



SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

ST. JOSEPH'S COLLEGE OF ENGINEERING

OLD MAMMALLAPURAM ROAD, CHENNAI

600119

www.stjosephs.ac.in

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

April 2019

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

St. Joseph's College of Engineering was established in the year 1994 with a vision and mission of imparting quality technical education to the students and maintaining higher standards in the field of engineering education and celebrates its silver jubilee this year. St. Joseph's College Engineering located OMR, Chennai – 119. The Institution is approved by the Government of Tamil Nadu and All India Council for Technical Education, New Delhi and is affiliated to Anna University, Chennai. At the time of inception the Institution offered 3 UG programs with an Intake of 180 students. Right now the institution offers 21 programs of study with 10 at UG level with intake of 1320 students, 9 at PG (Engg) level with intake of 162 students and 2 MBA courses with intake of 180.

Our college has gained high reputation in the society over the past two decades through academic excellence testified by the number of university ranks secured by the students year after year. Since its inception our college has bagged **1348** university ranks which include **57** gold medals and **49** silver medals.

Five departments (CSE,ECE, EEE, MECH, BIO) of our college are recognized as research centers by Anna University and **40** faculty members are recognized as research supervisors by Anna University. **81** research scholars from various institutes are carrying out their doctoral research under the supervision of our faculty members. Our institution is recognized as a Scientific and Industrial Research Organization by DSIR and DST.

Our college has been listed by NIRF, MHRD Government of India since 2017.

Nine of our UG engineering courses are accredited by NBA continuously since 2003

Vision

To become a world class educational centre of the nation for Engineering, Technology, Computer Applications and Management, with high moral and professional standards to serve community at large.

Mission

- To achieve academic excellence in Engineering, Technology, Computer applications and Management education.
- To inculcate high morale and professional standards among our students.
- To develop overall personality of the students.
- To promote industry institute interaction through more number of collaborative programs with Industries/ Research and Development centres.
- To venture for sustained placements for our students through campus interviews.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- St. Joseph's College of Engineering is in its 25th year of educational service.
- St. Joseph's is enriched with a passionate team of teaching Faculty from good academic backgrounds and relevant industrial verticals, with expert domain knowledge and experience.
- 132 Faculty members with Doctoral Degree.
- 64 Faculty members pursuing Doctoral research.
- Scopus Index of 29 for the research publications made in the institution.
- **19** INAE Innovative Student Project Awards were bagged by our students since 2005 for their innovative final year projects.
- Since inception of the college, our students have bagged **1348** university ranks out of which **57** are Gold medals and **49** are silver medals.
- Bagged Anna University IPR excellence Award in 2016 for the years 2010-15.
- Our college has very good infrastructure to support the needs of research and good computational facilities with latest software.
- Five departments are recognized as Research centers by Anna University.
- Our college library has **47454** books on **13591** titles.
- We have subscribed to **211 IEEE** and **393 Elsevier Science Direct** e-journals besides **144** hard copies of Indian Journals.
- we are having book bank housing **178552** books on **13241** titles.
- We are having **1240** personal computers (782 are with i5 configuration) and dedicated internet lease lines with **215Mbps**
- Placement and training cell offers training to students for placement and competitive examinations spread over throughout the course study.
- Advisory Bureau for higher studies provides guidance to secure admissions for higher studies in India and abroad.

Institutional Weakness

- Consultancy activities need improvement.
- Technology incubators are to be established.
- Difficulty to attract sizeable research funds from the Government funding agencies being a self-financing private college.
- More number of GATE qualified students to be attracted for PG programme admission.

Institutional Opportunity

- Eligible to become autonomous institution, so that industry oriented syllabus can be implemented.
- Located on OMR, Chennai, where many software industries are situated. So that Industry and Institute interaction can be improved.
- Having proximity of premier institutions like IIT – Madars, Anna University, IIIT- Kanchipuram, so that more collaborative research work can be carried out.
- Leverage on strong alumni to enhance the placements collaborative research.

Institutional Challenge

- To produce 100% success rate
- To attract more core companies for non computer science students for campus placement
- To organize international seminars / conferences
- Matching industrial requirements while maintaining requirements and norms of affiliating university.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

- Our institute follows the curriculum developed by the affiliating University. 5 of our faculty do play a role in designing the curriculum as members of Board of Studies and Academic Council of affiliating university.
- The college offers 21 programs (10UG & 11PG programs) with CBCS, wherein most of the courses are accredited by NBA. The students also have the flexibility to choose electives across departments.
- Academic calendar is prepared before the start of the academic year which includes curricular, co-curricular and extra-curricular activities and schedule for NPTEL lectures. Allotment of subjects including open electives is done by the HOD based on the faculty expertise and the preferences obtained from them.
- Detailed lesson plan is prepared by the staff focusing on outcome based education and Bloom's taxonomy. For each course, a question bank/laboratory manual is prepared which is scrutinised at Department level and then approved by the academic council and distributed to the students.
- Teaching aids such as projectors, ICT class rooms are used to support regular class room lectures.
- Based on the student performance in internal assessment, remedial classes are conducted for slow learners. Advanced learners are encouraged to give seminars and do mini projects and are allowed to undergo their eighth semester electives in sixth/seven semester itself.
- In order to bridge the gap between curriculum and industrial needs the following steps carried out in last 5 academic years.
 - 140 certificate courses
 - 519 industrial visits
 - 296 guest lectures
- In this academic year, 1748 students have taken up internship/external projects at different organizations.
- Various activities to support human values, environment and sustainability and gender sensitisation are organized by departments to enhance and hone individual talents and ensure overall development of the student.
- In order to be responsive to the quality needs, a comprehensive feedback is collected from stake holders which include development aspects of curriculum, course delivery, faculty, infrastructural facilities, laboratories, etc. Suitable corrective measures are taken based on analysis of the feedback. Curriculum gaps if any are identified and these gaps are filled by conducting value added courses, workshops, seminars and industrial visits etc.

Teaching-learning and Evaluation

The admission to UG programmes in our college is by Single Window Admission System through Directorate of Technical Education, and Consortium (Consortium of Self Financing Professional, Arts and Science Colleges in Tamilnadu) and for PG courses by Anna University through Tamil Nadu Common Entrance Test

and Consortium. Student enrolment for the last five years is 99.85% against sanctioned intake.

Several initiatives have been taken to address needy students such as bridge courses, remedial classes and computer programming courses during first semester. Institution encourages teachers to use innovative pedagogies of teaching and learning with ICT tools for teaching.

Strong mentoring system with the faculty student ratio of 1:20 has been followed. Currently college has dedicated highly qualified faculty members comprising of 40% of Doctorate and 21% pursuing Doctoral degree. The average faculty retention ratio is 9.58 years during last five years.

Our college follows 'Outcome Based Education' to develop the requisite knowledge, skills of the students. Various supplemental instructional methods such as smart classes, demonstration classes, PPT, etc., have been utilized along with the regular teaching-learning practice to develop the critical and analytical ability of the students. Every semester industrial visits, Guest lectures and value added courses are arranged to get practical exposure and enhance their knowledge

Program outcomes, Program specific outcomes and course outcomes for all programmes are communicated to all stakeholders by Email, Website, Notice Boards, Question bank, and Lab Manual etc. The attainments of Course Outcomes are measured by direct and indirect assessment tools. The preparation of question bank, lab manual and internal assessment question paper generations follows blooms taxonomy.

The students are assessed by continuous assessment through internal assessment examination with the weightage of 20% and the end semester examination with 80% weightage

Overall assessment of learning is made through

- Unit wise internal assessment examinations and Model examination.
- Model examination for practical subjects.
- Quiz, problem solving exercise - cognitive learning
- Project and model development - applied learning

Students are provided with feedback for the above assesment of learning in view of improving their performance.

Research, Innovations and Extension

Our institution has good infrastructure with research laboratories and computational facilities to carry out research and development activities. Five of our departments are recognized as research center and 40 faculty members are recognized as research supervisors by affiliating university. Under their guidance and supervision 52 candidates have completed their Ph.D and 87 are pursuing Ph.D. The college library has good collection of rare books, 144 subscription for hard copies and 712 e-journals to facilitate research.

Our institution is recognised as a Scientific Industrial Research Organization by DST, Government of India.

In the last 5 years, our faculty have received sponsored research projects worth of Rs.69,89,630 from various funding agencies such as DST, DBT, AICTE, Tamil Nadu state Council for Science and Technology CTS etc.. Our faculty are financially supported up to Rs.1 Lakh per department to present research work in national

and international conferences.

Our institution has Scopus h-Index of 29. Our faculty have published 386 research papers in UGC/Web of Science journals during last five years and 5 books 52 book chapters in reputed publishers. .

In the last 5 years, our institution has organized 40 workshops/seminars towards Industry-Academia innovative practices and Intellectual Property Rights. An IPR cell is established to guide our faculty for patent filing and so far 19 patents have been filed. The Institution has a stated code of ethics to check malpractices and plagiarism in research. Our research supervisors have unrestricted access to “Ürkund” to check plagiarism.

The institution encourages promotion of community services through setting-up of various forums. In the past 5 years, 705 extension and outreach programs were conducted through NSS, YRC etc.

Over the span of last 5 years, our institution has 735 collaborative works in the form of internship, field-trip and research activities through department collaborations with industries and professional bodies. Our institution has signed MOUs with 48 organizations which spread an ecosystem for innovation and other initiatives for creation and transfer of knowledge.

Infrastructure and Learning Resources

Campus Infrastructure

The institute has a sprawling campus spread over 28.16 acres with modern buildings, technology-enabled classrooms, well equipped laboratories, Faculty rooms, Seminar, Tutorial , Conference halls, Examination cell, Restrooms. The administrative block houses offices for Chairman, Managing Director, Director and Principal, Board meeting hall and Conference hall etc.

The student support facilities such as Reprographic, Co-operative store, ATMs, Seperate centres with doctor and nurse for Counseling and Medical facility for boys and girls, Spacious hostels, Guest rooms, Canteens, Intercom facilities, Gymnasiums, Indoor auditoriums, Spacious play fields for outdoor and indoor games are available in the campus.

Guaranteed, un-interrupted power supply through generator sets with total installed capacity of 1450 KVA are provided for the campus needs. RO treated purified drinking water is supplied to staff and students. Special facilities such as Ramps, exclusive restrooms are provided to assist students with physical disabilities.

Library as a Learning Resource

Computerized, fully air-conditioned central library houses 47,454 volumes of books and 152 National Journals, 712 online journals from IEEE-IEL and Science direct and huge repository of NPTEL videos. Access to MALIBNET and DELNET Library Networks are also available for the staff and students. The separate Book bank with 13,223 titles of text books is available for students, which can be retained for the whole semester. An exclusive language lab with 120 computers and internet facility is available for the students to conduct courses for their ianguage skills enhancement

ICT Infrastructure

The college is equipped with 1340 high configuration internet connected computers. Servers with high end configuration with latest software are deployed in all computer labs. A dedicated lease line of 215 Mbps bandwidth with Wi-Fi networking is being offered. E-content development center and ICT enabled seminar halls available in the college help the faculty to deliver ICT enabled lectures.

Maintenance of Infrastructure

Standardized, well established procedures are implemented for the routine upkeep of the infrastructural facilities. Various maintenance committees that are headed by HODs have been constituted which submits periodical reports on stock verification and maintenance in every year. Based on the recommendations of the committee, provision is made in annual budget.

Student Support and Progression

Our institution provides a number of Student support activities for academic excellence and overall development of the students.

Every year about 1800 students avail various State and Central government scholarships and fee waiver benefits.

Support is extended to the students to face competitive examinations. Students, who opt to continue their education, are offered guidance to study in India and abroad through the Advisory Bureau for Higher Studies (ABHS). Every year 1500 students are benefitted in getting prepared for competitive examinations and 900 students undergo Business English Certification training program.

Placement training programs are planned systematically and conducted throughout the course of study for the students to excel and be ahead in the competitive environment. About 70% of students are getting placed in different companies every year through campus placement.

Guidance is given to advanced learners by the concerned teachers to better the performance. Their performance in curricular, co-curricular and extra-curricular activities is also motivated. Special attention is paid to slow learners by conducting remedial classes. They are also encouraged, motivated personally and academically counselled.

The Students' Counselling & Grievance Redressal Committee has a transparent mechanism for timely redressal of grievances. Ragging is totally prohibited in the institution and measures are taken to curb the ragging through anti-ragging cell.

The students actively participate in technical events organized by 21 student chapters of professional societies namely IEEE, SAE, CSI, ISTE, IWS, ISHRE, OSA, BRSI, ISA, IChemE etc. Symposium and cultural competitions are organized for students to compete with department peers, identify their talents and enhance their soft skills. Every year an average of 1200 students of our college win prizes in co-curricular and extra-curricular events that are conducted in various institutions at national level.

The Institution encourages and motivates students who are interested in sports by organizing Intramural sports meet every year. The college has a good representation at various levels in sports events: International -2, National-18 and University-46 for the current year.

The distinguished alumni are a strong support to the institution. The alumni association actively contributes towards academic growth by delivering guest lectures, webinars, and workshop throughout the year.

Governance, Leadership and Management

Our Institution provides quality technical education with strong fundamentals and moral standards that enable students to excel in their respective field of study. The leadership of the institute believes in participative management and strives to bring excellence by structured organizational system with the involvement of all the stakeholders. All vital decisions regarding the commencement of new courses, expansion of infrastructure, formulation and promulgating of strategy are approved by the Chairman. The implementation process is further discussed with the Principal and Heads of the departments for execution.

The Institution has implemented e-governance in the following areas to make the process simple, accountable, transparent and better reach.

- administration (college web portal, Bio-Metric attendance salary disbursement)
- examination (generation of question papers for internal assessments, result analysis),
- library (Mylib)
- student support (skill rack, cocubes, mysplate)

The institution has effective welfare measures for teaching and non-teaching staff. Facilities such as medical allowances, free transport and mess, marriage and house warming gifts are provided. All non-teaching staff are provided with 3 sets of uniform.

Institute has systematic performance appraisal system to assess and review the performance of teaching and non-teaching staff

Faculty development programs are conducted for enhancing technical knowledge. Skill enhancement programs are also organized for technical and administrative staff members. A total of 94 programs were organized and 660 were attended in the last five years. The Institute provides adequate financial support to the staff for professional development, R&D activities, attending conferences, workshops, publications.

The institution mobilizes the funds through the student fees. The institute makes budgetary provision for recurring and nonrecurring expenditure in advance. As per the budget, financial resources are made available for the effective functioning of the college. A well-defined mechanism prevails to monitor the usage of funds.

The Institution has an active Internal Quality Assurance Cell .The compliance of academic and administrative procedures and their continual improvement is ensured through systematic audit by IQAC. The internal and external members review the academic and support systems to improve the quality of the overall functioning of the institute.

Institutional Values and Best Practices

St. Joseph's College of Engineering is responsive to the emerging challenges and pressing issues such as gender equity, environmental sustainability and professional ethics etc.

Institutional Values

A gender friendly environment of our campus builds harmonious relations between boys and girls and respect for each other. The academic ambience of the college addressed 32 gender equity promotion programs in last five years and ensures gender sensitivity in providing facilities such as safety and security on the campus, student's counseling and Redressal actions.

The college is also conscious of imbibing Social Responsibilities like climate change and environmental issues through our Institutional core values. Our green practices include alternate and renewable energy sources like Solar electricity which contributes 1.17% of total power requirement and 5.28% of annual lighting power met by LED light sources in addition to waste management measures such as minimal usage of plastic, solid/liquid waste management, e-waste management, Rain Water Harvesting etc. The institution also facilitates the differently abled, by providing special infrastructure such as ramp for wheel chairs, designated rest rooms etc.

Our campus is highly benefited by locational advantage of being in IT corridor through 75% of placements, getting resources for educational visits and other academic events. It also offers benefit to local community by conducting 34 techno-social services through NSS and YRC units. Our college offers true spirit of education with no discrimination against caste, creed and religion by consistently celebrating all religious festivals with equal importance.

Institutional Best Practices

Many result oriented practices and need based placement support measures that are developed internally resulted in remarkable increase of placements in terms of quality and number. Its innovative student support activities catalyses for Co-scholastic achievements and to emerge into all-round professionals.

Institutional Distinctiveness

St. Joseph's is recognized for its academic excellence and overall personality development. We focus greater emphasis on imparting engineering education with a sense of self-discipline and accountability among budding professionals which are all explicit in its regular activities. By all these virtues of practices, our college stands forefront from all other institutions.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	ST. JOSEPH'S COLLEGE OF ENGINEERING
Address	Old Mammallapuram road, Chennai
City	CHENNAI
State	Tamil Nadu
Pin	600119
Website	www.stjosephs.ac.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Professor	B. Parvathava rthini	044-24503238	9444130284	044-2450862	research@stjosephs.ac.in
Principal	SESHAGIRI RAO VADDI	044-24503237	9444069916	044-24500861	principal@stjosephs.ac.in

Status of the Institution	
Institution Status	Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	Yes MINORITY STATUS CERTIFICATE.pdf
If Yes, Specify minority status	
Religious	Christian
Linguistic	
Any Other	

Establishment Details				
Date of establishment of the college	01-01-1994			
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	04-04-2018	12	

Details of autonomy	
Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	Yes autonomydoc_1551847789.pdf
If yes, has the College applied for availing the autonomous status?	Yes

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	Old Mammallapuram road, Chennai	Urban	28.16	132662

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,Computer Science And Engineering	48	Plus Two	English	180	180
UG	BE,Electronics And Communication Engineering	48	Plus Two	English	180	180
UG	BE,Electrical And Electronics Engineering	48	Plus Two	English	180	159
UG	BE,Mechanical Engineering	48	Plus Two	English	180	180
UG	BE,Civil Engineering	48	Plus Two	English	60	60
UG	BE,Instrumentation And Control Engineering	48	Plus Two	English	60	19
UG	BE,Electronics And Instrumentation Engineering	48	Plus Two	English	180	111
UG	BTech,Chemical Engineering	48	Plus Two	English	60	60
UG	BTech,Bio Technology	48	Plus Two	English	60	54
UG	BTech,Information Technology	48	Plus Two	English	180	180
PG	ME,Computer Science And	24	B.E.B.Tech	English	18	4

	Engineering					
PG	ME,Electronics And Communication Engineering	24	B.E. B.Tech	English	18	1
PG	ME,Electrical And Electronics Engineering	24	B.E. B.Tech	English	18	2
PG	ME,Electrical And Electronics Engineering	24	B.E. B.Tech	English	18	1
PG	ME,Mechanical Engineering	24	B.E. B.Tech	English	18	2
PG	ME,Instrumentation And Control Engineering	24	B.E. B. Tech	English	18	5
PG	ME,Electronics And Instrumentation Engineering	24	B.E. B.Tech	English	18	3
PG	Mtech,Bio Technology	24	B.E. B.Tech	English	18	9
PG	ME,Information Technology	24	B.E. B.Tech	English	18	1
PG	MBA,Master Of Business Administration	24	UG	English	120	119
PG	MBA,Master Of Business Administration	60	PLUS TWO	English	60	39

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	40				63				206			
Recruited	20	20	0	40	31	32	0	63	97	109	0	206
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	3				18				1			
Recruited	2	1	0	3	9	9	0	18	1	0	0	1
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				83
Recruited	71	12	0	83
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				76
Recruited	71	5	0	76
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				64
Recruited	60	4	0	64
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				0
Recruited	0	0	0	0
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.	23	20	0	31	36	0	12	8	0	130
M.Phil.	0	0	0	1	0	0	9	10	0	20
PG	0	0	0	8	5	0	77	91	0	181

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
PG	Male	138	1	0	0	139
	Female	162	3	0	0	165
	Others	0	0	0	0	0
UG	Male	3419	78	0	11	3508
	Female	1794	39	0	8	1841
	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	82	78	75	88
	Female	40	63	68	59
	Others	0	0	0	0
ST	Male	2	6	4	3
	Female	0	2	1	1
	Others	0	0	0	0
OBC	Male	666	685	630	663
	Female	379	432	410	448
	Others	0	0	0	0
General	Male	206	217	254	222
	Female	118	120	152	128
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		1493	1603	1594	1612

3. Extended Profile

3.1 Program

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

Response: 21

File Description	Document
Institutional Data in Prescribed Format	View Document

Number of programs offered year-wise for last five years

2017-18	2016-17	2015-16	2014-15	2013-14
21	20	20	19	18

3.2 Students

Number of students year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
6048	6004	5892	5539	5227

File Description	Document
Institutional Data in Prescribed Format	View Document

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

2017-18	2016-17	2015-16	2014-15	2013-14
668	666	644	585	473

File Description	Document
Institutional data in prescribed format	View Document

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

2017-18	2016-17	2015-16	2014-15	2013-14
1318	1211	1212	1103	1103

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

2017-18	2016-17	2015-16	2014-15	2013-14
392	379	360	327	303

File Description	Document
Institutional Data in Prescribed Format	View Document

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

2017-18	2016-17	2015-16	2014-15	2013-14
392	379	360	327	303

File Description	Document
Institutional data in prescribed format	View Document

3.4 Institution

Total number of classrooms and seminar halls

Response: 153

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

2017-18	2016-17	2015-16	2014-15	2013-14
645.56	597.76	533.91	613.01	632.32

Number of computers

Response: 1340

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:

Effective curriculum delivery is carried out in the Institution through a well-documented approach.

- In accordance with academic schedules given by the university an Academic Calendar encompassing working days schedule, internal assessment examinations, guest lectures, Industrial visits value added courses etc., is prepared every semester.
- Allocation of subjects to the faculty members is done after careful consideration of their subject expertise besides their choice
- Course study material such as lecture notes, question bank, lab manuals are prepared by the allotted faculty members focusing on the outcome based education and Bloom's Taxonomy. These materials are uploaded in the students' portal for their reference. The details of uploading are recorded by the departments and periodically monitored by the Principal. Hard copies of question bank and lab manual are also provided to the students.
- Time tables are prepared in advance every semester for theory, tutorial and practical classes based on the, credits as per the curriculum.
- A Comprehensive lesson plan showing the hourly plan of course delivery is prepared for all the subjects by the allotted faculty members.
- The quality of course delivery by the faculty members are periodically monitored by getting feedback from the students through Class Monitoring Committee (CMC) and Head of the Department.
- Unit wise syllabus coverage and deviations from the lesson plan will be periodically reviewed by the Head of the Department and are addressed suitably. A similar procedure is followed for practical classes too.
- Special classes are arranged in the event of any loss of working days or in cases students requiring more practice.
- In order to complement the class room lectures, NPTEL (National Programme on Technology Enhanced Learning) Video lecture sessions, model based learning and additional assignments relevant to the subjects are provided to the students.
- To supplement the curricular gaps in the past five years, 296 Guest lecture on topics covering recent trends were arranged with experts drawn from academia and industry, 140 courses for value addition related to the subjects are conducted to the students to facilitate hands on experience on concepts learnt in the class room sessions, 519 Industrial visits were arranged for the students to gain exposure to practical aspects of the concepts learnt in the class rooms and current industrial practices.
- Effectiveness of course delivery is ascertained also through the performance of students in Internal Assessment Examinations besides a comprehensive model examination.
- After each internal assessment examination, a periodic meeting is conducted in the Department with the faculty members to assess the level of understanding of the students on the topics covered.

- Special coaching is provided for the slow learners identified through the above process.
- These steps are followed periodically during every semester to ensure an effective curriculum delivery.

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

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

Response: 137

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

2017-18	2016-17	2015-16	2014-15	2013-14
30	46	27	19	15

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

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

Response: 2.56

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

2017-18	2016-17	2015-16	2014-15	2013-14
1	5	1	1	1

File Description	Document
Details of participation of teachers in various bodies	View Document
Any additional information	View Document

1.2 Academic Flexibility

<p>1.2.1 Percentage of new Courses introduced out of the total number of courses across all Programs offered during last five years</p> <p>Response: 23.81</p>	
<p>1.2.1.1 How many new courses are introduced within the last five years</p> <p>Response: 5</p>	
File Description	Document
Minutes of relevant Academic Council/BOS meetings.	View Document
Details of the new courses introduced	View Document
Any additional information	View Document
<p>1.2.2 Percentage of programs in which Choice Based Credit System (CBCS)/Elective course system has been implemented</p> <p>Response: 100</p>	
<p>1.2.2.1 Number of programs in which CBCS/ Elective course system implemented.</p> <p>Response: 21</p>	
File Description	Document
Name of the programs in which CBCS is implemented	View Document
Minutes of relevant Academic Council/BOS meetings.	View Document
Any additional information	View Document
<p>1.2.3 Average percentage of students enrolled in subject related Certificate/ Diploma programs/Add-on programs as against the total number of students during the last five years</p> <p>Response: 31.07</p>	

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

2017-18	2016-17	2015-16	2014-15	2013-14
1769	2646	2516	1626	520

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

1.3 Curriculum Enrichment

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

Response:

The Institution, has taken up many initiatives over the years which has provided a platform to integrate cross- cutting issues relevant to Gender sensitization, Environment and Sustainability and Professional Ethics into the Curriculum.

Gender Sensitization

As a co-educational institute, measures towards gender sensitization in terms of equality are taken for both the genders in all aspects.

- The increasing trend in girl student admission over the years proves the fact that our college atmosphere is highly preferred and conducive for female students.
- In every co-curricular and extra- curricular activity, both boys and girls teams are formed and given equal opportunity.
- **Women's Day** is celebrated with enlightening lectures and activities.
- A lecture on **PCOD and related issues** was arranged.
- **Computer awareness Campaign** is conducted by our college which has enabled computer literacy of rural school girls.
- A vibrant **IEEE society for "Women in Engineering"** functions, wherein activities for women engineers is organized since 2015.

Human Values

- All the **students visit old age homes, homes for destitute children, etc.**, once in a semester. In addition to the food provided by the college during their visit, the students also voluntarily contribute for several basic needs of the inmates. Participation of students in these activities

inculcates the social responsibility. This gesture creates a feeling of empathy towards the under privileged.

- A **NSS unit comprising boys and girls wing of 100 students** performs social service activity by adopting a village every year.
- Student's volunteers of the **YRC** extend their service by arranging blood donation for the needy people.
- Training for **Fire safety measures and precautions** is conducted every year in the college .

Environment and Sustainability

- The curriculum includes elective subjects like “**Environmental Sciences and Engineering – GE 8291**”, **Municipal Solid Waste Management ,EN6501, Traffic Engineering and Management, CE6006** to provide in-depth knowledge about environment protection and sustainability.
- Short term courses that enhance and inculcate remedial practices for issues on environment and sustainability are conducted. Few courses conducted in the past five years are:

Solar photovoltaic system design

Animal Handling Techniques

Hazard Analysis and Critical Control Points: Principles in Food Safety

Management System

- Most of the communications are done through **e – mails, SMS and posting in web portal to ensure a paper less environment**
- The **ECO-SOC** club conducts events which educate the students about the social, economic and political issues globally since 2014.
- **Activities of the Entrepreneur Development cell, Google groups, Quiz club, Tamil Club, Maths club, English club and events of the annual cultural fest** conducted every year highlights the current environmental and social issues.

Professional Ethics

- The young minds of the students are tuned to maintain high standards by the **professional code of conduct maintained within the campus.**
- Ethical practices such as **not indulging any malpractice, maintaining Ragging free environment** are ensured.
- The university curriculum includes an elective subject titled “**Professional Ethics in Engineering – GE8076**” which inculcates ethical standards required in engineers.
- Workshops on **Ethical Hacking and Cyber Security** are periodically conducted to cultivate ethical approaches in the work environment.

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

1.3.2 Number of value added courses imparting transferable and life skills offered during the last five years**Response:** 49

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

Response: 49

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

1.3.3 Percentage of students undertaking field projects / internships**Response:** 27.65

1.3.3.1 Number of students undertaking field projects or internships

Response: 1672

File Description	Document
List of students enrolled	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document

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

Response: A.Any 4 of the above

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

1.4.2 Feedback processes of the institution may be classified as follows:

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

B. Feedback collected, analysed and action has been taken

C. Feedback collected and analysed

D. Feedback collected

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

File Description	Document
Any additional information	View Document
URL for feedback report	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

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

Response: 3.88

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

2017-18	2016-17	2015-16	2014-15	2013-14
190	209	229	231	247

File Description

Document

List of students (other states and countries)

[View Document](#)

Institutional data in prescribed format

[View Document](#)

Any additional information

[View Document](#)

2.1.2 Average Enrollment percentage (Average of last five years)

Response: 99.85

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

2017-18	2016-17	2015-16	2014-15	2013-14
1493	1603	1594	1612	1461

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

2017-18	2016-17	2015-16	2014-15	2013-14
1662	1602	1602	1524	1404

File Description

Document

Institutional data in prescribed format

[View Document](#)

Any additional information

[View Document](#)

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

Response: 88.17

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

2017-18	2016-17	2015-16	2014-15	2013-14
528	582	562	542	447

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

2.2 Catering to Student Diversity

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

Response:

To start with their academics, they are initially provided with Bridge courses to freshen up the concepts in Physics, Chemistry and Mathematics. Special Computer Programming courses are given for students particularly from Biology group during their higher secondary education to cope up with the programming and software related courses in the upcoming semesters. To overcome all disputes and barriers in communication, communication skills course is given at the start of first year itself.

Initially all the coaching classes are given common to all the students. After being monitored in terms of performances in their Internal Assessment Examinations, Model Exam and First Semester University Examinations, they are categorized as advanced learners and slow learners.

When it comes to the lateral entry students, they have patch up courses for all the subjects in third semester and particularly Mathematics coaching classes as they are deficient in concepts of Engineering Mathematics – I and Engineering Mathematics - II.

Apart from regular classes the slow learners are given additional coaching during exams and special coaching during their semester study holidays for courses including their lower semester arrear courses.

Adding to these regular practices, we have a system called mentoring, where each faculty is attached with some 10-15 students, who maintains a record of those students performance in their Examinations along with biodata and continuously monitors them and keep track of their growth. More than mentors, we also have Domain in-charges for Advanced, Average and Slow Learners who are the motivational vibes such

that the slow learners are motivated to shine in academics and get through without any back logs; the average learners are motivated to score higher grades; the advanced learners are motivated to get University Ranks and think beyond their curriculum.

We also have semester starting meeting for every semester called orientation program explaining the semester's need, expectation and various training programs and courses involved in that semester. At the Closing of the semester, HOD along with the Advisory Board Members meet the students motivate them for their University Examinations.

For the advanced learners, Student clubs, Student chapters like IEEE with 500 members and societies like Computer society, OSA, Robotics and automation society, Power electronics society and various others, enable students to innovate and participate in various competitive events. Competent students are fully sponsored to carry out innovative socially relevant projects in competitions like Hackathn (12 problems are addressed and received cash prize of worth Rs.6 lakhs), INAE (5 awards received), Coaching classes for competitive exams such as GATE,GRE,TOEFL,CAT (364 students are benefited), Defense and Civil service Examinations (1577 students are benefited) are provided during the last five years. They undertake special placement drive training by recruiters themselves and other leading training organizations every year. Workshops on real-time concepts are conducted as per their interest and need. In addition Seminars and guest lectures are conducted regularly in their concern field of interest, equipping them with sound knowledge and keep in track of the trend in technology.

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

2.2.2 Student - Full time teacher ratio

Response: 15.43

File Description	Document
Any additional information	View Document

2.2.3 Percentage of differently abled students (Divyangjan) on rolls

Response: 0.03

2.2.3.1 Number of differently abled students on rolls

Response: 02

File Description	Document
List of students(differently abled)	View Document
Institutional data in prescribed format	View Document
Any other document submitted by the Institution to a Government agency giving this information	View 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 takes efforts to make teaching learning process students centric by adopting various suitable learning methodologies.

Students are made to have experiential learning partly through curriculum itself by imparting practical sessions in laboratory courses besides end semester project work. Apart from this, students are encouraged to make models to consolidate their learning in the class room. Students in pre-final year made to carry out mini-projects to have more experiential learning. In addition value added courses are arranged with industrial experts to give hands on exposure to the latest technologies. Every semester students are taken for Industrial visits in the relevant companies to gain exposure to industrial practices.

Student centric participative learning methods include presentation of Technical seminars by students on topics related to curricula and working towards innovative project awards at State and National level. Projects carried out by the students are scrutinized at department level and shortlisted to be nominated for best project awards. In addition to this students involve themselves in making working models and exhibits to be showcased during inter-collegiate symposia. Our institution has student's chapters namely SAE, ISHARE, ASHRAE, IEEE, ISTE, OSA, BRSI, ICI, CSI and IWS with 13 professional societies which facilitate students to participate in project contest involving hands on learning.

Tutorial classes form part of the course delivery to inculcate problem solving skills among the students to supplement regular teaching learning process. Laboratories are well equipped with internet facility which enables students to self-learn and widen their learning skills through problem solving.

The problem solving ability is further honed by incorporating questions on case studies in the internal assessment examinations. In addition students participate in National level competitions such as Smart India Hackathon contest where 12 problems are addressed and received cash prize of worth Rs.6 lakhs , AICTE Chathra Viswakarma awards (2 awards), DRDO (1 award), MSME certified trainings, various competitions conducted by companies Titan, Nokia, Cognizant, Amazon, etc.

The students register for online NPTEL Certificate courses (around 1000 students are registered) so that they can gain knowledge in addition to their regular curriculum. Students are also encouraged to do coding

in E-box portal and Aptitude in Skill rack portal.

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

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

Response: 65.56

2.3.2.1 Number of teachers using ICT

Response: 257

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

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

Response: 13.38

2.3.3.1 Number of mentors

Response: 452

File Description	Document
Any additional information	View Document

2.3.4 Innovation and creativity in teaching-learning

Response:

The applicability and adoptability of innovative and creative methods of Teaching-Learning process has high potential value in improving education, empowering employability and achieving goals of human that contribute to the nation development. Apart from the conventional method of teaching which includes 'chalk and talk', the current and next generation students expect innovative methods of teaching such as multimedia learning process, problem based learning and usage of various multimedia tools for better understanding.

The innovative and creative method of teaching processes highly focuses on attaining the course outcomes and to surge, the students in the right direction to empower themselves and the nation. Various supplemental teaching-learning methods such as smart classes, demonstration classes, PowerPoint presentations, etc., has been utilized along with the regular teaching-learning practice to develop the critical and analytical ability of the students.

Model and Chart presentations are encouraged to enhance the basic understanding of the students in the particular discipline/field area. The contribution of each student is motivated to improve rational interpretations. The students are encouraged to participate as well as to organize various workshops, conferences, and technical symposiums to extend their knowledge and to impart the leadership qualities in the students. Soft skill training and communication proficiency tests are regularly conducted during odd and even semesters to improve the analytical and reasoning efficiency of the students.

Over 300 Guest lecturers / invited speech are organized to extend the student's knowledge beyond the curriculum. Demo classes and practical oriented classes/hands on training are arranged to strengthen the practical knowledge of the students along with the theoretical knowledge. Other teaching-learning methods such as Group discussions, Jigsaw discussions and Debates are conducted to actively engage the students to analyse the pros and cons of every field of study. Role plays on divergent techniques or process are reproduced by the students on the verge to explore every segment in the techniques/process. E-learning and self- learning process is encouraged within the student group, apart from the other technical methods to develop the self- analysis during the study.

More than 300 subjects of NPTEL lecture notes & videos, 56 technical magazines and 600 online journals are made available to the student society to understand and enlarge their ideas towards the current technical and global affairs. The students are also allowed to carry out mini- and major projects as a part of their academic activities. The students are supported to develop innovative as well as creative materials for the global economy need.

An average of 30 industrial visits per semester is arranged and 175 value added courses are arranged during last five years for the students to extend their knowledge towards the technological activities carried out within the industries. Two-way conversations are preferred to build the students teacher relationship to enhance active learning process.

File Description	Document
Any additional information	View Document

2.4 Teacher Profile and Quality

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

Response: 100

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

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

Response: 24.59

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

2017-18	2016-17	2015-16	2014-15	2013-14
125	102	87	67	59

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

2.4.3 Teaching experience per full time teacher in number of years

Response: 9.58

2.4.3.1 Total experience of full-time teachers

Response: 3756

File Description	Document
Any additional information	View Document

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

Response: 9.94

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

2017-18	2016-17	2015-16	2014-15	2013-14
18	7	3	4	3

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

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

Response: 3.01

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

2017-18	2016-17	2015-16	2014-15	2013-14
9	10	10	11	12

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

2.5 Evaluation Process and Reforms

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

Response:

- **The college has an exclusive Examination Cell** headed by a Professor as Controller for overseeing the conduct of all the internal and end-semester examinations. The Controller is assisted by a team consisting of an Assistant Controller, Office Assistants, Computer Programmers, Data Entry Operators and other attenders.
- Students are evaluated based on their performance in Continuous Internal Assessment (CIA) and End-Semester Examinations.
- Internal Assessment Exams, Assignments with mini-projects, Seminar and Attendance are the various components of the CIA.
- **The students are kept informed of the evaluation processes**, attendance requirements as well as

the grading systems for the internal assessments **during orientation program** at the beginning of each semester, by the department.

- An **academic schedule** is prepared in tandem with the University, which provides information on the examination dates for continuous internal assessment and the same is e-circulated among students and parents so that students can plan their course of action accordingly.
- **Adaptation of Outcome Based Education Framework:**
 - Question bank is submitted to the Examination office in the prescribed format, for the **automatic generation of question paper**.
 - Question papers are set in line with the requirements of OBE with questions pulled from all levels of Blooms Taxonomy pyramid. The questions are also mapped with the relevant course outcomes stated for the respective courses.
 - On the day of assessment examination, a copy of generated question paper for each subject is verified by the subject teacher to confirm whether the above procedure is complied with besides checking for any discrepancies.
- **Central evaluation of answer-scripts** is conducted after each Continuous Internal Assessment Examination for ensuring consistent and reasonable evaluation. The evaluated answer-scripts are verified by the senior faculty members to ensure transparency and distributed back to the students within two days of examination.
- An **exclusive portal** is maintained by the Examination Cell for the purpose of entering and storing the assessment marks obtained by the students. The entries made in the portal are cross verified by the faculty members from other departments to check discrepancies. The students can view their marks in the portal using their login credentials.
- The performance of the students in internal assessments is monitored by the Principal and the necessary **feedback** is given to the concerned faculty members. **Review Meetings** are conducted by the heads of department after each assessment examination to assess the level of understanding of students in different subjects and for planning corrective actions. **Special Classes are conducted for the slow learners and absentees in the subsequent weeks.**
- **The whole internal assessment process is digitized such that students receive an SMS once the marks are entered online.** The department organizes a parent-teacher meet once, every semester, after the university results, where the parents are appraised about the performance of their wards.
- Students with grievances with regard to evaluation can apply for **reevaluation of their answer-scripts** after getting a **photocopy of their answer-scripts**. In case of further grievance even after reevaluation, the students can apply for **review** of the answer script.

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

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

Response:

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

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

Period	Portions of the Subjects	Method of Evaluation	Maximum Marks
Assessment Period – I	Unit I & II	<ul style="list-style-type: none"> • Internal Examination • Assignment • Seminar 	100
Assessment Period – II	Unit III & IV		100
Assessment Period - III	All Units (I- V)	<ul style="list-style-type: none"> • Internal Examination 	100

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

Assignments / Seminar Topics are given to be completed for each subject in turn once in a week. The seminar presentations by the students are aimed at improving communication, presentation and technical skills of the students.

For practical subjects, the performance of students is assessed periodically as follows:

Parameters / Type of Evaluation	Maximum Marks
Observation, Procedure, Design, Calculation and Presentation of Results & Graphs	10
Viva-voce at the end of each experiment	
Regularity of Submission of Record of work	
Model Practical Examination	10
Total Internal Assessment Marks	20

For Project Work, the performance of students is assessed periodically as follows:

Type of Evaluation	Parameters for Evaluation	Maximum Marks
Project Review – I	Problem Definition,	10
	Literature Review, Methodology	
Project Review – II	Extent of Simulation / Experimental work carried out	
Project Review – III	Presentation of Results & Conclusions	
Project Review – IV	Demonstration of Project Outcomes	10
Model Viva-Voce – I	Draft Report Submission	
Model Viva-Voce – II	Final Report Submission	

Total Internal Assessment Marks**20**

Once the examinations are conducted, the answer scripts of students are evaluated centrally, verified by the senior faculty to ensure transparency and distributed back to the students by the teachers within two days of examination. The faculty members discuss with the students the solutions to the all questions given in the examinations during the distribution of answer papers to help them understand their mistakes and note down the corrections. Thus the students are allowed to assess their own work and any modifications, if necessary in the award of marks are carried out. Suggestions are given to the students who need to improve and the ones who performed well are appreciated.

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

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

Response:

Response:

- Internal assessment examinations are conducted as per the academic calendar provided by the Institution. The Examination office prepares a timetable according to the academic calendar provided by the Institution and the examination office showcases it much prior to the commencement of exams which is mailed to both the staff and students..
- Every grievance at Institution level is clarified instantly. The institution continuously reviews the evaluation process done internally and implements the necessary changes as and when applicable/ required.
- The College has created a grievances redressal committee comprising of heads of the department for the academic Redressal of students' grievances.
- Internal assessment question paper feedback is given by the concerned subject teacher on the day of assessment before the examination for discrepancies and the answer Key is uploaded in the portal.
- To ensure timely needs of students during assessment examinations, frequent visits are made by the Controller of Examinations and various department HoDs.
- Scrutiny of answer scripts is done by the senior faculty and HOD to ensure fairness and transparency of the correction.
- Answer scripts are evaluated and distributed to the students within two days from the date of examination.
- Assessment marks are entered into the portal after the exams and the entries are cross verified by the other department faculties for corrections.
- The end semester examinations are conducted and controlled by the University and if students have any problem, the Principal communicates to the Controller of Exams of the University about the grievances of the students.
- The grievances of the students in external examination at university level are addressed through a proper channel by obtaining photocopies of the evaluated answer scripts, re-evaluation and

challenge evaluation by paying a prescribed university fee.

- University Question paper feedback is given to the University through proper channel, for the out of syllabus questions and discrepancies by the concerned faculty members.

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

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

Response:

- The academic calendar is prepared in line with the university schedule and displayed in the college portal. It includes the opening and closing dates of the classes of each semester, list of holidays, co-curricular activities and schedules of internal & end semester exams.
- Students are well informed about time table for internal assessment examination and the schedule for portal entry.
- Lesson plans are prepared based on academic calendar by the faculty members. The detailed lesson plan confirming to the syllabus is prepared by each faculty before the start of the semester.
- The lesson plan comprises of content, learning aids and methodology and course outcomes. It is duly reviewed and approved by the one of the senior faculties in the department and corrective actions are suggested by the head of the department whenever required. The lesson plan generally highlights the content and total lecture hours required for the completion of subject syllabus. It is covered within the dates mentioned in the lesson plan and is monitored by the HOD as well.
- Details of co-curricular activities such as industrial visits, guest lectures, value added courses, placement training, workshops, cultural, intramural sports are planned by the Department and the schedule for the same is displayed in each department notice board.

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

2.6 Student Performance and Learning Outcomes

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

Response:

St Joseph's College of Engineering offers 10 Under Graduate Programmes, 11 Post Graduate Programmes. Programmes offered are listed below:

UG PROGRAMMES

1. B.E. - Computer Science and Engineering
2. B.E. - Electronics and Communication Engineering
3. B.E. - Mechanical Engineering
4. B.E. - Electronics and Instrumentation Engineering
5. B.E. - Electrical and Electronics Engineering
6. B.E. - Instrumentation and Control Engineering
7. B.E. - Civil Engineering
8. B.Tech. - Information Technology
9. B.Tech. - Biotechnology
10. B.Tech. - Chemical Engineering

PG PROGRAMMES

1. M.E. - Power Electronics and Drives
2. M.E. - Power Systems
3. M.E. - Computer Science and Engineering
4. M.E. - Software Engineering
5. M.E. - Applied Electronics
6. M.E. - Control & Instrumentation Engineering
7. M.E. - Manufacturing Engineering
8. M.E. - Embedded Systems
9. M.Tech. - Biotechnology
10. M.B.A
11. M.B.A. - Integrated 5 Yrs

DISSEMINATION

The programme outcomes, programme specific outcomes and course outcomes of all the programmes are disseminated through following modes

- College website
- Department link of College website
- Orientation programs
- Display boards
- Department magazines
- HOD room
- Department notice boards
- Class rooms
- Faculty rooms
- Laboratories
- Among stakeholders through e-mails transactions
- Various functions such as:

1. Alumni meet
2. National and International conferences
3. Seminars
4. Workshops
5. Faculty Development Programs

Dissemination of PO, PSO & CO of the Department

S.No	Dissemination			Mode / Event
	To	By	Content	
1.	Students	Head of the Department	Course outcomes Programme Outcomes Programme Specific Outcomes	1) Opening day 2) Department 3) Lab Manual Question Ba
2	Parent	Head of the Department	Course outcomes Programme Outcomes Programme Specific Outcomes	1) Orientation 2) Department 3) Result Copi

				4) Department Magazine
3	Faculty members of the Department & Service Departments	Course Coordinator	Course outcomes Programme Outcomes Programme Specific Outcomes	1) Opening Faculty Meeting in Academic year 2) Department Meeting 3) Course Log 4) Academic Council
4	External Stake Holders	HOD Placement Officer	Course outcomes Programme Outcomes Programme Specific Outcomes	1) College Website 2) News Letter 3) Placement Report

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

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

Response:

Method of measuring attainment of POs , PSOs and COs

The effectiveness of the course outcomes have been justified with the help of Performances made by the student in Internal Assessment and End Semester University examination. The Internal Assessment includes Assessment Examination and Assignments. The end semester examination will be conducted by the university. The final grade of the course will be calculated considering, 20% weightage for Internal Assessment and 80% weightage for end semester performance as per Anna university regulations.

1. Direct Assessment Process

1.1 Internal Assessment for Theory course

(a) Assessments

In a semester three Assessments will be conducted

- Assessment - I – Units I & II (CO1 & CO2 – Each 50 marks)
- Assessment - II – Units III & IV (CO3 & CO4 – Each 50 marks)
- Assessment - III – All 5 units (CO1, CO2, CO3, CO4 & CO5 – Each 20 marks)

(b) Assignments

The students are asked to prepare and submit assignments, prior to Assessments. The assignment shall contain Key points, Neat diagrams, Derivations and Tables or plots.

S.No	Assessment	Marks	Weightage
1	Assessments	100*3	300
2	Assignments	60+60+80	200
Total			500
			converted to 100

(c) End Semester University examination:

The University exams are conducted by the Anna University for 100 marks as per the format given below:

Part – A (2 mark Questions)

$$10 * 2 = 20$$

Part – B (16 Mark Questions) includes Application/Design/Analysis/Evaluation/Creativity questions

$$16 * 5 = 80$$

$$\text{Total} = 20 + 80 = 100 \text{ marks}$$

1.2. Assessment Process for Practical Courses:

Assessment Method	Assessment Period	Assessed By	Reviewed By
Evaluation of all the experiments	Once per Experiment	Respective Faculty Member	HOD
Model Exam	Once per Semester		
Additional Experiments /	Depends upon the course		

Mini Projects			
University Examination	Once per Semester	External Examiners	Anna University

1.3 Project Work

- The students are permitted to carry out their projects either in-house or in an Industrial / Research Organization, on the recommendations of the Head the Department.
- There shall be three reviews during the semester by the review committee which are continuously assessed. The project work shall be evaluated at the end of the semester by an internal and university appointed external examiners.

2. Indirect Assessment tools

- *Alumni Survey*
- *Student Feedback*
- *Parent Feedback*
- *Student Entry survey*
- *Student Exit survey*
- *Industry feedback*

SAMPLE ATTAINMENT (Department of Mechanical Engineering)

Level of Attainment:

Target has been arrived based on the average percentage of students scored more than the class average marks in the previous three academic years

Target vs Attainment level for Direct Assessment

% of students scoring above the class average mark in the Direct assessment			
Target	Attainment		
	Level 1 Above - Less than	Level 2 Above - Less than	Level 3 Above
55	45-50	50-55	55
60	50-55	55-60	60
65	45-55	55-65	65
70	50-60	60-70	70
75	55-65	65-75	75
80	50-65	65-80	80

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

2.6.3 Average pass percentage of Students**Response:** 81.26

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

Response: 1318

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

Response: 1622

File Description**Document**

Institutional data in prescribed format

[View Document](#)

Any additional information

[View Document](#)**2.7 Student Satisfaction Survey****2.7.1 Online student satisfaction survey regarding teaching learning process****Response:** 3.18

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

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

Response: 72.88

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

2017-18	2016-17	2015-16	2014-15	2013-14
9.67	5.60	52.11	0	5.5

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

3.1.2 Percentage of teachers recognised as research guides at present

Response: 10.2

3.1.2.1 Number of teachers recognised as research guides

Response: 40

File Description	Document
Any additional information	View Document

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

Response: 0.03

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

Response: 10

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

Response: 1761

File Description	Document
Supporting document from Funding Agency	View Document
Any additional information	View Document
Funding agency website URL	View Document

3.2 Innovation Ecosystem

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

Response:

St. Joseph's College of Engineering has a well established and active Research and Development Centre, with members drawn from different departments. The Centre encourages students and faculty members to carry out innovative research aimed at patent registrations and arrange lectures / workshops on IPR. We have filed 19 patents arising out of the research carried out in various departments.

The Centre for Intellectual Property Rights, Anna University, Chennai has instituted an award for the institutions engaged in noteworthy IPR activities in the year 2016 and our college has been awarded with the **IPR Award in 2016**.

The Institution has well-equipped laboratories to cater to the needs of students and to nurture them towards research and developmental activities. The R & D Cell organizes fortnightly review meeting to ensure that faculty members submit research proposals to various government organizations (like AICTE, DST and DBT), and corporates (like CTS) for getting sponsored projects. In the past 5 years, a total financial grant of **Rs. 93.26 Lakhs** has been sanctioned for 7 projects, out of which 4 projects have been completed and 3 are ongoing.

Our faculty members have published **380 research papers** in UGC/ Web of Science indexed journals in the past 5 years. The college has contributed **Rs. 6.83 Lakhs** towards the publication of such research papers. The Department of Scientific and Industrial Research (DSIR), Government of India has recognized our College as a **Scientific and Industrial Research Organization (SIRO)**.

The Institution has an ecosystem for innovations including Entrepreneur Development Cell and Incubation Cell for helping successful engineering graduates to float **startup** ventures and technology transfer. A **Mushroom Cultivation Center** for giving training in spawn production and mushroom cultivation has been started in the month of **January 2019** with the help of **Department of Biotechnology** in our college. This Center aims at providing training to the interested graduates in our college, rural youth entrepreneurs and women self-help groups. The innovative projects of the students have led to **Technology Transfer** to government and corporate sectors in case of **15 projects**.

Series of seminars and workshops are being organized for students and faculty members from various departments every year with the purpose of initiating students' interest in the research activities. In the past 5 years, we have organized 40 different workshops (the list is attached) in our college. Under industry-academia practice, several events have been conducted with the support of industries to update the knowledge of the students and staff.

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

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

Response: 27

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

2017-18	2016-17	2015-16	2014-15	2013-14
9	8	3	1	6

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

3.3 Research Publications and Awards

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

Response: Yes

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

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

recognition/awards**Response:** Yes

File Description	Document
e- copies of the letters of awards	View Document
Any additional information	View Document

3.3.3 Number of Ph.D.s awarded per teacher during the last five years**Response:** 1.3

3.3.3.1 How many Ph.Ds awarded within last five years

Response: 52

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

Response: 40

File Description	Document
URL to the research page on HEI web site	View 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

3.3.4 Number of research papers per teacher in the Journals notified on UGC website during the last five years**Response:** 1.1

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

2017-18	2016-17	2015-16	2014-15	2013-14
136	64	71	84	31

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

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

Response: 0.68

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

2017-18	2016-17	2015-16	2014-15	2013-14
64	49	42	41	44

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

3.4 Extension Activities

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

Response:

Our Institution gives importance to social outreach activities to help the neighborhood and also to instill social responsibilities in the budding young minds. The institution encourages promotion of community service through setting-up wings of YRC and NSS in the college involving students. Government of India also has sanctioned an amount of 5 lakhs under *Unnat Bharat Abhiyan scheme* for such outreach programs.

National Service Scheme (NSS)

The NSS unit of the college is part of the NSS wing of the affiliating University viz. Anna University. The University periodically involves the Programme Officers of the colleges under its control for discussion with them about the activities that could be initiated for the betterment of the society at large.

The NSS wing of the college having about 100 students conducts programs in villages around the college to educate the villagers on hygiene and sanitation, literacy of women and uplift of their status in the society. They also focus on the employment opportunities available for the youth of the village, protected water supply system, women empowerment through education, AIDS awareness and involvement of youth for mass literacy, National Integration and Social Harmony'. Student volunteers stay in the surrounding villages for about 7 days a year to carry out NSS activities which include refurbishing the school buildings and arranging health check up with doctors.

Youth Red Cross (YRC)

YRC with about 30 student members with a Coordinating Officer is organizing blood donation camps joining hands with different hospitals and organizations in and around the city. In addition, the students of the YRC volunteers in large number to donate blood as and when it is sought for in case of emergencies.

In the past 5 years, 705 extension and outreach programs were conducted with Non- Government Organizations through NSS, YRC etc.,

Impact & Sensitization

The institution has earned the good will of the neighboring villages and has been getting some work force as employees at the college. These outreach activities ensure that the students are sensitized about the social issues pertaining to the surroundings. The extension activities are designed to ensure that students become well rounded personalities apart from excelling in their own careers. By living with the villagers, the students tend to understand the dignity of labor, the difficulties faced by the village people and these in turn shape them into socially conscious citizens. About 60% of the students participated in the extension activities involving Government and Non-Government Organizations during the last five years.

Apart from the above activities, our Institution has a unique scheme of students visiting the homes for destitute children, old age people and mentally challenged children run by NGOs every week in turn. During their visits they carry with them relief materials and special lunch to be offered to the inmates and also spend time with them.

Active involvement of students in all the above activities shapes them into responsible human beings, conscious of the social issues and contributes for their holistic development

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

3.4.2 Number of awards and recognition received for extension activities from Government /recognised bodies during the last five years**Response: 1****3.4.2.1 Total number of awards and recognition received for extension activities from Government /recognised bodies year-wise during the last five years**

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	1	0	0

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

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

Response: 705

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

2017-18	2016-17	2015-16	2014-15	2013-14
154	149	156	134	112

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

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

Response: 63.35

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

2017-18	2016-17	2015-16	2014-15	2013-14
4106	3888	4084	3422	2772

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

Response: 297

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

2017-18	2016-17	2015-16	2014-15	2013-14
76	64	47	62	48

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

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

Response: 58

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

2017-18	2016-17	2015-16	2014-15	2013-14
25	9	5	9	10

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

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

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

Response:

This stated policy is entrusted in providing world class infrastructure to the students fraternity, enabling them to envisage and equip adequately. The Institute has a sprawling campus spread of 28.16 acres with modern buildings, well equipped and spacious library, technology supported class rooms, state of the art placement and training block, seminar halls and spacious auditoria, thus enabling an conducive environment aiding effective knowledge transfer.

The institute has well equipped audio-visual halls for conducting seminars, co-curricular and extra-curricular activities. Guest lectures, workshops, faculty development programs (FDP), value added courses, intra and inter department symposiums are conducted every semester of the academic year, to equip the students with the latest trends and technologies, enabling them to meet the ever demanding challenges. The class rooms are equipped with LCD projectors and necessary teaching aids for effective teaching and learning process. The institute has 145 classrooms, out of which 117 are with the ICT facilities.

All the departments have well-furnished separate cabins for the faculty members to regularly counsel and guide students. Internet facility with LAN connection is available in the faculty cabins. Faculty Members are given with a laptop/notebook as a teaching-learning tool. The student co-operative store, located in-house, supplies textbooks, necessary notebooks, drawing boards, laboratory manuals, question bank, records and other essential stationeries to students. The college have separate sections for printing and binding lab manuals, notebook materials, mini-project reports, in plant training report and final year project reports at free of cost. Each floor is facilitated with purified water cooler for students/staff members. Campuses are under the surveillance of CCTV cameras.

Physical Infrastructure

I.No	Facility	Total No.	Total Area in Sq. m
1	Class Rooms	145	15003
2	Tutorial Room		
3	Drawing Halls	6	2200
4	Laboratories	73	20453

5	Exam Halls and Controller office block	4	2222
6	Administrative Block halls	12	1987
7	Visitors Lounge	1	279
8	Staff Rooms	24	2601
9	Conference Halls	8	2605
10	Library Halls	4	4000
11	Research and Development	1	557
12	Placement and Training	2	763
13	Boarding meeting halls	2	165
14	Department of Physical Education	1	279
15	Mess block	16	7093
16	Ladies Hostels	138	25200
17	Recreational facilities	1	6197
18	Gents Hostels	215	39150
19	NSS, Alumni, Entrepreneurship Cell	3	197
20	Transport workshop	7	8327
21	Stadium	1	1858
22	Indoor Auditorium	1	3500
23	Gym	2	465
24	Dispensary	2	206
25	Toilets in all Blocks	54	2322
26	Atrium	1	650
27	Circulating Area and Veranda	1	10219
28	Canteen	3	94
29	ABHS-Advisory Bureau of Higher Studies	2	210
30	Other Amenities	18	1275
31	Securities system and Spiritual centre	4	455

32	EB room and Generator Room	5	446
Total Areas in Sq. m			1,60,978

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

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

Response:

The college emphasize on the overall development of students, by the way of motivating talented and deserving sportsmen and sports women, offering them free seat, free hostel accommodation, sportswear and gear. The generosity coupled with a noble vision of the management, the institute has bagged numerous prestigious awards and achievements. Sports are given equal weightage as academics. A sports village established on 2001 dedicated for sports activities. The College has the highest intake of sports students in Tamil Nadu.

There are sufficient numbers of atriums, conference halls, auditoriums, amphitheaters for organizing cultural, literary and indoor sports events. Sports facilities for students such as Basketball court, Football ground, Volleyball court, Table Tennis boards, Indoor Badminton court etc. are provided. The sports students have their practice at 4 a.m. in the morning and 5 p.m. in the evening respectively. The students are encouraged and provided with all necessary facilities to participate in Inter University, Intra University and other sports tournaments

Yoga Activities:

In addition to academics, cultural and physical activities, our college organizes regular “Yoga Activities” on every Saturday. Regular assessment through the response of students who involve themselves in yoga practice indicates improvements in their studies and functions.

Regular Cultural activities:

The expressive professionalism is imparted through cultural programs being conducted periodically. The institute has spacious auditoria, with excellent acoustics and massive seating capacity. Programs are planned to impart professional ethics, societal service, environmental protection and patriotism. The students have won various trophies and metals in various competitions. The college also conducts intra-college cultural competitions and cash prizes and merit certificates are distributed to the students on the college day.

Our Institution conducts sports events such as Intramural sports and JETS for the students who are very much interest in sports. Institution conducts the Intramural sports event for I year students and Other Students separately. JETS were conducted as a national level sports meet where in number of colleges all over India participated. The sports coordinators organize games such as volley ball, football, kabaddi, badminton and various athletic events and winners are awarded certificates and cash prizes. Our students participate in various cultural competitions and bring laurels to the college

Sports Facilities

Sl.No	Sports/Indoor or Outdoor Games/Gym/Yoga	Number of Courts	
		Men	Women
1	Ball Badminton	2	1
2	Basket Ball	2	1
3	Cricket	3	1
4	Hockey	3	-
5	Kabaddi	3	1
6	Tennis	2	1
7	Volley ball	3	1
8	Foot ball	3	1
9	Athletics 400 mts Track	1	-
10	Out Door Badminton	2	2
11	Indoor Badminton	3	-
12	Table Tennis	3	-
13	Indoor Volley ball	1	-
14	Weight Lifting	1 room	-
15	Gymnasium	2	-
16	Yoga Centres	1	1

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

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

Response: 76.47

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 117

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

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

Response: 27.02

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

2017-18	2016-17	2015-16	2014-15	2013-14
111.16	146.46	111.07	207.89	244.32

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

4.2 Library as a Learning Resource

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

Response:

About AutoLib - Library Automation Software

AutoLib software is web enabled for Intranet and Internet environments. It is developed using VB, VB Script, ASP, Java Script and HTML as front end tools and RDBMS such as MS SQL server, Oracle, MS Access as back end databases.

This software consists eight modules viz. Database Management Systems, Search (OPAC), Counter Management Systems, Acquisition Control Systems, Report Management, systems Administration and Web Module.

It maintains all the activities of the library such as Transactions, Cataloguing , Data Updating/Editing , Serial control, Searching all types of documents, Report Generating etc. Especially searching the documents by simple search, Advanced search and restricted searches are facilitates users to find out relevant document easily and quickly. All kinds of Report generation can be taken such as daily transactions, unique titles of books, year wise addition, and spending of amount, Member reports etc.

OPAC (online public access catalogue) facilitates users to know the availability of books, searching of documents and borrowing details of documents with in campus from the place where they are.

Modules Description :

1. Database Management System : This modules allows to create, update/edit and maintain the following databases such as

- Books, Thesis, Non Books, Project Reports
- Journals, Journal Issues Journal Articles and Back volumes
- Authors, Publishers, Suppliers Subjects
- Members, Departments, Courses

2. Search : Designed to search all the above databases using all the important fields and print search results in any desired format

- Simple search
- Advanced search
- Restricted search

3. Circulation Management Systems : Designed for all types of counter transactions for Books, Journal Issues, Book Bank Books, Reports, Thesis and Non Books such as

- Issue/Return/renewal
- Reservation/Reservation Cancel
- Reminders/Overdue Reports/No due Certificates
- Printing barcode labels
- Transaction reports

4. Acquisition Control Systems : Designed to automate various activities involved in Book ordering and processing such as

- Checking for duplicates
- Receipt of Documents and Invoice processing
- Order follow-up, payment to Suppliers
- Status report, Vendor Information, etc.

5. Serial Control System (Journals) : Designed for automate various activities involved in subscription of journals such as

- Creation and maintenance of Journal Master
- Subscription/Renewal of Journals
- Invoice Processing, payment and budget control
- Generation of Journal issues with details
- Searching/Browsing

6. Systems Administration : This modules allows to

- Create new user log in ID, Password and grant rights to access various modules
- Create group Master-to set due date, allowed cards for different documents for different categories
- Conduct online stock verification
- Maintain Budget Master

7. Report Management : Designed to generate and print a large number of reports such as

- List of books by author, title, unique titles, supplier, call number, subject, department, document type, availability, etc.
- Amount spent for procuring books under various
- List of Journals - Indian/Foreign
- List of Members
- Accession register, catalogues
- List of Suppliers/Publishers

8. Web Module : This module allows to search various databases using browsers like Internet Explorer or Lan/Intranet environment using Web services and it has the following WEB OPAC modules

- Simple search/Advanced search
- Statistics
- Search reports, circulation reports

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

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

Response:

Collection of Rare Books –2952 Nos. (Encyclopaedias + Handbooks + Dictionaries) Videos beyond syllabus – 119

Gate and Competitive exam books - 544 Nos – Library is providing resource for higher education and career guidance.

Book Bank - 178552 volumes – Book Bank facility is one of the important facilities for students.

Project reports –7152

Library has also made provision for students to refer old question papers for preparing their examination.

Because of currency, convince, relational mobility, low cost of content, we are making provision for our users to access e-resources through subscription, consortia basis and freely available / open success e-resources.

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

4.2.3 Does the institution have the following:

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

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: B. Any 3 of the above

File Description	Document
Details of subscriptions like e-journals,e-ShodhSindhu,Shodhganga Membership etc	View Document
Any additional information	View Document

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

Response: 56.72

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

2017-18	2016-17	2015-16	2014-15	2013-14
41.62	75.31	63.85	57.21	45.59

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

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

Response: Yes

File Description	Document
Any additional information	View Document

4.2.6 Percentage per day usage of library by teachers and students

Response: 8.39

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

Response: 540

File Description	Document
Any additional information	View Document

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi

Response:

The college has adequate facilities of the information technologies including Wi – Fi and the internet connections well spread through the campus and it is updated frequently. The institution is equipped with 1340 internet connected computers, besides having 8 interactive boards with visualizers and LCD projectors installed in all departments. All the systems in the college campus are provided with LAN facility. The college has a well-equipped smart class rooms with all modern facilities concerning ICT. The conference halls consist of computers with internet and LCD Projectors.

The entire college campus is connected through fiber optic network which ensures reliable connections all the time. Internet Facility is available at all hostel rooms, library, placement blocks and all the laboratories within the campus.

Campus network enables remote learning, conferences, collaborative research, industry relations, alumni and remote recruitment, competitive examinations conducted by the Government. The campus has integrated software for various administrative and academic activities. All the notices are electronically circulated through e-mails. The college uses various open source and license software which are upgraded periodically with the latest version. A team of in-house staff is designed to take care of the IT & related needs of the campus such as Software, Hardware and Networking, Website designing and hosting, Email, SMS solutions, etc.

All the computers are connected to uninterrupted power supply for safe operations and security is also ensured due to the usage of hardware firewall. The various other computing facilities like printers, software, database, dedicated lease-line of 215 Mbps bandwidth with Wi-Fi networking caters to all the labs and departments for the benefit of faculty and students.

The institution, including hostels is well connected through OFC technology which connects 1340 Nodes. NMEICT BSNL 20 lines of 10 Mbps (VOIPP) are utilized for academic purposes. This internet facility is used well for research, curricular, co-curricular and extra-curricular activities by students and staff members.

Infrastructure facilities for e-content development including lecture capturing center, ICT enabled seminar halls help the faculty to prepare ICT enabled learning materials. Fully air conditioned conference halls, and

tutorial rooms equipped with all modern facilities & Audio Visual halls are also in place for special lectures by renowned resource persons with informative models for power point presentations and animations.

Construction of new laboratories, renovation and up-gradation of existing laboratories, expansion and modernization of facilities are an integral part of our growth plan. Laboratories with desktops and workstations provide centralized computing facilities to faculty members and students for promoting the teaching and learning environment.

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

4.3.2 Student - Computer ratio

Response: 4.51

File Description	Document
Any additional information	View Document

4.3.3 Available bandwidth of internet connection in the Institution (Lease line)

>=50 MBPS

35-50 MBPS

20-35 MBPS

5-20 MBPS

Response: >=50 MBPS

File Description	Document
Any additional information	View Document

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

Response: Yes

File Description	Document
Facilities for e-content development such as Media Centre, Recording facility,LCS	View Document
Any additional information	View Document
Link to photographs	View Document

4.4 Maintenance of Campus Infrastructure

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

Response: 58.44

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

2017-18	2016-17	2015-16	2014-15	2013-14
456.32	349.19	334.21	295.80	330.29

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

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

Response:

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

Utilization and Maintenance of Physical, Sports Complex and Support Facilities

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, preventive maintenance of buildings, painting, masonry and plaster work, carpentry and plumbing work periodically and the status will be reported to Head of the Institution.

Electrical Work Maintenance: The electrical work maintenance team of the college has well trained certified electricians to carry out maintenance of generators, UPS, Public Addressing System in time to time and is recorded in maintenance register.

Air-conditioner Work Maintenance: The regular maintenance of filters and gas filling for air conditioners and water coolers in the campus are serviced periodically every 6 months and whenever is required by the cooling system maintenance team.

Telecom Work Maintenance: The regular checking of intercom lines is being carried out once in 15 days upon the complaints and feedback from head of the departments and is recorded in maintenance register.

Housekeeping and Maintenance Work: Cleaning and mopping of classrooms, laboratories, library, Seminar halls, AV halls, Mess halls, Administrative block and placement block by housekeeping team of the college.

Gymnasium and Sports Complex Maintenance: Separate open ground for badminton, football, volleyball, basketball, cricket and gymnasium are made available for all the students. The maintenance of sports equipments and playgrounds are maintained by a physical director and the team members.

Maintenance through External Agencies: Apart from the regular maintenance by all these above committees the optimum working condition of CCTV cameras, Reverse Osmosis plant and Sewage Treatment Plant are ensured by external agencies.

Utilization and Maintenance of Class Rooms, Library and Laboratories

The classrooms, laboratories, seminar halls, and library facilities are utilized regularly by the students for the learning process. The library has a reading hall and computers for students to access e-journals, while the subscribed e-journals can also be accessed from any networked computer in the campus.

Students are provided individual computer in all lab sessions and also they are allowed to work after the college working hours. Apart from the regular lab classes, the various Value Added Courses (VAC) and workshops are conducted in the lab for the benefit of students.

Soon after the completion of all laboratory activities, the planning for next semester are been initiated by preparing a complete lab manual cum observation for the forthcoming semester only after conducting each and every experiment by faculty members every semester.

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

Maintenance of laboratory premises and equipments:

Students are given instruction in handling the equipment/system/component before the conduct of experiment during their lab sessions and the maintenance of labs include:

Repairing

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

Refurbishing

Refurbishing refers to the process of dismantling the component of the laboratory equipment/system and assembling the same to increase the performance efficiency. This practice is carefully followed as per the documented standard procedures for every equipment to ensure its optimal performance.

Regular maintenance

- Set up weekly updates or automatic updates for computers
- All the PCs and related equipment like printers, scanners, etc. are backed by UPS
- Installation of anti-virus program on the computers
- Back up of computers on a regular basis
- Hard disc cleanup and defragmentation utilities regularly
- All computers are checked for applications at start of semester
- Turn off all computers by selecting the shutdown option on the desktop
- Frequent maintenance of computers, AC, Printer and other equipments for every 6 months or as and when required.
- Software license renewal is done as per the license period.
- The proper working of all the equipment is checked in all the laboratories with the help of the lab assistants and corrective measures are carried out.
- The maintenance report is maintained for all the laboratories by the concerned lab incharges.
- Calibration of equipments are done and a report is maintained
- All the 5S (Sort, Set in order, Shine, Standardize, and Sustain) is conducted by a team of members to verify cleanliness.
- Suitable thickness of the wire based on current rating is used in the fuses to avoid the malfunctioning
- The working condition of passive elements and transistors are checked by using multimeter and LCR Meter in all laboratories and the working condition of the ICs are checked using IC tester.
- Lubricants are used in heavy equipment such as ball mill roll crusher, sieve shaker etc to reduce wear and tear.
- Connecting belts in motors are checked periodically
- The bio safety protective measures such as usage of gloves, handling microorganisms, work surfaces, disinfections and decontamination for disposal are followed carefully in course specific laboratories.

Scrap items in the laboratories are identified with the concern of the lab incharges and HOD. Then they are sent to the scrap yard after inspection by the stock verification committee.

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

Criterion 5 - Student Support and Progression

5.1 Student Support

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

Response: 33.51

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

2017-18	2016-17	2015-16	2014-15	2013-14
1953	2019	1875	1901	1856

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

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

Response: 0.8

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

2017-18	2016-17	2015-16	2014-15	2013-14
45	47	53	43	42

File Description	Document
Any additional information	View Document

5.1.3 Number of capability enhancement and development schemes –

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

A. 7 or more of the above

B. Any 6 of the above

C. Any 5 of the above

D. Any 4 of the above

Response: A. 7 or more of the above

File Description	Document
Details of capability enhancement and development schemes	View Document
Any additional information	View Document
Link to Institutional website	View Document

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

Response: 93.65

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

2017-18	2016-17	2015-16	2014-15	2013-14
5395	5637	5559	5285	4986

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 Average percentage of students benefited by Vocational Education and Training (VET) during the last five years**Response:** 10.81

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

2017-18	2016-17	2015-16	2014-15	2013-14
815	660	988	458	238

File Description**Document**

Details of the students benefited by VET

[View Document](#)

Any additional information

[View Document](#)**5.1.6 The institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases****Response:** Yes**File Description****Document**

Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee

[View Document](#)

Details of student grievances including sexual harassment and ragging cases

[View Document](#)

Any additional information

[View Document](#)**5.2 Student Progression****5.2.1 Average percentage of placement of outgoing students during the last five years****Response:** 69.62

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

2017-18	2016-17	2015-16	2014-15	2013-14
823	898	888	828	697

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

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

Response: 9.71

5.2.2.1 Number of outgoing students progressing to higher education

Response: 128

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

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

Response: 65.26

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

2017-18	2016-17	2015-16	2014-15	2013-14
131	166	123	205	156

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

2017-18	2016-17	2015-16	2014-15	2013-14
213	256	201	281	237

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

5.3 Student Participation and Activities

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

Response: 37

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

2017-18	2016-17	2015-16	2014-15	2013-14
11	7	4	5	10

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

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

Response:

The institution has avenues for active participation of students on academic and administrative committees.

The senior students involve themselves in the teams which give orientation to the new comers every year. Participating in such activities nurtures leadership skills and team spirit in the students.

The Institution conducts department wise students meeting in the beginning of every semester where a team of 6 students from each class participate and give their feedback on their academic needs.

Enthusiastic participation of students in the activities of National Service Scheme (NSS) and Youth Red Cross (YRC) in the college gives them a sense of social responsibility. Apart from these, all the students visit homes for destitute children, old age home etc., and run by Non-Government Organizations once in a semester in turn.

The institution caters to specific needs of the students to equip for a career of their choice through Civil Service Academy, Defence Academy and Entrepreneurship Development Cell which are functioning under the guidance of dedicated faculty members.

The Institution has various clubs such as Tamil Mandram, English Club, Eco-Soc Club and Maths Club in which students take active part to develop their soft skills.

Participation of students in the activities of CTS Club, Developer Students Club and Coding Club helps to enhance their technical skills.

The Institution has Students' Chapters of Professional Societies in all disciplines, which provide avenues for the development of technical skills, updating knowledge, personality development in addition to exposure to working in systems of organized structures. The college has the chapters of Professional Societies, namely, Computer Society of India (CSI), Indian Society for Technical Education (ISTE), Institute of Electronics and Telecommunication Engineers (IETE), Institute of Electrical and Electronics Engineers (IEEE), Institution of Chemical Engineers (ICChemE), Society of Automotive Engineers India (SAEINDIA Collegiate Club), Indian Welding Society (IWS), Indian Society for Heating, Refrigerating and Air-conditioning Engineers (ISHRAE) and American Society of Heating, Refrigerating and Air-conditioning Engineers (ASHRAE). The activities these chapters are solely conducted by office bearers of these societies consisting only students members.

The student members involve in the societies form working groups to carry out activities such as

- Imparting computer training and career awareness to school children
- Developing Engineering models
- Construction of racing cars

The students also act as coordinators during Inter-Collegiate and Intra-Department symposia, in which lots of working engineering models are on display.

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

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

Response: 21.4

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

during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
22	15	26	26	18

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

5.4 Alumni Engagement

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

Response:

The alumni association was formed in the year 1998 in our Institution. Most of the alumni of our institution are successful in their careers and spread all over the world. The alumni meet is conducted once in a year, wherein the passed out students of under graduate and post graduate programs share their views with their juniors and give their suggestions towards the betterment of curriculum.

A dedicated link in our college website is made available exclusively for our alumni, where they can register their profile and get membership of alumni association online. *We are proud to say that a significant number of our passed out students are in U.S.A, U.K., Germany, Australia, Canada, and Singapore etc. in pursuit of either higher studies employment.* These alumni members are regularly appraised about the actives and developments of the college through social media networking.

Many distinguished alumni serve as role model for the current students. Alumni are invited to address the juniors in their department whenever they visit the campus. They share their experiences regarding time management, self-discipline and career management often found to be more useful and inspiration for students. This type of interactions helps juniors to get useful awareness about the opportunities and challenges ahead of them.

Our college has a unique scheme of '*Alumni mentors*' where the distinguished alumni, mentor the current students through the networking forums. They share their experiences, knowledge and advice the students and by means of these alumni meets, a strong bond is created between the passed-out students and current batch and helps them to get best career guidance of their choice. Apart from this, **the alumni frequently visit the institution and deliver guest lectures on career guidance in their areas of expertise and motivate the young minds. They have even** provided lab equipment for the benefit of the students.

Successful alumni entrepreneurs are often invited to share their success stories on various occasions in the Institute. With the help of alumni, value added courses and technical skill development programs are also conducted. The alumni also help the final year students of the various streams of engineering and business administration to get their placements and summer internship in their companies. The alumni association meetings also pave the way for the successful placements of the students.

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

5.4.2 Alumni contribution during the last five years(INR in Lakhs) ? 5 Lakhs

4 Lakhs - 5 Lakhs

3 Lakhs - 4 Lakhs

1 Lakh - 3 Lakhs

Response: 3 Lakhs - 4 Lakhs

File Description	Document
Any additional information	View Document
Alumni association audited statements	View Document

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

Response: 7

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

2017-18	2016-17	2015-16	2014-15	2013-14
1	1	2	1	2

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

NAAC

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

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

Response:

VISION

To become a world class educational centre of the nation for Engineering, Technology, Computer Applications and Management with moral and professional standards to serve the community at large.

Articulation of the vision

We believe in providing a quality technical education coupled with strong fundamentals and moral standards would enable students to excel in their respective field of study. We also empower students to perform better at their work place and become a better citizen

MISSION

To achieve academic excellence in Engineering, Technology, Computer applications and Management Education.

To inculcate high moral and professional standards among our students.

To develop overall personality of the students.

To promote industry institute interaction through more number of collaborative programs with industries / research and development centers.

To venture for sustained placement for our students through campus interviews

Articulation of the mission

The mission of the institute would be the reality if we could make the students into professionals with technical competence and managerial skills with no compromise on values and ethics. In the journey of accomplishing the vision, the institute strives to bring a holistic development of the students to fulfill the expectancies of the industry and society.

The nature of governance, perspective plans and participation of the teachers in the decision making bodies

The Chairman leads the administration of the institution and guides Principal, faculty and students to work towards the vision of the institute. Based on the Vision and Mission of the institute and driven by the needs of the corporate world, society and stakeholders, the strategic plans of the institute are framed. All vital decisions regarding the commencement of new courses, expansion of infrastructure, formulation and

promulgating of strategy are approved by the Chairman. The implementation process is further discussed with the Principal and Heads of the departments for execution.

The perspective plans are prepared by the Principal. The academic calendar (semester wise) scheduling the internal assessment tests, industrial visits, conferences, workshops, seminars, FDPs, club activities, sports day, graduation day, NGO visits , celebrations etc is prepared by the Principal after having discussions with the HODs and various committee members. The Principal ensures quality standards in teaching learning Process, evaluation system and other related activities. The Principal initiates various quality enhancement programmes in the institution and is assisted by HODs, Administrative Head, In-charges and Coordinators of various cells/committees in decision making process of the Institute.

HOD's prepare the operational plan for their respective departments with the concern of the Principal. Faculty and staff are assigned with the roles and responsibility to work in a harmonious environment with complete transparency. HOD's conduct periodic meeting in the department The collective suggestions given by the faculty, students, corporate and other stake holders are discussed with the Principal. The Principal discusses with the Chairman and gets the approval. The approved decisions are circulated among the stakeholders for execution. The management ensures a smooth flow of information Top down and bottom up paving way for excellent team work among the stakeholders.

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

6.1.2 The institution practices decentralization and participative management

Response:

Response:

The Institution has culture of decentralized governance system with well-defined inter-relationships. Institute delegates adequate authority to the departments to work towards decentralized governance system. There are various committees involving faculty which are constituted to manage different institutional activities. Committees are formed for the various curricular, co-curricular and extracurricular activities to be conducted during the academic year. The departments are encouraged to arrange various activities with the support of Management for the benefit of Students and Faculty; also the management has extended enough financial powers to Head of the Institute and Department Heads.

A case in point: Annual budget: Proposal, Approval and Allocation.

Principal is responsible for preparing the annual budget of the institution. The Budget planning for the year starts in the month of January. The Department heads and the administrative in-charges are instructed to plan the budget for the forthcoming year. They are invited to submit their carefully proposed budget for every academic year by the last day of February month.

The HOD instructs the Department in-charges to prepare the budget proposal for various activities like workshops, guest lectures, seminars, conferences, training, value added courses, professional body activities and industrial visits etc. In addition to this the lab-in charges are also asked to come up with a proposal of their requirements for purchase of new equipment, repairs and maintenances, service, training and up gradation. The final budget proposal is prepared after scrutinizing at department level by the concerned heads.

The administrative in - charges for placement, electrical, water, transport, mess, exam office, and civil works will also submit the proposal to the Principal. The budget proposal for the library is prepared after consulting the various departments.

The budget proposal at the institutional and departmental levels is submitted to the Principal on or before 1st of March. The Principal then consolidates all the budget proposals received from the subordinates and organize a meeting to eliminate redundancy. The modified proposed budget is forwarded to the Chairman for approval.

The approved budget is then communicated to all heads and in-charges through proper channels. A monthly requirement form is submitted to the Principal every month and Accounts department releases the funds for the same. Through effective decentralization, the institution practices successful delegation and enhances the productivity of the college. This style of participative management ensures complete and constructive delivery of financial activities

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

6.2 Strategy Development and Deployment

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

Response:

The leadership provides clear vision and mission to the institution. The functions of the institution and its academic and administrative units are governed by the principles of participation and transparency.

The college has the following perspective plans:

1. Enhancing the quality of Teaching – Learning
2. Promotion of Research among faculties and students

3. Talent acquisition and retention
4. Quality Assurance Measures
5. Improving Entrepreneurship Development and Industry-Institution- Interaction
6. Placement and Training activities

Example of an activity successfully implemented based on the strategic planning: Title of Practice: Promotion of Research among the faculty and students **Objectives:**

- To upgrade the qualification and knowledge of the faculty and students
- To create a research culture in the institute
- To establish recognized center of higher learning & research leading to Ph. D. and facilitate further research.

The need for upgrading the qualification of the teachers was perceived well ahead by the Institution. The initiative taken by the management and encouragement of the Principal has motivated many faculty members to pursue their PhD degrees. The faculties are given OD for 120 days to complete their research work. In addition to this they are also given on duty of two days per week to complete their course work during the first year of their research number of PhD's in the college is 130. 40 Faculty members are also recognized supervisors in various universities and 5 departments are recognized as Research Centers by Anna University.

To bring about research culture in the institute, the management encourages the faculties and students to publish articles in refereed journals of high repute. The college has an overall scopus index of 29. The number of publications for the last five years has increased from 88 in 2013 to 228 in 2018. Faculty are encouraged to attend conferences both at national and international levels. The number of conferences attended is 660 in the last five years. Besides faculties, the students are also motivated to attend the conferences, workshop and take-up internship, and collaborative projects for up-gradation of knowledge. The number of certification programmes conducted in the last five years are 146. The college conducts national level seminars/ conferences to provide a platform for the students and faculties to present their research findings.

The incubation center and the center of excellence approved by MSME is again a stride taken by the college in the direction of promoting research work. The achievements of the institution after the implementation of the strategic plan is shown below.

Achievements of the Institution After The Implementation of the Strategic Plan

Description of the metrics	2013-2014	2014-2015	2015-2016	2016-2017

No of Ph.D's	69	86	104	11
No of approved supervisors	18	22	29	3
No of Publications	88	172	195	19
Research projects received (in lakhs)	5.5	55.2	11.27	10
No of patents filed	8	-	6	2
Value added courses offered to students	24	25	48	30
No of conferences /workshops attended	57	64	72	11
Conferences / Workshops Organized	10	18	13	24
Anna university Approved Research centers	3	5	5	5
Collaborative workshops	2	3	5	7
Center for excellence		-	-	1

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

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

Response:

Board of Governance

Governing Council is responsible to monitor the overall performance of the institution. The committee meets once in a year to review the performance and provides suggestions in the areas of improvements.

Academic Council is responsible to monitor the academic schedule, maintaining the standards of teaching, research and the assessment tools and procedures. It reviews and appraises all the functions of the sub committees periodically.

Advisory Committee plans and monitors all academics and other activities at institutional level. It reviews the quality of course delivery process and attainment of outcomes. It also reviews the process for providing skill and knowledge beyond the syllabus in attaining PO, PSO through CO.

Roles of Administrators & Decision Makers:

Chairman:

- Responsible for formulating the Policy and objectives of the Institution,
- Overall control of the financial function of the Institution.
- Overall responsibility for providing resources like Human, Infrastructure, other facilities

Managing Director :

- Responsible for implementing the decisions with regard to St. Joseph's college of Engineering taken by the Trust from time to time.
- Responsible for the administration of Transport and Mess facilities in consultation with Chairman & Managing Director
- Responsible for day to day bill passing

Director:

- Responsible for implementing the decisions with regard to St. Joseph's college of Engineering taken by the Trust from time to time.

- Responsible for day to day bill passing
- Responsible for the administration of Transport and Mess facilities in consultation with Chairman & Managing Director

Principal:

- Overall responsibility of planning and implementing all academic activities like budget finalization, preparation of academic calendar, faculty and staff recruitment.
- Communicating with AICTE, NBA, DOTE, Anna University and other Statutory bodies and implementing / executing the instructions / guidelines provided by them.
- Responsible for evaluating and monitoring the performance of various departments and reporting to the Chairman.
- Responsible for organizing and conducting staff meetings.
- To motivate and encourage students to excel in various academic, co-curricular & extracurricular activities.
- To ensure the discipline of the college is well maintained.

Dean

- Responsible for the up gradation of qualification of the faculty.
- Responsible for encouraging faculty to attend, FDP, workshop and conferences.
- Responsible for faculty publications in refereed journals.

Head of Departments:

- Responsible for planning and conducting teaching learning process successfully & ensure discipline among students and faculty members of their respective departments.
- Responsible for organizing and conducting staff meetings.
- Analyze the feedbacks from both students and parents and to take appropriate corrective/preventive actions for improvement if necessary in consultation with Principal.
- Responsible for work load allocation in the beginning of each semester with the approval from Principal.

Grievance Redressal Mechanism

A committee consisting of about four members (two women faculty) is constituted. Grievances from the students, faculty or staff if received is discussed and the necessary action is initiated by Grievance Redressal Committee

Service Rules, Recruitment and Promotion Policy :

The service rules, the recruitment procedure and the promotion policies are framed in accordance to the norms of AICTE, Anna University and it is made available in the webpage of the institution.

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

6.2.3 Implementation of e-governance in areas of operation

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

- A. All 5 of the above
- B. Any 4 of the above
- C. Any 3 of the above
- D. Any 2 of the above

Response: A. All 5 of the above

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

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

Response:

Various committees are constituted for the effective conduct of the academic activities. Meetings are conducted by the committiees periodically and the minutes are recorded. the various committee formed are

- Class Monitoring Committee:
- Anti Ragging Committee
- Disciplinary Committee:
- Scrutinizing &Monitoring Committee for Academic Matters

- Placement & Higher Studies Coordination Committee
- Students' Activities Coordination Committee
- Industry – Institute Interaction Cell
- Entrepreneurship Development Cell
- Students' Counseling & Grievance Redressal Committee
- Sports & Cultural Coordination Committee

Activity successfully implemented based on the minutes of meeting of various bodies/cells

Based on the feedback received from the corporate and other stake holders the placement and training department felt a need to change the training pattern, shifting the focus from aptitude training to product based core training. This was discussed in detail in the placement committee meeting and further emphasized in the advisory board meeting in the academic year 2013-2014. After various deliberations, a new training calendar was prepared. This was discussed and approved by the academic council members.

In the first year the focus is on improving the soft skills and problem solving ability of the students. Soft skills are a quite essential qualification for professionals aspiring to move up the value chain especially attitude, communication and presentation. Skill Rack training and practice tests was introduced. The training constitutes Technical, Aptitude problem solving skills and tests every week for enhancing analytical skills and general awareness of students. Group Discussions are organized to promote skills of problem solving in group and leadership styles. Hence the needs are met by organizing communication Skill enhancement and Aptitude Crash Course (phase II).

The second year concentrates on BEC Training and C programming for enhancing their professional communication and programming language skills. The third year concentrates on the coding, training and testing skills done by My slate and Co cubes Online Assessment to assess the students overall capability. The test performances are regularly recorded and maintained by the placement coordinators of the department.

In the final year students undergo Data structures & Algorithm, Code fit training and AMCAT Assessment. Thus this Cell will coordinate various activities and organize programs such as Career Goal Setting, Mock Interviews, Interviewing techniques and value added courses etc. Assessment is done at the end to find the gap in skill requirements. If there is a gap the students are asked to repeat the learning process and make them competitive by additional training. Hence all the activities planned by the Training and placement cell aims at enhancing the students overall performance for their desired career goals. The implementation of training has resulted in the increase of the placements by 40% in the year 2018-2019.

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

6.3 Faculty Empowerment Strategies

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

The teaching and non – teaching staff play a vital role in the growth of the institute and therefore the college is recognizing their productiveness and acknowledges their needs and requirements. As a result, the institution is implementing various effective welfare schemes. These welfare measures enrich the physical and mental health of the employees and thus promote a dynamic and encouraging work atmosphere. This stimulates the employee productivity and commitment towards the institute. The following list shows the various welfare structures:

Teaching Staff :

1. Medical allowances to meet emergency medical expenses of staff and their dependents with medical leave.
2. Free transport and mess facilities to all
3. Marriage gift for staff and their wards and providing leave.
4. House warming gift.
5. Maternity leave with full salary.
6. All the non-doctoral faculties are encouraged to get enrolled for Ph.D. program in various Universities. Providing on duty to pursue Ph.D
7. Registration fees is paid for attending conferences, workshops and FDPs in their field of interest.
8. Providing professional body membership fees
9. Providing financial support to attend and present research papers in national level and international level conferences and for refereed journals.
10. Employee Provident Fund and Pension Schemes.
11. Special leave for religious festivals.
12. Winter and summer vacations.
13. Blazers for all teaching staff for comfortable teaching.
14. On campus free medical facilities and physiotherapy
15. Gifts during teacher's day celebration
16. Cafeterias and Stores

Non Teaching Staff :

1. Medical allowances to meet emergency medical expenses of non – teaching staff and their dependents with medical leave
2. Educational support to their wards is provided
3. Vacation for the securities with travelling allowance
4. Three sets of uniform per year
5. Marriage gift for staff and their wards with leave.
6. House warming gift.
7. Maternity leave with full salary.
8. On campus free medical facilities and physiotherapy
9. Employee Provident Fund and Pension Schemes
10. Special leave for religion festivals
11. Winter and summer vacations
12. Free accommodation in hostel for out station employees

- 13. Waiver of tuition fees in the Institution to the wards
- 14. Free transport and mess facilities
- 15. Cafeterias and Stores

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

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

Response: 16.75

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

2017-18	2016-17	2015-16	2014-15	2013-14
105	46	38	43	64

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

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

Response: 19.4

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

2017-18	2016-17	2015-16	2014-15	2013-14
32	24	13	18	10

File Description	Document
Reports of the Human Resource Development Centres (UGC ASC or other relevant centres).	View Document
Reports of Academic Staff College or similar centers	View Document
Details of professional development / administrative training programs organized by the Institution for teaching and non teaching staff	View Document
Any additional information	View Document

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

Response: 35.73

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

2017-18	2016-17	2015-16	2014-15	2013-14
336	131	72	64	57

File Description	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 programs during the last five years	View Document
Any additional information	View Document

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

Response:

An effective and well managed performance appraisal system helps the individuals and managers to achieve goals and targets successfully. Institute has systematic performance appraisal system to assess the performance of teaching and non-teaching staff to ensure the quality of teaching. The teaching staff appraisal comprises three categories such as HOD appraisal, peer appraisal and self appraisal which assess

the academic, administrative and research activities.

HOD Appraisal:

The following factors have been selected for HOD appraisal to reflect the basic core competencies and are meant to assist the performance of all staff members.

1. Teaching skill of the staff
2. Knowledge on subject
3. Research activities
4. Consistency and quality of work
5. Faculty speaks clearly and audibly
6. Proficiency in English
7. Faculty has control over the class and maintains discipline
8. Extra efforts for weak students

Corrective actions are discussed and monitored by academic council to improve the performance.

Peer Appraisal:

All the faculties are rated by their colleagues which improves the quality of the working atmosphere. The highlights of the peer appraisal to assess the professionalism are reproduced below:

1. Demonstrates cooperation and sensitivity in working with colleagues and staff
2. Responsive to constructive feedback
3. Submits required departmental reports and information on time
4. Maintains adequate and appropriate records
5. Adheres to departmental and college policies
6. Participates in departmental and campus wide activities
7. Responsive to students and is accessible to students
8. Maintains office hours and attends required meetings

In addition, with the above the knowledge, skill and ability of the faculty member are assessed by the following factors

1. Knowledge of subject matter
2. Communicates ideas clearly and effectively
3. Stimulates students' interest and desire to learn
4. Promotes active involvement of students in learning activities
5. Uses class time efficiently
6. Uses materials pertinent to the course content
7. Assesses students' progress regularly
8. Problem Solving and Innovations
9. Involvement in co curricular activities

Self Appraisal

Each and every faculty member completes the self-appraisal procedure every year in the prescribed format. It gives the details of the performance and participation of the faculty in department / college level. Self appraisal is done on the basis of the following points.

1. Subject taught
2. Result of University Exam
3. Seminar/ Workshop attended
4. Extra-Curricular /Co-Curricular activities assigned(Organizing student chapter /Value added courses/MOU activities/Guest lecture/Symposium/Industrial Visit/FDP /Workshop)
5. Paper publications in indexed journal with impact factor :
6. Funded projects/grants received/Consultancy received, applied/ Award and patents received/registered
7. Quality of the projects
8. Contribution at college level
9. Counselling and assisting the Student
10. Feedback report of students from HOD

The evaluation process reviews the performance appraisal for suitable suggestions and remedial actions for regularizing the staff.

Non – Teaching Staff

The accountability and involvement of the non – teaching staff are also assessed. The components of assessment are as follows:

1. Task Execution
2. Skill upgradation
3. Higher Studies
4. Punctuality
5. Work Discipline & Maintenance
6. Dress Code & Neatness
7. Active participation in team work

File Description	Document
Any additional information	View Document

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

Internal audit:

Our Institution conducts internal financial auditing on regular basis. We have a well-defined mechanism

to inspect the usage of funds. The process of auditing starts with the budgetary preparation and there is well defined process for sanction of budget. The approved budget is communicated to all the department in-charges and administrative in-charges. Based on this, monthly budget is prepared by all the department and administrative in-charges. The Chairman monitors and reviews the expenditures of the Institution by conducting budget meeting. The budget meeting takes place last Monday of every month. The monitoring of expenditure against budget is regularly undertaken annually, where all department in-charges and administrative in-charges submit their annual expenditure statement to the Principal and it is forwarded to the Chairman. The main purpose of this procedure is to control the expenses and increase the operating efficiency. Proper record for all budget expenses is maintained by each department in-charges, administrative in-charges, accounts department, and the Principal office. Further the accounts department maintains the record of all the expenditures after the verification of vouchers and bills.

External auditing

Our Institution complies with the statutory auditing norms. At the end of every financial year, the income and expenditure statement is duly audited and authorized by a Chartered Accountant. The Chartered Accountant prepares and submits the auditor's report for the financial year. The report exhibits that the statements are presented fairly in all material respects – that our Institution show a true and fair view in the financial position, results of operations, and cash flows.

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

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

Response: 13.95

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

2017-18	2016-17	2015-16	2014-15	2013-14
8.31	2.02	1.97	1.65	0

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

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

Response:

Mobilisation of funds

The institution mobilises the funds through the student fees who are admitted as per regulations laid by Tamil Nadu Government Higher Education. Another source of fund is through the internal revenue that is the interest obtained from deposits of fund.

Other sources of financial revenue include:

1. Workshop, Training & Consultancy
2. Participation fee in various conferences, seminars organized by the Institution.
3. Establishment of Industry sponsored lab.
4. Research Project grants

The financial resources obtain from above mentioned sources are utilized for their respective activities.

Utilisation of funds

Institute has been planning towards efficient use of budgeted fund for each academic year. According to the guidelines specified by the Management and Principal, report of sanctioned budget and actual expenses are periodically year wise and monthly –wise is maintained. The fund is optimally utilised for the Students, Staff, laboratory, infrastructure, Library, etc.

The fund is utilised for students activities such as organising symposium, the winners of technical symposium attended in other colleges are provided with TA/DA and registration fee. The fund is also utilised for placement training and development programmes, value added courses, trust awards, cash award for rank holders, achiever's day, guest lecturers and industrial visits. Apart from this the institution also provides financial assistance to student for participation at various national and state level cultural and sports competition.

The budgeted fund is utilised for purchase and maintenance of equipment and machines in the laboratory. The purchase of equipment's, machines and software is done with an efficient team, Purchase Committee, comprising of six senior faculties. Whenever the requirement for purchase of equipment arises, the department in-charge gives a requisition to the Principal. After the Principal approves, it is forwarded to the Chairman for final approval. The approved purchase requirement is handed over to Purchase Committee. The Committee invites for 3 different quotations, and finalizes the vendor on the basis of quality, service support, product specifications and price of the product. The Committee further negotiates with the vendors for fixing the price. Finally, the Purchase Committee prepared the purchase order to purchase the equipment. This exhibits an efficient utilization of budgeted money. Further, the fund is used for the payment of salary towards teaching, non-teaching staff and administrative staff. The management also supports the staff by providing registration fee for attending conferences, workshop, FDP

and other technical events. The fund is also used for the purchase of online journals, magazines, text books and reference books. The mobilisation of fund and utilisation of the fund is reflected in the income and expenditure statement.

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

6.5 Internal Quality Assurance System

6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

Response:

Response: 1

VALUE ADDED COURSES

To enhance the quality in academic and administrative domains, various IQAC strategies are institutionalised 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 attend workshops. These courses develop in them an urge to keep them updated on the latest trends and improves their technical skills further.

These courses offer our students an edge over the others and have the following advantages:

- 1. Enhances learning skills, technical knowledge, creativity and ability to innovate.**
- 2. Exposure to recent trends in the core field augmenting the employability of the students.**
- 3. Ability to compete with students at a global level.**
- 4. Enables students to learn and understand the use of modern research tools.**
5. The value added courses are offered for all the students in the fourth and sixth semester.
6. It will be a - **54 hour (6 days)** program and students are divided into batches of 30 for better learning. In the academic year 2016-2017 a total of **6476** students have benefited from these courses.

Response: 2

Class Monitoring Committee (Student feedback mechanism on Faculty Performance)

The IQAC focuses on the continuous improvement of the Faculty Performance through proper

feedback system and institutionalized the mechanism. The main objective of this committee is to collect the Student feedback on Faculty Performance. **This committee comprises 2 senior Faculty members in each Department**

- Senior Faculty members are given the responsibility of collecting feedback from students belonging to that class to ensure free and fair response.
- A structured proforma consisting of important parameters pertaining to teaching learning process has been designed for the purpose of collecting students' feedback.
- The responses are analysed by the HoDs and the Principal, and the feedback is communicated to the faculty members concerned wherever necessary, for their improvement.
- Students feed back on value added programme conducted (for example Guest lectures, seminars, Industrial visits , etc.) is obtained at the end of the programme by distributing questionnaire on the event.
- The feedback is entered into computer and the ratings given by students are calculated to arrive at a cumulative index which will denote the rating of the students for the faculty in a given subject. Further, parameter wise rating also noted for certain parameters to identify the strength and areas for improvements for the faculty. 5 – Excellent, 4 – Very Good, 3 – Good, 2 – Fair, 1 – Poor
- The subject knowledge, presentation skills, and the readiness of the faculty to help the students in case of clarifications, additional inputs given in the class and other factors could be inferred from the feedback.
- The inputs are communicated to the faculty members through HoD by the Principal for suitable improvements. Besides, the inference is discussed with the faculty members during the annual faculty appraisal.

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

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

Response:

Response: 1

Institute has well planned teaching learning process and has robust methodology for rolling out the process. At the same time there is well-planned structure, as per the Guidelines of IQAC, to review the Teaching Learning Process. There are various teaching learning Processes like Subject Allocation, Preparation of Academic Administration Plan, Cluster mentor meetings, Student mentoring etc. Each of these activities is planned by the faculty and is reviewed thoroughly before rolling. Once the activities are rolled out, their progress is monitored as per the type of activity. The outcomes are analyzed and discussed with concerned faculty for further improvements.

Project Reviews: Quality Improvement Initiative

Project Review is a two-semester process in which students pursue a group-based project on a question or problem of their choice in their relevant disciplines. With the guidance of a project guide, a substantial work is carried out that reflects the understanding of the project.

The Process

Final Year Project committee plays a very significant role in putting guidelines for execution of the Student Project Activity. At the end of Semester-VI, Division-wise Orientation program is scheduled by Project Co-coordinator. It highlights detail about the emerging areas in their respective discipline. After the Orientation Program, students submit a Groups form indicating the area of interest. Mapping of Guide area of specialization/ interest and Domain preference submitted by students takes place. Project Groups and Guides collaborate and come up with as many Project Ideas as possible. The Guide checks the preliminary feasibility and final three ideas are decided. An Expert panel of Faculties within the Department is setup to monitor the progress of Project Approval Process. They provide constructive feedback to Project Groups and Guides for enhancing project quality. If project idea is accepted, then project title is fixed and respective guide is informed.

Project Review day is allocated during 7&8 Semester. The Project guide continuously monitors this project. On monthly basis, Projects are revived on a Project review day for tracking the project performance. Expert panel members are nominated to validate the presentation of the group's performance and they provide valuable suggestions/ improvements. Students are encouraged to publish their work in reputed journals/conferences and participate in Inter College Project Competitions to exhibit their work. At the end of semester students submit their final project report, which is evaluated in End Semester .

Benefits of the project work

- Develop Application Based Projects
- Inculcate Project Based Learning
- Get feel of Industry oriented project start - ups
- Develop confidence for initiating start-ups

Response: 2

NPTEL ONLINE CERTIFICATION COURSE

IQAC understands the importance of the opportunities to explore new areas of interest – which are not possible in regular college environment so that our Students were encouraged to join NPTEL Certification courses with the objective of enabling students obtain certificates for courses is to make them employable in the industry or pursue a suitable higher education programme.

Through an online portal, 4-, 8-, or 12-week online courses, typically on topics relevant to students in all years of higher education along with basic core courses in sciences and humanities with exposure to relevant tools and technologies, are being offered. The enrolment to and learning from these courses involves no cost. Following these online courses, an in-person, proctored certification exam will be conducted and a certificate is provided through the participating institutions and industry, when applicable.

- Enables the student to directly engage and learn from the best faculty in the country in that particular subject. This strengthens the fundamentals of the student in the course
- Also gives students the opportunity to learn in greater depth the subjects they wish to master. These courses are also serving as faculty development programmes 15-20% of enrolments are made by our faculty .
- These courses also bring out the self-learning initiative of the students – where their own motivation is what drives them to complete the course and not external compulsions. This fosters the habit of keeping oneself updated always by means of self-study.
- The certificates issued bear the stamp of CCE, IIT and hence are valuable additions when the student is applying for jobs.
- Companies can also dig into this pool of candidates with specialized skills – in case they wish to recruit.

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

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

Response: 39

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

2017-18	2016-17	2015-16	2014-15	2013-14
52	56	34	34	19

File Description	Document
Number of quality initiatives by IQAC per year for promoting quality culture	View Document
Any additional information	View Document
IQAC link	View Document

6.5.4 Quality assurance initiatives of the institution include:

- 1.Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback collected, analysed and used for improvements**
- 2.Academic Administrative Audit (AAA) and initiation of follow up action**
- 3.Participation in NIRF**

4.ISO Certification**5.NBA or any other quality audit****A. Any 4 of the above****B. Any 3 of the above****C. Any 2 of the above****D. Any 1 of the above****Response:** B. Any 3 of the above

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

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

To enhance the quality in academic and administrative domains, various IQAC initiatives are implemented incrementally so as to keep in pace with the expectations of stakeholders like students, industry and society. Few are mentioned below:

University Results and Ranks

Our institution has made serious efforts to improve the performance of our students through high quality of teaching using new technologies and tools which are in line with the curriculum. The tremendous potential is very clearly reflected in the university results and the ranks bagged by our students.

The College has bagged the highest number of University Ranks a total of 132 ranks in popular branches for the 13th consecutive year in Anna University Examinations held in May 2018.

The students are encouraged to get University ranks and they are motivated by the institute and lauded by shields and Cash Prizes which includes **Rs. 50,000/-** each for the **Gold Medal**, **Rs.25,000/-** each for all other **Rank Holders**.

Training and Placements;

Centre for training and placement of St. Joseph's is largely responsible and committed towards the identification and catering to the need of training the students so that they are able to develop a good personality; and assist them to find right job and help them place in right company. The main aim of this department is to empower our students to take up the future campus recruitment with confidence.

The students are recruited by many leading organizations like Cognizant Technologies, Wipro, Infosys, Ashok Leyland, WheelsIndia, Soliton Technologies, AMAZON, Verizon, GE Digital, Juspay Mu-Sigma, Comm Vault, Global Analytics, E-Con Systems, Sirius Vembu Technologies, Tech Mahindra Solution Technologies, HDFC, ICICI, IDBI Federal Life Insurance, Mr. Copper, Bajaj Capital, DHL Logistics, Yes Bank, ITC Ltd, L&T, Zoho, Naukri.com, HCL, Hewitt, Renalult Nissian, Virtusa, RBS, Accenture, Mindtree, KotakMahindra Bank, Pepsico etc., with a salary ranging from 3.2 lakhs to Rs 12 lakhs per annum.

Higher Studies;

The ABHS (Advisory Bureau For Higher Studies) was inaugurated in the year 1999. Ever since it is functioning as a separate wing and its objective is to serve the student community for getting admission to higher studies in India and abroad with a main objective to enable students to prepare for tests like GRE, TOFEL, GMAT, IELTS, GATE, CAT etc. The students can access ABHS for getting any information about various universities and the courses they offer. The records show the significant improvements year after the year.

Our Students are pursuing their higher studies at various Universities in India and abroad. Students have got admission into top ranking Universities like University of Texas, Stanford University, Carnegie Mellon University, University of Massachusetts, Arizona State University, North Carolina State University, National University of Singapore, Illinois Institute of Technology, NJIT, University of West Virginia, Leeds University (UK), North Carolina State University, IITs, IIMs, NIITs etc, through our Advisory Bureau for Higher Studies (ABHS).

The Table showing *Incremental improvement made for the preceding five years*

Year of passing	University Result			Placement		ABHS			ANNA UNIVERSITY RANKS		
	Pass % (UG)	Pass % (PG)	Total University ranks	Gold medals	Silver medals	Other ranks					
2018	79.16	94.81	823		128	132	4	4	122		
2017	77.03	93.09	898		165	97	3	2	92		
2016	79.85	82.08	888		187	120	6	5	106		

2015	81.56	83.02	828	192	106	0	0	106
2014	78.71	72.42	697	187	107	4	1	110
File Description					Document			
Any additional information					View Document			

NAAC

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

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

Response: 14

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

2017-18	2016-17	2015-16	2014-15	2013-14
5	4	4	1	0

File Description	Document
Report of the event	View Document
List of gender equity promotion programs organized by the institution	View Document
Any additional information	View Document

7.1.2

1. Institution shows gender sensitivity in providing facilities such as:

1. Safety and Security
2. Counselling
3. Common Room

Response:

Response:

St. Joseph's College of Engineering's policy guidelines for admission, recruitment, and administrative function safeguard the interests of the students, faculty and staff members without any gender differentiation. The following measures are strictly practiced to prevent the occurrence of social issues pertaining to gender sensitivity.

The academic ambience of the college promotes sensitivity and respect for each other. All programs offered by the college are common to all- irrespective of genders without any bias or reservation. A gender friendly classroom environment and its overall management build harmonious relations between boys and girls. Equal participation of boys and girls in teaching learning process is ensured with allocation of responsibility of organizing technical events equally to both boys and girls.

The institution aims to groom students to be self-reliant, specialists in their chosen discipline, effective communicators, respectful of different cultures, socially responsible, aware of their social and civic responsibilities, sensitive to gender issues with zero tolerance towards sexual harassment, women safety and security, and environmental consciousness.

College makes efforts to maintain gender balance among the faculty members with more than 50% of female proportion. Similarly, the numbers of women in the housekeeping departments are also high.

All new faculty recruits undergo an induction program to understand the needs, concerns and characteristics of diversified people including women in the campus. The college ensures the participation of women students in intra and inter-institutional competitions and cultural activities. They are active members of cultural and sports and participate in District, University, State, and National and International level of competitions.

The following measures are strictly practiced to prevent the occurrence of personal and social issues especially toward gender sensitivity.

SAFETY AND SECURITY

The college has taken extreme care with respect to security of all the inhabitants of the campus.

- All the students are allowed to travel only by the college buses for the safety of the students and private vehicles are not encouraged.
- CCTV surveillance and monitoring is available throughout the campus for safety reasons.
- Students and visitors are allowed on the submission of identity cards and proof of identity respectively.
- Checking of vehicles and people at all exit and entry points
- In hostels, wardens and floor in charges are available 24x7 for in-house security purposes
- During weekends, the hostel students are taken outing along with hostel in charges in order only through the college buses to provide a secured environment even during shopping.
- Medical and ambulance facility are being provided for medical emergencies.

COUNSELING

As per the guidelines of MHRD and AICTE, the college has established “*Student’s counseling Centre*” comprising of a Professional Psychiatrist and two senior faculty of the institution to address the issues related to sexual harassment and other genders specific problems.

General Counseling: In addition the college has also established a “*Grievance and Redressal Committee*”, which pays utmost priority to students counseling regarding various genders specific issues. This committee carries out counseling as and when needed to the female students in groups and at individual level. Personality development sessions are being regularly organized for overall development of the students by inviting resource persons from different organizations.

Academic Counseling: Students at the time of admission are counseled on choosing their preferred program by senior faculty members who guide them to take appropriate choices based on facts and figures.

At the department level, for every 15 student one faculty mentor is appointed who counsel the students in

dealing with personal matters like mental stress, depression, general disinterestedness in studies; personal care is taken by the advisors to build the confidence and morale of the students who are in low spirits. In addition they also help the students in academics, co-curricular and extra-curricular activities and making career choices.

COMMON ROOM

Separate common rooms are available for boys and girls. The girls' common room is made available for girl students to take rest and other personal and medical needs. It is provided with washrooms, dressing mirrors, newspapers. Availability of '*sanitary pads*' and other personal needs are ensured in the common room. There are two female attendants who ensure safety of girls and also maintain cleanliness in the common room. This room is located in on ground floor itself for better and easy access.

As a unique practice, the college permits the girl students and staff members to avail a special leave of 2 days per semester termed as '*Necessity leave*' in view of anticipated physiological needs during menstrual cycle.

By all the above means, St. Joseph's College of Engineering offers true spirit of education is being practiced in the campus i.e. no discrimination against caste, creed, religion and gender.

File Description	Document
Any additional information	View Document

7.1.3 Alternate Energy initiatives such as:

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

Response: 1.17

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

Response: 16790

7.1.3.2 Total annual power requirement (in KWH)

Response: 1437941

File Description	Document
Details of power requirement of the Institution met by renewable energy sources	View Document
Any additional information	View Document
Link for Additional Information	View Document

7.1.4 Percentage of annual lighting power requirements met through LED bulbs

Response: 5.28

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

Response: 9.5

7.1.4.2 Annual lighting power requirement (in KWH)

Response: 180

File Description	Document
Details of lighting power requirements met through LED bulbs	View Document
Any additional information	View Document

7.1.5 Waste Management steps including:

- Solid waste management
- Liquid waste management
- E-waste management

Response:

Response:

The Institution is conscious of its responsibilities to the environment and has taken the following initiatives to maintain an Eco friendly campus:

Solid Waste Management:

- The major solid waste which is generated in the Campus includes Paper, Leaf litter and Kitchen waste.
- All departments and classrooms are provided with dustbins for dry wastage which are emptied every evening. Segregation of waste from the dustbins is done regularly, thus maintaining the Campus and keeping it clean and green.
- Single sided used papers are reused for writing and printing in all departments.

- Metal and wooden waste is stored and given to authorized scrap agents for further processing.
- From the kitchen and mess the food waste is collected and given to authorized agents for further processing.

Liquid Waste Management:

- The College posses Sewage Treatment Plant to treat waste water more than 2,00,000 litres /day that are received through the underground pipe lines. Then the sewage is transferred to collection tank and again pumping to aeration tank. The above treated water is passed through Final treatment tank. Then it is directed to Sludge pumping clarifier tank and then to Sludge drying beds. After the treatment, it is sent to composting pits through leaves barrio filter. The Compost is used as natural organic manure for garden. Then the water is flowing into the final tank. The filtered water is then collected in a sump and the water is pumped to the entire college garden through overhead tank and sprinkles.
- Periodic check-up of plumbing lines is undertaken to ensure minimal loss of water due to leakage.
- Effective reuse of waste water from RO plant is being used for irrigating the green areas.
- Special Bio-chemical wastes are disposed only after decontamination standard procedures.

E-Waste Management:

- Most of the new electronic instruments, computers and peripherals are purchased under 'Buy Back Scheme' so that we do not accumulate e-waste.
- All electronic equipment used in the campus are regularly maintained and repaired to ensure minimum e - waste.
- UPS Batteries are recharged and repaired by the suppliers.
- The e-waste generated from hardware which cannot be reused or recycled is being disposed through government authorized vendors.

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

7.1.6 Rain water harvesting structures and utilization in the campus

Response:

Response:

- To sustain the ground water availability, the institution has adopted rain water harvesting system.
- Rain water harvesting is carried out at different locations in the campus.
- The rain water harvesting pits were constructed as per the standard guidelines.
- The rain water is diverted through wide shallow channels spread over the entire campus, thus ensuring the conservation of rainwater.

- All open terraces are fitted with collection pipes to route rain water and sent to the ground through designed drains. Drain connected from all the building flow towards lower level through external drain.
- Gardens are watered using drip/sprinkler irrigation system to save water.
- The institute ensures that the water wastage is minimized through regular check and corrective measures taken on leaky taps and pipes, overflow from overhead tanks etc.
- Drinking water is treated in two RO plants which has a capacity of 1500 lit/h.

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

7.1.7 Green Practices

- **Students, staff using**
 - a) **Bicycles**
 - b) **Public Transport**
 - c) **Pedestrian friendly roads**
- **Plastic-free campus**
- **Paperless office**
- **Green landscaping with trees and plants**

Response:

Green Practices

- **Bicycles**

In St. Joseph's, as a regular practice only bicycles are used inside the campus for moving around various parts of the campus. For which the management has provided 15 bicycles to its supporting staffs for movements inside the campus.

- **Public Transport**

Institute encourages mass transport system to reduce air pollution caused by individual vehicles. Institute has its own transport system with 74 college buses plying over various routes. Students and the staff members are allowed to travel only through college buses; private vehicles are predominantly avoided and used only during the emergencies.

- **Pedestrian friendly roads**

Since the vehicle movements are completely avoided in the campus, the roads are freely available for pedestrians. Separate roads are made for vehicular traffic, which are restricted only in the periphery of the campus.

- **Plastic-free campus**

In order to aid in better pollution abatement use of plastics is not allowed in our campus. Stainless steel tumblers and snacks plate were used for providing tea and snacks.

- **Paperless office**

Most of the communications are done by sending mails among the staff members. Circulars and notifications are sent by using electronic methods such as mail, and SMS. For this data transfer a separate mail id is created using an extension @stjosephs.ac.in, through which inter and intra office communication are sent. All kinds of paper waste are sent for recycling to ITC Ltd through Wellbeing Outof Waste - a national Recycling initiative . The vendor collects the waste material, calculates the amount and compensates the amount with new paper bundles. Usage of paper on campus is minimized and in order to curtail excess paper usages for hardcopy printing, the printing is done on two sides.

- **Green landscaping with trees and plants Response**

Institution maintains a clean and green environment within the campus. The Institution ensures the green environment by establishing a separate estate maintenance wing. Over the last five years Rs 31.84 lakhs had been spent towards green initiatives and waste management excluding salary component of the employees. This maintenance team takes care of the up-keeping of the environment and ensures to keep the surroundings clean. It maintains the lawn and plantations by employing gardeners and sweepers.

Our Institution takes more interest in maintaining green campus and eco–friendliness which provides pure oxygen within the institute. The campus looks green by planting more trees which gives a pleasant feel for the students to learn and for the faculty members to work. Many initiatives are taken by the management to inculcate the eco–friendly culture among the student community. The lush green campus provides the facilities such as Rain Water Harvesting, Well Grown Trees and Water Reuse Treatment Plant.

In addition to this organic farming is practiced inside the campus using biodegradable organic waste as manure to showcase the importance of it, to the future generation who are our students.

The students and faculty are encouraged to plant more trees and making the campus garbage and plastic free zone.

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

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

Response: 1.06

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

2017-18	2016-17	2015-16	2014-15	2013-14
7.35	7.08	6.62	5.64	5.15

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

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

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

A. 7 and more of the above

B. At least 6 of the above

C. At least 4 of the above

D. At least 2 of the above

Response: B. At least 6 of the above

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

7.1.10 Number of Specific initiatives to address locational advantages and disadvantages during the last five years**Response:** 20

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

2017-18	2016-17	2015-16	2014-15	2013-14
4	4	4	4	4

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

7.1.11 Number of initiatives taken to engage with and contribute to local community during the last five years (Not addressed elsewhere)**Response:** 34

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

2017-18	2016-17	2015-16	2014-15	2013-14
7	6	7	8	6

File Description	Document
Report of the event	View Document
Any additional information	View Document

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

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

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

Response: Yes

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

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

Response: Yes

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

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

Response: Yes

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

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

Response: Yes

File Description	Document
Any additional information	View Document
Provide URL of supporting documents to prove institution functions as per professional code	View Document

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

Response: 32

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

2017-18	2016-17	2015-16	2014-15	2013-14
6	6	7	6	7

File Description	Document
List of activities conducted for promotion of universal values	View Document
Any additional information	View Document

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

Response:

Our students are on a mission towards better India. They come together breaking the boundaries of religion and caste. The institution celebrates Days of National Importance like '**Independence Day**' and '**Republic day**' with fervor and festivity. Death and Birth anniversaries of great personalities are celebrated meaningfully. College has constituted 20 awards to the outgoing students with academic excellence in each department by the name of the great leaders and personalities.

- Dr. M.G.R Award
- A.P. Baulraj Award
- Abraham Lincoln Award
- Mother Teresa Award
- Dr. A.P.J. Abdul Kalam Award
- Kalpana Chawla Award

- Martin Luther King Award
- Deiva PulavarThiruvalluvar Award
- M. Visvesvaraya Award
- Mahakavi Subramaniya Bharathiar Award
- Pavendar Bharathidasan Award
- Dr. S. Radhakrishnan Award
- Annai Janaki M.G.R Award
- Perunthalaivar Kamarajar Award
- Arignar Anna Award
- Nelson Mandela Award
- Sir C. V. Raman Award
- Srinivasa Ramanujan Award
- C.K Prahalad Award
- Dr. Muthulakshmi Award

The institution has given these awards to recall the events or contribution of our leaders in building the nation. Thoughts of personalities are sowed into the young minds through these awards.

To recollect the contributions of Dr. S. Radhakrishnan, Teachers day is celebrated on September 5th to recognise the noble profession of the teachers. Similarly Dr. Mokshagundam Visvesvaraya contributions are remembered by the celebration of Engineers day on 15th September, to recognize the achievements of Engineers. Tamil Pattimandram is conducted for remembering the birth anniversary of Dr. M.G.R.

The following National Festivals are celebrated in our campus with enthusiasm.

IFDHAR Our College celebrated Ramzan. All the Muslim students in our college undergone fasting within the campus. "Sahar" and "ifthihar" are arranged inside the campus.

VinayakaChathurthiOur college celebrated Vinayakachathurthi. Lord Vinayaka's birthday was celebrated by decorating the Ganesha Statue in our college temple with flowers.

Onam The festival of rice harvest was celebrated with great spirituality and delight. Malayali students dressed up in their traditional wear and performed kaikottikali, Malayalam pattu and Nadakam.

Ayudhapooja Our College celebrated Ayudha Pooja. On this special day, all the laboratories and office were beautified.

Deepavali The festival of lights is celebrated with full delight and enthusiasm. This festival is celebrated with lights and crackers by the students in the campus.

DeepamKarthigaiDeepam is celebrated on the full moon day in the Tamil month of Karthigai. The deepam celebrations took place in our college with lamps lighted.

PadipoojaThe festival was celebrated in our college by decorating the holy steps of Ayyappa with flowers and silk clothes and lighting traditional lamp. Traditional songs were sung in pooja.

Christmas The Christmas celebrations took place in our college campus. On Christmas day, a special mass

was conducted in our college chapel

Pongal This joy-filled Pongal occasion was celebrated in our college. The day's lunch was served with different varieties of Pongal.

UgadiOur college celebrated Ugadi. The Telugu New year festival popularly called as Ugadi comes close on the heels of Holi.

File Description	Document
Any additional information	View Document

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

Response:

The institution maintains transparency in its financial, academic, administrative, and auxiliary functions in a very clean and fair manner. Ethical and responsible conduct permeates the institution, from its financial functions, through its academic and personnel policies, to its varied auxiliary functions. To ensure that the institution operates transparently and openly in all activities, it develops and updates policies. College has a dynamic history of policy review/revision that reflects the institution's ongoing commitment to integrity and ethical actions.

Every transaction is through bank and a receipt is promptly issued whenever it is necessary. The receipt and payments are done through bank. The salary of the staff is deposited in their accounts through the bank. The disbursement of scholarships and other monetary benefits to the students is done through banks. The institution endeavors to ensure all financial transactions, reports and documents are completed with integrity, and that the institution presents timely and accurate information to the statutory authorities and stakeholders. The Institutional mechanism for monitoring the effective and efficient use of financial resources is the Financial Committee consisting of Governing Council. The Council is assisted by the experts to finalize matters relating to fee structure and the budget provisions of the college.

The details pertaining to the staff qualification, designation and all other pertinent details are displayed in the Mandatory disclosure.

Auxiliary functions are conducted in a transparent way. Recruitment of faculty & all necessary procedures are practiced as per the guidelines given by AICTE and Anna University. All circulars regarding, students, teaching staff & non teaching staff are circulated & displayed on the notice boards. Planning & execution of different auxiliary functions are discussed in the Academic Council meetings. The decisions taken are communicated to all stake holders of our institution. For this purpose, decisions are taken in Academic council meetings. The minutes of the academic council meeting is circulated to all the staff members through e-mail. All circulars regarding, students, teaching staff & non teaching staff are circulated, read in all the classes & displayed on the notice boards. In addition e-mail is sent to all the staff and students. The internal assessment marks are displayed in the students web portal periodically. Student's internal marks are sent to the parents as SMS. Unique student ids are given to each student and official communication are

done through the same.

File Description	Document
Any additional information	View Document

7.2 Best Practices

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

Response:

Institutional Best Practice 1:

Title of the Practice:

Placement support activities and its impact on Quality Placements

Objective of the Practice:

To design a need based placement support activity from aptitude training pattern to product based core training.

The context:

The demands of today's competitive job market dictate and decide the preparedness for the employment. Appropriate Training programs have been formulated after a thorough analysis of requirements of various industries and the training program is executed with the help of reputed training Institutes. They enable our students to gain a competitive edge in the recruitment process, groom their confidence and develop their personality. The uniqueness of our college placement orientation activities lies in not only enhancing the technical knowledge, but also makes the students plug and play by imparting soft skills and product based employability skills.

The Practice:

The uniqueness of our Centre for Training and Placement is prevalent through the execution of meticulous planning and systematic schedule of Placement support activities.

- **Communication skills enhancement:** This initiative is been organized for our First year students during their 1st & 2nd Semesters. The outcome of this 48 hour program is to develop their ability to convey ideas with clarity, confidence and assertiveness.
- **Business English Certificate (BEC)** programme assess the students prior to the training to make different levels like *Vantage*, *Preliminary* & *Basic* in order to give individual attention so as to improve their confident level.
- **Aptitude Crash Course:** The intent of the training program for our first & second year students to make them proficient in the basic fundamental concepts and to apply basic concepts of

mathematics.

- **Weekly Online Aptitude Assessments:** As we understand that the assessments are a vital part in improving the students' aptitude skills. We offer the students an Interactive, learning-centric, user-friendly, robust test taking platform which gives immediate, insightful performance report with detailed explanation.
- **Quantitative Aptitude Programme:** Ability to apply basic concepts of mathematics coupled with analytical reasoning skills to solve problems
- **Aspiring Mind's Computer Adaptive Test (AMCAT):** This a computer adaptive test ensures the student's proficiency on critical areas like communication skills, logical reasoning, quantitative skills and job specific domain skills.
- **Cognizant Certified Student Program (CCSP):** It consisting of a series of mock tests to assess the students' capabilities and helps in equipping key skills in the areas of Aptitude, IT and Software Engineering relevant to Personality and Workplace Competency.
- **IT Refresher Training:** An IT Refresher Course provides a platform as well as resources to help students understand the recent advancements in various fields, which would help them refresh & enhance their knowledge base.
- **Mock Interviews:** An opportunity to practice one's interviewing skills in an environment similar to an actual interview and to become familiar with interview questions and interview etiquette.
- **Co-cubes Pre assessment Test:** It is an online test which measures the student's proficiency on critical areas like communication skills, logical reasoning, quantitative skills and job specific domain skills. Students will get many opportunities to attend campus interview based on their Pre-assess score itself
- **Ebox Portal:** It's an online technical portal where students can practice and up skill the student's technical competency.

Evidence of Success:

We have experienced a huge improvement in the student's aptitude skills after we expose them with the Online Assessment System. A noteworthy improvement in our student's performances such as

- Logical reasoning and analytical ability
- Decision making and problem solving skills
- Basic numeracy and quantitative aptitude
- Techniques and tricks to perform data interpretation
- Enriched vocabulary and improved linguistic proficiency
- Confidence to face competitive examinations for jobs and higher studies

Our college has been listed in **Top ten Engineering colleges** as per **Infosys training performance**

Cognizant Best Outgoing Student Award: Cognizant has instituted a Best Outgoing Student award for our college & annually one student of the final year who has demonstrated high potential in various categories of excellence will be honored with "Cognizant award".

Employer Testimonials: Cognizant and Infosys have given excellent testimony for our placement support activities and its output measure in term of well trained industry ready employees

The implementation of training has resulted in the increase of the placements by 20% in the year 2018-2019.

Problems encountered and Resources Required:

Placement support training activity is one of the most highly celebrated practices across St. Joseph's campus. Still, it encounters problems that the management strives to solve.

- Well training faculty with Soft skill and technical skills knowledge are required to assist the process training.
- At times, due to lack of commitment of some students close monitoring and mentoring by faculty is required. To make the mentoring system effective, training is imparted to faculty on counseling and handling the students.

Infosys Campus connect Program: They organize seminars and training sessions for the faculty to give them an industry perspective, enabling them to train the students accordingly. The course design is based on industry-oriented topics and is delivered to students

Cognizant Faculty Development Program: Cognizant offers various career development program for the faculty who are training the students to enter the corporate world and introduce them to the prospective employers according to their aspiration & background

In a nutshell the St. Joseph's Center for training and placement not only makes the students job savvy but also moulds the students to strike out the correct needs of the corporate world to succeed in their aspirations

Institutional Best practice 2:

Title of the Practice:

Impact of Student support activities and on Co-scholastic achievements

Objective of the Practice:

To motivate and support the students for their co-curricular achievements and towards their all-round development.

The context:

St. Joseph's objective is not just to help its students secure a degree but to also prepare the students with readiness to face any challenge in their life at any time. We believe that the number of years spent by the students on its campus is extremely impactful as that period witnesses their transformation from adolescence to adulthood. With a deep understanding of students and faculty mindsets gleaned over two decades, the college has formulated list of practices to promote a culture of competitiveness and achieve laurels in co-curricular events.

The practices:

Communication skill enhancement: All the first year students are attached to student counselors. These mentors apart from academic counseling they also help the students to break their inhibitions to face extracurricular events and exhibit their talents with confidence. The skill enhancement includes memory

games, tongue twisters and basic grammar using the play game methods etc. Also listening to audio and video clippings will serve the dual purpose of motivating them and teaching them language. Peers scaffold them and help to come out of their shells.

The Business English Certificate (BEC), a certification programme from Cambridge University, which is specifically in English for work. A diagnostic test, where the tasks and questions are taken from workplace situations is being conducted and students are categorised in to four areas: listening, speaking, reading and writing. This develops, the competencies needed for current and future needs

Interpersonal skills development activities: For the second year students the focus is on developing soft skills to develop their efficacy in handling situations. The focus for the third year and final year students is on employability skills. They are trained in developing a positive attitude, team skills, adaptability, negotiation skills, critical thinking and personality development. Thus, all these activities help in making students more employable and competitive in the global market.

Technical training: To keep in pace with the latest technologies pertaining to students desire and inclination, a technical value added course is organized for all the pre-final year students. The course bridges the perceived technical competency gaps between academics and industry. The credentials gained through these courses are very helpful in placement and shows their preparedness to take up the challenge ahead.

Student workshops: Our College organize workshops on current technologies in association with reputed industries as well as with student chapter organizations to impart necessary skills for best transition from an Engineering student to an Engineering Professional. These workshops enhance the theoretical concepts learnt by students with hands on practical sessions as well provides an outline for many emerging technologies that are not covered in the syllabus.

Mini projects: Mini projects for engineering students gives an edge over the race of recruitment to work hard to ensure a good career. More than the employment practices in recent times students are progressively taking up mini projects to pad up their skill set. In spite of practical concepts that one acquire, various industries also need to know students capacity to complete projects using their specific initiative. Hence, we recommend students to do short term engineering projects during their four years of engineering.

Project review process: The best way to master a subject is by doing projects. Through the project, the students not only get a deeper understanding of the subject but also gain hands on practical experience. We insist our students to choose the final semester project title in their area of interest in the third year itself. Based on their domain of interest, we allot team members and internal supervisors to each of the project batches and pave way for them to develop their practical and entrepreneurial skill. After title selection, the panel members conduct zeroth review for the students to check the feasibility of their project idea, relevance and applications.

INAE Awards: The Indian National Academy of Engineering (INAE) encourages inventions, scientific investigations and research by awarding National level best project awards. Every year we nominate potentially innovative final year projects for this highly reputed recognition. For nomination, we follow a two-tier selection process where the initial short listing will be done by the respective Head of the Department. The shortlisted nominees will be invited to make a presentation before the College level panel members. The best and the deserving projects are finalized and nominated for Innovative Student Projects

Award.

Quality Improvement Cell: QIC of our College, on collaboration with IIT Bombay and Anna University conducts online workshop that covers Free Online Software Source (FOSS) such as Latex, Java, C/C++, Scilab, PHP and Python etc. Following the workshop students are provided with study materials to help them in facing 45 minutes objective type online test after three weeks of the workshop. Students who succeed in the online test are given an e-IIT certificate on their successful completion of the workshop. These workshops create awareness and interest among the students in learning the new programming software.

Hackathathon challenge: To establish a permanent platform to harvest the creativity and energy of our youngsters, we insist our students to participate in National level Coding challenges. Taking care of the safety and security of students, a staff coordinator accompanies the students and travel to various nodal centres assigned and encourage doing well in Grand finale. The Placement and Training Centre organizes additional training programs for the students to compete in these challenges.

Club activities: We have various clubs like Mathematics Club, The English Club, The Tamil Club, The Quiz Club, The Science Club and Robotics Club etc in the campus. The club members meet once in a month and competitions are held for the students. The students' winners are encouraged with Cash Awards and Merit Certificates.

Entrepreneurship Development Cell: The Entrepreneurship Development Cell of our campus was established with the objective of creating, fostering and promoting the spirits of entrepreneurship among the students. ED Cell has created an atmosphere in campus to inculcate and enrich the entrepreneurial spirit by creating an accessible and exhaustive set of resources.

Technical Competitions: Technical competitions are where young brains get to showcase their skills and compete with others to find the best. Such inspiring events that happen in various colleges will guide engineers to dream bigger and make them realised. To provide this great platform, our college grants *On-duty permissions* to all the students who desire to add colours to their resume. The prize winners of college level '*Intra department symposium*' are encouraged and given priority to participate in the technical competitions in other colleges. A technical paper screening committee consisting of peer staff members is established at all departmental levels to guide the students to submit papers for symposiums. Our group Chairman periodically meets and encourages these winners for their achievements. The event registration fees, travelling and food expenses are reimbursement to the winners who bag the title of the events. The deserving winners are brought to *lime light* by publicity through daily news papers and media TV channels. This makes the young minds highly motivated to do better achievements year by year.

Achievers day: Achievers day is celebrated every year during the last month of the academic year, in which students who brought laurels to the college during the academic year are honoured and rewarded. The students who won various competitions have been invited. The invitees are the winners of Sports and Game events, Inter-collegiate Paper presentations, Symposium, Conference publication winners, Blood donors from Youth Red Cross, Members of Tamil Mandram, Members of our College Student Orchestra team and Inter-collegiate Cultural Competition winners etc. The students belonging to various categories mentioned above were honoured by distributing gifts and certificates and delectable dinner on this special occasion. Identified final year student personalities with all round achievements both in academic and co curricular activities are rewarded with shield of '*Best Out going Student award*' of the respective department.

Evidence of Success:

Since last five years that we had implemented these student support activities, the outcomes of these measures are significant in terms of good number pass percentage, 75% of Placement records, overall H-index of 29 and student Innovative projects awards and success in technical competitions etc. The evidence of success also could be measured through the publication of scientific research papers, which helped them to get R&D jobs, MS and PhD admission with scholarship in prestigious universities. A Booklet titled “*Symphony of Excellence*” is uploaded on our college website that has information about Student achievements and Innovations.

Problems encountered and Resources Required:

Even though, we have highly celebrated practices across in our campus, still it encounters some inherent bottle necks which are well optimised and managed with our expertise.

- The constant urge of the student community towards co-curricular training and competitive performances leads to marginal focus destruction from curricular study and reflected in their internal assessment scores. Hence for the students, who availed 'On duty' permissions, are provided opportunity to write re-exams, so as to improve their internal marks in theory and practical courses.
- To make the skill based training system more effective; training needs to be imparted to faculty members on both design processing and technical skills. Necessary steps are being taken to address this issue

“Outstanding” is what the students rate our efforts of nurturing versatile in all round development. In St. Joseph’s, the management and the faculty members strive to go beyond teaching in an effort to redefine co-scholastic excellence.

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

7.3 Institutional Distinctiveness**7.3.1 Describe/Explain the performance of the institution in one area distinctive to its vision, priority and thrust****Response:****Accomplishment of Academic Excellence and Overall Personality Development**

The primary objective of St. Joseph’s College of Engineering is the pursuit of Academic Excellence with high professional standards. It also strives to create meritorious professionals to serve the humanity by setting a commendable tradition of initiatives. This institution stands alone from all other colleges by

focusing greater emphasis on imparting engineering education with a sense of self-discipline and accountability and overall personality development among budding professionals with respect to democratic, ethical, and moral values.

Since its inception, St. Joseph's is ranked within the 'Top 10 Engineering colleges' consistently in Tamil Nadu with total of 1216 University ranks including 53 Gold and 45 Silver medals. These academic achievements are through our unique professional approaches.

A '*Semester orientation program*' to explain the relevance of the subjects and various activities scheduled in respective semester, which helps the students for better semester planning. The faculty adopting *NPTEL e-resource* packs for better course content delivery as well as quick access to the learning material by the students from the dedicated '*Student portal*' in our college website, yields fruitful result oriented teaching and learning process. .

A diverse array of opportunities is provided to the students to enhance their knowledge beyond academics. Organizing various National and International level Conferences, Guest lecturers of eminent personalities, Hands on training and workshops, Technical summits by which the students are exposed to the recent developments. To unleash the concealed talents, students are allowed to organize National level students' *symposia* and *Cultural extravaganza*. These events push the students to excel in Co-Scholastic areas as well. Improvements are visible in terms of student participation in inter-collegiate competitions that include paper and poster presentations, best project competitions etc.

Any institution makes a mark in the global scenario through their research activities. In this view of establishing a research ambience, students are encouraged to innovate and develop projects that are funded by the management and also by the State and Central Government to explore their creative ideas. Yearly achievements of '*INAE innovative project awards*' and winning prizes in *Hackathon*, a digital product development National level competition are the best outcomes of student's efforts.

The '*Placement and Training cell*' is an integral part of our institution that ensures the students are well trained and prepared to face their campus interviews effectively. A clear ladder of '*Placement Oriented Programme*' is scheduled right from their first semester with a focus on Communication and Aptitude skills, Soft skills and Technical skills enhancement. These meticulous efforts of trainings guided our institution to achieve 1108 offers through 197 reputed companies in the current academic year. Astounding placement records and positive feedbacks from the recruiters, stands as a testimony for our placement training practices.

Advisory Bureau for Higher Studies (ABHS) is a separate wing of our college which functions with the prime notion to serve the student community for getting higher studies admission in India and abroad. It offers the *Business English Certificate* (BEC), which is a skill based qualification of English from Cambridge University. By maintaining an updated Alumni data back, the bureau offers guidance for the students to excel themselves in eligibility tests and complete support for higher studies admission. In addition, our college has launched '*Training academy*' for Defense and Civil service aspirants too.

Student's Membership in '*Professional Societies*' is necessary as we strive to stay informed of current developments in our fields of expertise and establish contacts with those who share similar interests and goals. St. Joseph's harbours 12 Professional societies and 15 Societies under IEEE student chapter. These student chapters are involved in updating the technical knowledge of the students by organizing Seminars, Special lecturers by eminent personalities from industries, group discussion and workshops regularly.

St. Joseph's provides the best possible infrastructure facilities for intellectual development of the student community. A few of remarkable amenities such as

- Central Library with 25,000 sq.ft of fully air Conditioned building with architectural elevation comprising 46,073 volumes of books, 148 volumes of Encyclopedia and 152 National Journals and IEEE and Science direct online journals.
- Book Bank, with 2,24,265 number of Books in 13,223 titles of textbooks, a unique practice where apart from central library books students can get a maximum of 7 books which they can retain for the whole semester.

Sports are given equal weightage as academics. A sports village with an area of 30 acres makes the students strong physically and mentally which indirectly helps to improve their learning skills. The victorious college teams have won all the Major Sporting events in Tamil Nadu including Anna University Inter Zonal Sports Championship and Tamil Nadu Inter Engineering Sports (TIES), among 575 Engineering Colleges. Our college has successfully retained *Anna University Sports meet Trophy* for the 13th consecutive year.

St. Joseph's strives to invoke the service mind of our students by encouraging visits to orphanages and old age homes. The students enthusiastically participate and mingle with inmates and offer special lunch, sponsored by our management. These NGO visit activities passionately groom our students to gain an exposure towards downtrodden lifestyle so as to make them responsible citizens.

The radiant ambiance of the college is highly conducive for the academic excellence and overall personality development of the students, which are envisaged through

- Improvement of University Results
- Bagging more than 100 University ranks per year
- More number of Curricular and Extracurricular achievements
- National level awards for Projects and Technical competitions
- Remarkable increase in Placements records upto 75%
- More than 829 students perusing Higher studies in International and National Universities
- Special training for Civil service and Defense service Aspirants
- Overall Championship, at National and International Sports competitions

St. Joseph's constantly emit its vibrancy by up keeping these performance measures in active logarithmic growth phase, so as to mould student's career completely in all dimensions.

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

5. CONCLUSION

Additional Information :

Our College stands third in harboring maximum students' strength among other affiliated college in Anna University, Chennai.

It is our pride to proclaim that all our academic achievements in terms of percentage are with reference to huge number of students input.

The primary objective of this educational institution is to create temples of knowledge so as to impart value based education to the present and future generations of our country.

All our academic practices have compassion on Student centric programs comprising, traditional, contemporary as well as global practices in academic, co-curricular, extra-curricular and sports activities for holistic development.

The Quality Improvement Cell successfully conducts online workshop for students with from e- IIT certification.

Our college is a Zonal Leader in the initiative on "Artificial Intelligence and deep learning Skilling and Research", in collaboration with University College London, Brunel University London, and Bennett University, India.

Our college maintains green campus, free from vehicular pollution inside the campus. College owns mass transport system, all our staff and students are allowed to travel only by our college buses.

Our students have represented in International level sports events such as Asian Games, Common Wealth and won medals in athletics, Table tennis, Swimming, Fencing etc.

Our campus always strives to remain at the forefront of cutting edge technology and scientific research, applicable for betterment of Society. It has a strong infrastructure and labs with state of the art equipment. The campus provides leverage ICT to its fullest for continual improvement of quality and relevance of teaching, research, and academic administration.

With dedicated efforts of the management, faculty, staff and students spanning over twenty five years, the Institution has made an remarkable progress and has emerged as one of the top ranking institutions in the state of Tamil Nadu and one of the promising institutions in India.

Concluding Remarks :

The dynamic history of St. Joseph's College of Engineering reveals the fact of transformation from 160 student with 3 UG programs into 1662 students with 21 programs. This giant leap of 10 folds is because of our dedicative efforts to achieve academic excellence in terms of Results, University Ranks, Placements, Higher studies, Research, co-curricular and extracurricular activities and up-keeping efforts of local community etc.

These accomplishments elevate our Institutional standards at par with National level of renowned Institutions, which is evident through our 100 - 150 position at NIRF ranking. The virtue of triumph gives us an opportunity to redefine our mission in pursuit of shift from "Affiliation to Autonomous".

NAAC Accreditation helps the institution to benchmark the quality parameters criteria and work on to achieve excellence in terms of quality with continuous improvement. This accreditation would give us enhanced prospects of realizing our goal to achieve autonomous status so as to serve better to the student community. Moreover it also empowers the flexibility of adopting industrial needs and demands into our curriculum to cope with the changes in socio-economic sinerio and modren trends in the filed of education which gives an edge to our students to compete at global level. In addition NAAC recognition will give better scope in the career search of the students at all levels.

Hence St. Joseph's College of Engineering, in its objective of becoming a University, initiated the activities to accomplish milestones in the process of accreditation. Having rich academic experience and knowledge percolated over of 25 years, our Institution justifies its deservedness to get NAAC Accreditation with high score and look forward to further process.

We at St. Joseph's certainly believe that the noteworthy growth shown in two and half decades towards infrastructure, academics, resaerch, co-scholastic activities, method of adepting to the challenges of technology and contributions to the local community, would fulfill the expectations of NAAC.

The presitageous NAAC accreditation will be a milestone in our history of progress as well as amoral booster in accelearting our growth towards achieving engineering excellence.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																				
1.1.2	<p>Number of certificate/diploma program introduced during the last five years</p> <p>1.1.2.1. Number of certificate/diploma programs introduced year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>38</td> <td>45</td> <td>27</td> <td>19</td> <td>11</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>30</td> <td>46</td> <td>27</td> <td>19</td> <td>15</td> </tr> </tbody> </table>	2017-18	2016-17	2015-16	2014-15	2013-14	38	45	27	19	11	2017-18	2016-17	2015-16	2014-15	2013-14	30	46	27	19	15
2017-18	2016-17	2015-16	2014-15	2013-14																	
38	45	27	19	11																	
2017-18	2016-17	2015-16	2014-15	2013-14																	
30	46	27	19	15																	
1.1.3	<p>Percentage of participation of full time teachers in various bodies of the Universities/ Autonomous Colleges/ Other Colleges, such as BoS and Academic Council during the last five years</p> <p>1.1.3.1. Number of teachers participating in various bodies of the Institution, such as BoS and Academic Council year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>38</td> <td>37</td> <td>40</td> <td>31</td> <td>39</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5</td> <td>1</td> <td>1</td> <td>1</td> </tr> </tbody> </table> <p>Remark : Revised as per list and supporting documents</p>	2017-18	2016-17	2015-16	2014-15	2013-14	38	37	40	31	39	2017-18	2016-17	2015-16	2014-15	2013-14	1	5	1	1	1
2017-18	2016-17	2015-16	2014-15	2013-14																	
38	37	40	31	39																	
2017-18	2016-17	2015-16	2014-15	2013-14																	
1	5	1	1	1																	
2.1.3	<p>Average percentage of seats filled against seats reserved for various categories as per applicable reservation policy during the last five years</p> <p>2.1.3.1. Number of actual students admitted from the reserved categories year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>575</td> <td>638</td> <td>658</td> <td>645</td> <td>499</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p>	2017-18	2016-17	2015-16	2014-15	2013-14	575	638	658	645	499										
2017-18	2016-17	2015-16	2014-15	2013-14																	
575	638	658	645	499																	

2017-18	2016-17	2015-16	2014-15	2013-14
528	582	562	542	447

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

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

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
70	46	29	22	6

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
18	7	3	4	3

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

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

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
4.06	11.27	52.11	0	5.5

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
9.67	5.60	52.11	0	5.5

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

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

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
8	9	10	11	2

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
9	8	3	1	6

Remark : Revised on the bases of revised supporting document

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

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

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
257	234	106	75	63

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
76	64	47	62	48

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

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

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
37	25	16	18	17

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
25	9	5	9	10

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

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

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14

111	146	111	208	244
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Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
111.16	146.46	111.07	207.89	244.32

Remark : Converted to lakh aww per supporting abstract duly certified by CA

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

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

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
40.5	73.4	62.0	54.4	43.2

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
41.62	75.31	63.85	57.21	45.59

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

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

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
476.64	384.98	369.50	357.87	428.69

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
456.32	349.19	334.21	295.80	330.29

Remark : Revised as per supporting abstract duly certified by CA

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

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

Answer before DVV Verification:

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2017-18	2016-17	2015-16	2014-15	2013-14
823	898	888	828	697

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
823	898	888	828	697

5.3.1	<p>Number of awards/medals for outstanding performance in sports/cultural activities at national / international level (award for a team event should be counted as one) during the last five years.</p> <p>5.3.1.1. Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one) year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>331</td> <td>286</td> <td>323</td> <td>310</td> <td>301</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>11</td> <td>7</td> <td>4</td> <td>5</td> <td>10</td> </tr> </tbody> </table> <p>Remark : Revised as per certificates produced and on basis of awards only</p>	2017-18	2016-17	2015-16	2014-15	2013-14	331	286	323	310	301	2017-18	2016-17	2015-16	2014-15	2013-14	11	7	4	5	10
2017-18	2016-17	2015-16	2014-15	2013-14																	
331	286	323	310	301																	
2017-18	2016-17	2015-16	2014-15	2013-14																	
11	7	4	5	10																	

5.3.3	<p>Average number of sports and cultural activities/ competitions organised at the institution level per year</p> <p>5.3.3.1. Number of sports and cultural activities / competitions organised at the institution level year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>47</td> <td>40</td> <td>49</td> <td>49</td> <td>39</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>22</td> <td>15</td> <td>26</td> <td>26</td> <td>18</td> </tr> </tbody> </table>	2017-18	2016-17	2015-16	2014-15	2013-14	47	40	49	49	39	2017-18	2016-17	2015-16	2014-15	2013-14	22	15	26	26	18
2017-18	2016-17	2015-16	2014-15	2013-14																	
47	40	49	49	39																	
2017-18	2016-17	2015-16	2014-15	2013-14																	
22	15	26	26	18																	

6.3.3	<p>Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years</p> <p>6.3.3.1. Total number of professional development / administrative training programs organized</p>
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by the Institution for teaching and non teaching staff year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
29	24	13	18	10

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
32	24	13	18	10

- 6.5.4 Quality assurance initiatives of the institution include:
1. Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback collected, analysed and used for improvements
 2. Academic Administrative Audit (AAA) and initiation of follow up action
 3. Participation in NIRF
 4. ISO Certification
 5. NBA or any other quality audit
- Answer before DVV Verification : A. Any 4 of the above
Answer After DVV Verification: B. Any 3 of the above

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

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

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
8	8	8	5	3

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
5	4	4	1	0

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

1. Physical facilities
2. Provision for lift

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

Answer before DVV Verification : A. 7 and more of the above

Answer After DVV Verification: B. At least 6 of the above

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

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
4	4	4	5	5

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
4	4	4	4	4

Remark : Revised as per clarification and supporting documents by HEI

2.Extended Profile Deviations

ID	Extended Questions																				
1.2	<p>Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>745</td> <td>745</td> <td>745</td> <td>710</td> <td>650</td> </tr> </tbody> </table> <p>Answer After DVV Verification:</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>668</td> <td>666</td> <td>644</td> <td>585</td> <td>473</td> </tr> </tbody> </table>	2017-18	2016-17	2015-16	2014-15	2013-14	745	745	745	710	650	2017-18	2016-17	2015-16	2014-15	2013-14	668	666	644	585	473
2017-18	2016-17	2015-16	2014-15	2013-14																	
745	745	745	710	650																	
2017-18	2016-17	2015-16	2014-15	2013-14																	
668	666	644	585	473																	
2.2	<p>Total Expenditure excluding salary year-wise during the last five years (INR in Lakhs)</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>648</td> <td>600</td> <td>534</td> <td>613</td> <td>632</td> </tr> </tbody> </table> <p>Answer After DVV Verification:</p>	2017-18	2016-17	2015-16	2014-15	2013-14	648	600	534	613	632										
2017-18	2016-17	2015-16	2014-15	2013-14																	
648	600	534	613	632																	

2017-18	2016-17	2015-16	2014-15	2013-14
645.56	597.76	533.91	613.01	632.32

NAAC