



## Yearly Status Report - 2019-2020

Part A	
<b>Data of the Institution</b>	
1. Name of the Institution	T. J. S. ENGINEERING COLLEGE
Name of the head of the Institution	Dr. J. PRAKASH M.E., PhD
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	04427967602
Mobile no.	7373730006
Registered Email	principal@tjsec.in
Alternate Email	tjsivanandam@gmail.com
Address	T. J. S ENGINEERING COLLEGE, TJS NAGAR, PERUVOYAL, NEAR KAVARAIPETTAI, THIRUVALLUR DISTRICT.
City/Town	Gummidipoondi
State/UT	Tamil Nadu
Pincode	601206
<b>2. Institutional Status</b>	
Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Rural
Financial Status	private
Name of the IQAC co-ordinator/Director	Dr. K. KAMAL BABU M.E., PhD
Phone no/Alternate Phone no.	04427967600
Mobile no.	7373720182
Registered Email	iqac@tjsec.in
Alternate Email	tjsivanandam@gmail.com

**3. Website Address**

Web-link of the AQAR: (Previous Academic Year)	<a href="http://tjsec.in/">http://tjsec.in/</a>
<b>4. Whether Academic Calendar prepared during the year</b>	Yes
if yes, whether it is uploaded in the institutional website: Weblink :	<a href="http://tjsec.in/academic-schedule/">http://tjsec.in/academic-schedule/</a>

**5. Accrediation Details**

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	B	2.42	2019	14-Jun-2019	13-Jun-2024

<b>6. Date of Establishment of IQAC</b>	05-Jul-2019
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**7. Internal Quality Assurance System**

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
IQAC Formation	05-Jul-2019 1	20
IQAC MEETING - I	09-Jul-2019 1	20
IQAC MEETING - II	14-Feb-2020 1	20
IQAC MEETING - III	20-Apr-2020 1	20
Academic Audit	03-Feb-2020 1	103
Laboratory Audit	07-Feb-2020 1	103
ISO internal Audit	11-Feb-2020 1	103
One day Workshop on Innovative Pedagogies for Quality Enhancement of Teaching learning process.	05-Mar-2020 1	110

[View File](#)

**8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.**

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
IQAC TJS Engineering College/ EEE/ Mr.T. Kamal KumarFormation	Student Project Scheme	TNSCST	2019 180	7500
TJS Engineering College/ MECH/ Mr.M. Prakash	DST- NIMAT	DST-EDII	2019 9	60000

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<b>9. Whether composition of IQAC as per latest NAAC guidelines:</b>	Yes
Upload latest notification of formation of IQAC	<a href="#">View File</a>
<b>10. Number of IQAC meetings held during the year :</b>	3

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes														
Upload the minutes of meeting and action taken report	<a href="#">View File</a>														
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No														
12. Significant contributions made by IQAC during the current year(maximum five bullets)															
Strengthening the college with International standards. Improving the Placement and Training Cell (PTC) towards greater consolidation. Training Programs for Faculties through Train the Trainers activities. Periodical meetings with various stakeholders to formulate the plan of action for constant quality improvement and sustainability. Academic and Administrative Audit for Quality assurance and standardization.															
<a href="#">View File</a>															
13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year															
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<a href="#">View File</a>															
14. Whether AQAR was placed before statutory body ?	Yes														
<table border="1"> <thead> <tr> <th>Name of Statutory Body</th> <th>Meeting Date</th> </tr> </thead> <tbody> <tr> <td>Governing Council</td> <td>14-Dec-2020</td> </tr> </tbody> </table>		Name of Statutory Body	Meeting Date	Governing Council	14-Dec-2020										
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Governing Council	14-Dec-2020														
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes														
Date of Visit	24-Dec-2019														
16. Whether institutional data submitted to AISHE:	Yes														
Year of Submission	2020														
Date of Submission	31-Jan-2020														
17. Does the Institution have Management Information System ?	Yes														
If yes, give a brief descripton and a list of modules currently operational (maximum 500 words)	The ERP System enables integration which facilitates the entire student life cycle management and increases teacher student collaboration. Smart student is a multi connector ERP System that helps to connect the students, parents, Teachers, and non teaching faculties of the institution within one interactive platform. And it provides complete automated experience with all back end administration and data management activities of the institution. Smart student ERP keeps database of all the students and faculties maintained in the online. The attendance and performance details of all the students in the internal assessments and university examinations are also maintained in the Smart student ERP. Likewise the training placement cell maintains the student details and performance records from SSLs,HSC, Diploma and CGPA etc.														

## Part B

**CRITERION I - CURRICULAR ASPECTS****1.1 - Curriculum Planning and Implementation****1.1.1 - Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words**

The college follows the day order system. The Lesson plan is framed by the faculty before the commencement of the Course concerning the subject assigned. These plans depend upon the syllabus prescribed by the University and the number of periods assigned by it. Students and faculty are made well aware of the Programme Outcome (PO's) and Course Outcome (CO's). The faculty members schedule their activities and lecture plan well in advance based on the both academic calendar framed by the institution as well as the academic schedule framed by Anna University respectively. The allocation of Tutorial Classes for every subject strictly adheres. The teaching and practical plans are approved by the Head of Department (HOD) before the commencement of the semester and communicated to students by the respective course teacher. ICT mode of teaching is followed to deliver the subject matter with great attention. Students are advised to follow the reference books prescribed in the syllabus. Note of materials for Theory Subjects: Notes of the lesson, a Question bank, MCQ, Video lectures, PPT's, and Applications of Concept are well structured. Practical sessions are thoughtfully conducted in batches wise. A class committee is formed at the beginning of the year and it meets at least two a semester. Students' participation in course work is ensured by the mandatory minimum attendance in the class, the norms for which are set by the University. Assignments are regularly given to exercise the learning process for students to have a better understanding of the subject. The Faculty members follow Bloom's Taxonomy system to frame Question Papers to promote higher forms of thinking in Education. The test is conducted Unit wise and the students who fail to score more than 70% need to appear for the retest. HoDs analyze the test reports and remedial measures are discussed. Model Exams and practicals are habitually conducted before the university Examination. Record of attendance and assessment which contains details on the overall performance of every student is maintained by the faculty in both Theory and Practical sessions. The college engages all the students on learner-centric techniques such as peer learning, group discussion, brainstorming, use of NPTEL video lectures for case studies, etc., in the delivery of the academic courses. The college provides assistance in all forms to accomplish Mini Projects and Students are directed to Industry for the successful completion of final year projects. The students are encouraged by arranging Industrial Visit at least twice a semester as per the norms of Anna University. Students undergo Internship training for a month as Employers value internship experience. Views of experts from industry, academia, and alumni on curriculum are taken regularly. Expert resource persons from various fields are invited to impart knowledgeable ideas. Feedback from industry experts and alumni is given due importance in defining graduate attributes and design of course Outcomes. The college aims to encourage innovative ideas and entrepreneurship activities to all the students and enable them to develop their personality growth by curriculum outcome effectively.

**1.1.2 - Certificate/ Diploma Courses introduced during the academic year**

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employability/entrepreneurship	Skill Development
Embedded System	Nil	27/12/2019	5	Employability and Entrepreneurship	Introduction Working with GPIO Modules
Digital Image Processing	Nil	10/12/2019	5	Employability and Entrepreneurship	Training in digital image processing
3D Printing	Nil	18/12/2019	10	Employability and Entrepreneurship	Training in 3D printing concepts
Geo Information System IoT	Nil	20/08/2019	1	Employability and Entrepreneurship	Introduction about internet of things and geo information
Citrix	Nil	04/12/2019	1	Employability and Entrepreneurship	Training on how to work on citrix
Machine Learning	Nil	19/12/2019	1	Employability and Entrepreneurship	Introduction about machine Learning
Project Scheduling with Primavera P6 P6	Nil	04/12/2019	4	Employability and Entrepreneurship	Understand basic concepts of construction scheduling using primavera p6
Programming in JAVA	Nil	07/10/2019	84	Employability and Entrepreneurship	Understand the concepts of programming in Java

**1.2 - Academic Flexibility****1.2.1 - New programmes/courses introduced during the academic year**

Programme/Course	Programme Specialization	Dates of Introduction
BE	OMD551-Basics of Biomedical Instrumentation	01/07/2019

[View File](#)

**1.2.2 - Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.**

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System

BE	Civil Engineering	01/07/2019
BE	Computer Science and Engineering	01/07/2019
BE	Electrical and Electronics Engineering	01/07/2019
BE	Electronics and Communication Engineering	01/07/2019
BE	Mechanical Engineering	01/07/2019
ME	Computer Science and Engineering	01/07/2019
ME	VLSI	01/07/2019

## 1.2.3 - Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	80	Nil

## 1.3 - Curriculum Enrichment

## 1.3.1 - Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Swayam NPTEL	07/10/2019	20
Python Programming	20/07/2019	50
AUTOCAD	25/09/2019	74

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## 1.3.2 - Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Computer Science and Engineering	5
BE	Electronics and Communication Engineering	8
BE	Mechanical Engineering	10
BE	Electrical and Electronics Engineering	10
BE	Civil Engineering	10

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## 1.4 - Feedback System

## 1.4.1 - Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

## 1.4.2 - How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained
Feedback is received from students, teachers, employers, alumni, and parents at the concerned department and institutional level in which views on the curriculum, lesson plans, teaching tools, and student assessment outcomes are discussed for taking learning measures. The teaching process is reviewed by the Principal and HoD. The concerned faculty is counseled by the HoD to improve their performance. Two class committee meetings per semester were conducted to ensure the completion of the syllabus and other activities. Corrective measures are taken to rectify any issues proposed in the meeting, Principal and HoD's frequently conduct faculty meetings, where the ways and mean enhancing the curriculum, academic discipline, Teaching-Learning process, and Research and Extension activities are examined and discussed. The approval suggestions are informed to the respective departments for further implementation. Feedback from employers is received through placement drive, the center of excellence advisory committee meeting, department-level advisory committee meeting, and during guest lecturers which helps the institution to enhance students' knowledge and skill set for the current scenario. Hands-on Training and Value-added courses are designed based on recent features. As the alumni are found to be the brand ambassador(s) of our institution feedback from alumni is taken with due considerations on the following events as Alumni get-to-gather, Department wise student's association meetings, Mock Interviews, and Alumni Guest Lecture. Alumni contribute their knowledge and extend to support placement assistance. To consolidated feedback report is forwarded to the Principal for taking the positive performances and scope for improvement. Meeting with parents is conducted every semester to identify the

difficulties faced by their wards and to motivate them to improve in the upcoming exams. The HOD, Year Coordinators, Mentor, Class advisors, and Subject handling staff supports every student, and communication is maintained with the student and parents/guardians regarding the performance of the student. Parameters listed in the parents feedback, include quality of teaching, sports facilities, lab facilities, Mess facility, students other activities such as transport, library, internet facilities, Wi-Fi, etc. The parents of the students whose performance in the continuous assessment test is poor a counseled individually and their feedback is also given after due consideration.

## CRITERION II - TEACHING- LEARNING AND EVALUATION

### 2.1 - Student Enrolment and Profile

#### 2.1.1 - Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BE	CSE	120	89	63

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### 2.2 - Catering to Student Diversity

#### 2.2.1 - Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	743	11	97	6	103

### 2.3 - Teaching - Learning Process

#### 2.3.1 - Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
103	103	28	23	2	7

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

#### 2.3.2 - Students mentoring system available in the institution? Give details. (maximum 500 words)

The college drives to enhance the culture to serve better the needs of an exchanging and dynamic learning community. Active mentoring begins with the faculty. To attain academic success and persistence, a healthy relationship between faculty and students is practiced. • Type of Mentoring : All-round development (Personal, Academic, and Career). • No. of Faculty Mentors : All teaching faculties • No. of Students per Mentor : 10 - 15 approximately (1:7 as per ratio) • Frequency of Meeting : 2 times in a semester Teaching faculty members in the department will act as a mentor for a group of students assigned to them. Mentors will monitor their attitudes, progress, and report to the Academic Council. Also, we concentrate on extra-curricular activities in which the mentor identifies individual talents in their interests. A counseling file is maintained by the mentor where all the details of their students are recorded and continued until the student completes his/her graduation. The counseling file supported by each mentor has features like Personal information, Academic performance, Attendance record, Internship, and Industrial training, Co-curricular and Extracurricular Activities, Awards and prizes, and Counseling remarks. During the counseling session, students will represent the personal, academic difficulties that they are facing from time to time and the mentor will help the students to overcome their challenges by suggesting suitable remedies. If the problem seems to be tough, then the students will be addressed by the Academic council along with their mentor. Information about the progress and challenges of their students will be intimated to the respective parents periodically through phone calls/SMS/Whatsapp/post.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
754	103	1:7

### 2.4 - Teacher Profile and Quality

#### 2.4.1 - Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
102	103	Nil	29	13

#### 2.4.2 - Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year )

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr. S. Velmurugan	Professor	Patent Publication
2020	Dr. M. Sathiya Priya	Professor	Patent Publication
2020	Mrs. D. Mythily	Associate Professor	Patent Publication

[View File](#)

**2.5 - Evaluation Process and Reforms**

2.5.1 - Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	CIVIL-103	8/IV	29/09/2020	17/10/2020

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2.5.2 - Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

The Continuous Internal Assessment system at the institution level is carried out by Exam Cell. The following procedures are involved in the Assessment system for evaluation as Question Paper Setting: The exam cell prepares the exam schedule as per the academic calendar. It is approved by the Principal HoD and is circulated to the department. The subject coordinator who is one of the subject experts set the question paper as per the regulation of university patterns. The question paper is prepared to compose questions on different levels of thinking ranging from lower to higher levels of cognitive thinking as per Bloom's Taxonomy system. Due weightage is given for standard and average questions while setting the question paper. The questions are selected to assess the understanding level of the students as per the Bloom's Taxonomy system given below: • Level 1: Remember and Recall Information • Level 2: Understanding and interpreting concepts and ideas • Level 3: Apply • Level 4: Analyze • Level 5: Evaluate • Level 6: Create Evaluation of answer scripts: The answer key prepared by the concerned faculty is submitted to the exam cell. The answer scripts are evaluated by the subject handling faculty themselves. Central evaluation is adopted for the correction of the Model exam answer sheets. Blind evaluation is done by shuffling and distributing the answer sheets to the faculty members, similar to the Anna University central evaluation process. The evaluated answer scripts are handed over to the students within two days of conducting the assessment test and the answer keys are discussed with the students. Assignments (I II), Mid-Term Tests (I II), Internal Assessments (I II), Revision Tests, and Model exams are conducted every semester, for the continuous assessment, in the learning process of students. All the above-mentioned evaluation processes contribute to 20 Marks of total (Internal Marks) allotted to the particular course. The end Semester exam contributes to the remaining 80 marks through external examination.

2.5.3 - Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

Academic year schedule as prescribed by Anna University. The University publishes in advance, the academic calendar containing plans for both curricular and co-curricular activities based on the available working days as per regulations. Affiliated Institution prepares the College academic calendar in concurrence with the University calendar. The academic calendar is prepared by following the university schedule both odd/even semesters and distributed to the Faculty and the students. The academic calendar provides the date of commencement of the academic session, duration of the semester, period of internal assessment tests, events planned like the workshop, guest lecture value-added courses, placement training, industrial visit, internship, in-plant training, symposium, and conference for the semester and Government holidays. Students are well informed about the timetable for the internal assessment examination and the schedule for portal entry. The whole syllabus is divided into several subtopics, and the mode of teaching will be determined by the concerned Faculty to prepare Lesson Plan. The lesson plan based on Blooms Taxonomy System and course objectives must be prepared in alignment with an academic calendar which is duly approved by the Head of Department and Principal after careful examination. Question banks are prepared for each topic in the course based on Blooms Taxonomy System and course objectives and considering the university question papers before the start of the semester. The co-curricular activities such as industrial visits, guest lectures, value-added courses, placement training, workshops, cultural activities, symposium, and conferences are planned by the Department based on the academic calendar and the schedules are used to be displayed on the notice board periodically.

**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 in website of the institution (to provide the weblink)

<http://tjsec.in/aqar-2019-2020/>

2.6.2 - Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
103	BE	CIVIL	14	14	100

[View File](#)**2.7 - Student Satisfaction Survey**

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<http://tjsec.in/aqar-2019-2020/>**CRITERION III - RESEARCH, INNOVATIONS AND EXTENSION****3.1 - Resource Mobilization for Research**

3.1.1 - Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Students Research Projects (Other than compulsory by the University)	180	Tamilnadu state council for science and technology	7500	7500
Any Other (Specify)	9	DST-EDII	60000	60000

[View File](#)**3.2 - Innovation Ecosystem****3.2.1 - Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year**

Title of workshop/seminar	Name of the Dept.	Date
Surface Mounting Technology	EEE	20/07/2019
Electrical cad	EEE	08/08/2019
Industrial automation using PLC,SCADA ,HMI VFD	EEE	13/08/2019
Testing and Commissioning of Substations	EEE	13/09/2019
Seminar on Networking	ECE	02/07/2019
Workshop on Microwave application	ECE	10/02/2020
Workshop on Wireless Robotics	ECE	23/01/2020
Workshop on Non Destructive Testing	MECH	12/08/2019
Value added course on 3D Printing Technology	MECH	10/03/2020

**3.2.2 - Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year**

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
E-Bike	Dinesh chowdry	Asian E-Bike	01/08/2019	Student

[View File](#)**3.2.3 - No. of Incubation centre created, start-ups incubated on campus during the year**

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
TJSEC - MSME Business Incubation	Mr. V. Lokesh Waran	TJS Trust	AG Moto 48	Innovative ( E-Bike)	10/08/2019

[View File](#)**3.3 - Research Publications and Awards****3.3.1 - Incentive to the teachers who receive recognition/awards**

State	National	International
0	2	0

**3.3.2 - Ph. Ds awarded during the year (applicable for PG College, Research Center)**

Name of the Department	Number of PhD's Awarded
0	Nil

**3.3.3 - Research Publications in the Journals notified on UGC website during the year**

Type	Department	Number of Publication	Average Impact Factor (if any)
International	ECE	1	1.31

[View File](#)**3.3.4 - Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year**

Department	Number of Publication
CSE	2
EEE	2
MECH	2
ECE	14

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## 3.3.5 - Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Improving The Performance of Boiler By Reducing HeatLoss Using Soot Blower	Mr. Velukumar V Mr.SathishKumar R	Eleyon Engineering reports	2019	0	TJS Engineering College	Nil
Implementation of Cloud Security by Identity Based Encryption	Dr. S.Velmurugan	IJRTE	2019	1	TJS Engineering College	1

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## 3.3.6 - h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Application of Information Science and Technologies in Academic libraris an overview	Dr. S.Velmurugan	Springer	2019	4	1	TJS Engineering College

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## 3.3.7 - Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	Nil	56	Nil	50
Presented papers	Nil	20	Nil	Nil
Resource persons	1	1	2	Nil

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## 3.4 - Extension Activities

## 3.4.1 - Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Amazon Web Services	Netwrap Software Solution	2	60
Blood donation camp	NSS	1	120

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## 3.4.2 - Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
MSME Business incubator	Recognition by MSME	MSME	300

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## 3.4.3 - Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Club	Netwrap Software Solution	Amazon Web Services	2	60
NSS	NSS	Blood donation camp	1	120

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## 3.5 - Collaborations

## 3.5.1 - Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Field trip	40	TJS Engineering College	1
Field trip	120	TJS Engineering College	1

Field trip	54	TJS Engineering College	1
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3.5.2 - Linkages with institutions/industries for internship, on-the-job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Industrial Visit	Industrial Visit	Alamathi Substation	06/06/2019	06/06/2019	54

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3.5.3 - MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Thick Technologies	25/10/2019	Training, Consulting	16

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#### CRITERION IV - INFRASTRUCTURE AND LEARNING RESOURCES

##### 4.1 - Physical Facilities

4.1.1 - Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
8000000	7802581

4.1.2 - Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Classrooms with Wi-Fi OR LAN	Existing
Seminar halls with ICT facilities	Existing

[View File](#)

##### 4.2 - Library as a Learning Resource

4.2.1 - Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
EFY Library Management System(using VB.net and SQL)	Fully	1.0	2012

4.2.2 - Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	16643	6657200	165	80890	16808	6738090
Reference Books	205	198254	26	24700	231	222954
e-Books	453	212368	52	26201	505	238569

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4.2.3 - E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Mr. M. Sivachandran	Field Solving Problems in Municipal Solid Waste Management	<a href="https://www.youtube.com/watch?v9aK7mL5AOg">https://www.youtube.com/watch?v9aK7mL5AOg</a>	26/11/2019

[View File](#)**4.3 - IT Infrastructure****4.3.1 - Technology Upgradation (overall)**

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	450	268	450	10	125	8	35	50	4
Added	0	0	0	0	0	0	0	0	0
Total	450	268	450	10	125	8	35	50	4

**4.3.2 - Bandwidth available of internet connection in the Institution (Leased line)**

50 MBPS/ GBPS

**4.3.3 - Facility for e-content**

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
TJSEC Media Center	<a href="http://tjsec.in/aqar-2019-2020/">http://tjsec.in/aqar-2019-2020/</a>

**4.4 - Maintenance of Campus Infrastructure****4.4.1 - Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year**

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
1800000	1711292	24000000	23696831

**4.4.2 - Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)**

• The college has appointed maintenance support staff and sub-staff to look after the buildings, types of equipment, and all other infrastructural facilities to maintain them in condition. • Infrastructure-related problems are attended to by the maintenance staff under the supervision of the supervisor and the administrative officer. • For Maintenance, cleaning, housekeeping sanitary maintenance, and cleaning of the classrooms, library, hostel buildings, mess, and college canteen. Sub-staff has been appointed to supervise them. • Centralized R.O plant for constant water supply and power supply is maintained by technicians. • The laboratories are maintained by the lab instructor. The faculty members are responsible to maintain the computers and register the complaints. Installation is done in the lab area in the presence of the concerned lab in charge. • Preferred location is identified for installation and computer specifications are identified for making the required software compatible. • Lab-in-charges record the details of consumable and non-consumable equipment in respective registers. • Fire safety equipment is maintained in labs as a precautionary measure. • A separate complaint register is maintained for various services like housekeeping, electrical, etc. • The stock in the lab is verified for the available equipment and discarded types of equipment, by a meticulous stock verification process. • The purchase of new computers, printers, refilling, etc. is supervised by the department. • Fire and safety equipment is maintained in labs for precautionary measures and maintenance • Before the commencement of every academic year, a lab audit is conducted and a report on the requirement of new equipment, replacement of the old equipment, and modernization of machines/software is prepared and it is submitted to the Head of the Department for Approval. • LCD projectors, air conditioners, and water coolers are maintained with the help of internal resources /external resources. • Computer labs and many of the major equipment like UPS, Servers are well ventilated. • The classrooms are daily cleaned by the sweepers to maintain cleanliness and a neat ambiance. • The classrooms are well ventilated which ensures a pleasant learning environment. • The campus has a library that has a good collection of printed journals, e-journals, volumes of books that supports students and faculty • The library maintenance is updated with a constant check. • Regular cleaning of racks, floors, keeping the quality of books and the annual purchase of books and journals are done. • The inventory of stock or stock verification is done at regular intervals. • The sports equipment is annually purchased and maintained by the physical education department. • The cleanliness of the playgrounds and play areas is maintained by the gardener and the staff. • Regular maintenance of garden, landscapes maintenance is ensured regularly. • The college has exclusive maintenance for pest control, garden maintenance, housekeeping, etc. • The college has well-maintained lawns to improve the ambiance on the campus. • The college has efficient management to dispose of the food waste so that it could be used as feed for animals.

<http://tjsec.in/aqar-2019-2020/>**CRITERION V - STUDENT SUPPORT AND PROGRESSION****5.1 - Student Support****5.1.1 - Scholarships and Financial Support**

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Fees concession for poor students and academic merit scholarship by T.J.S. Trust	174	2808500
Financial Support from Other Sources			
a) National	BC/MBC/SC/ST /FIRST GRADUATE/AGARAM/MATRAM /ANANDHAM/RAJASTHANI ASSOCIATION/THE AMEERUNNISA BEGAM SAHIBAS ENDOWMENTS/SHREE GAYETHRI TRUST/SHREE GAYETHRI TRUST	338	7403454

b) International	NIL	Nil	0
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5.1.2 - Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Career counseling	21/10/2019	320	Enrich and Excell training centre Silicon software
Soft skill development	07/10/2019	363	Enrich and Excell training centre Silicon software

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5.1.3 - Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	AMCAT	104	104	Nil	51
2019	GATE	334	334	Nil	31

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5.1.4 - Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
1	1	1

## 5.2 - Student Progression

5.2.1 - Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Qspider	150	29	TCS	34	2

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5.2.2 - Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	3	TJS Engineering College	CSE	RMK Engineering college	M.E

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5.2.3 - Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	Nil
CAT	Nil
GRE	Nil

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5.2.4 - Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
KABADDI	ZONE-1	16
FOOD BALL	ZONE-1	16
VOLLEY BALL	ZONE-1	16
CRICKET	ZONE-1	16

[View File](#)**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)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
No Data Entered/Not Applicable !!!						
No file uploaded.						

5.3.2 - Activity of Student Council &amp; representation of students on academic &amp; administrative bodies/committees of the institution (maximum 500 words)

1. Class Representative: In each class through the class committee includes HoD, Class Advisor and Mentor, identifies a male and a female representative based on the academic performance are chosen and regular meetings are conducted during the commencement and at the end of the semester, and also whenever it is required. 2. Committee: The following committees are formed through the class committee includes HoD, Class Advisor, and Mentor, and a coordinator is selected for each committee. A frequent discussion is done to enable the committee to function efficiently and to ensure that the students exhibit their communication skills, technical skills, excellence in sports, cultural activities, teamwork, and time management and also expected to build leadership qualities and confidence. • Co-curricular Activities: To enhance the application of technical knowledge, it is aimed to motivate students to participate in the seminar, symposium, conference, and various competitions at college or inter-college levels. • Sports: Sports talents of the students are exhibited through their involvement in Inter-college competitions. Students are also motivated to participate in various events in inter-college matches university sports meet, etc. and the winners are encouraged. • Cultural Meet: Competitions are conducted in the college to enhance the literary and other skills of the students, and to participate in various events organized by other universities/colleges. • Hostel Committee: Meetings are conducted with hostel students regarding the services and facilities given to them whenever required • Anti-Ragging: A student from each department is selected for Anti-Ragging Committee to address any issues regarding ragging. This committee is also responsible for making the students well-aware of the consequences of involvement in ragging. 3. Academic governance: • Student Committee involves in governing the academics by giving their views informing the academic calendar. • They work with Placement Cell and ensure that the placement information regarding companies, opportunities, skills, placement training is reached to all the students. • With the guidance of faculty advisors, Student Committee organizes workshops and seminars, and symposiums. • They are also a part of the Editorial team in Newsletter and Magazines where they exhibit students' talents in writing poetry, painting, pictures, etc. • They ensure that classroom learning is exhibited practically

**5.4 - Alumni Engagement**

5.4.1 - Whether the institution has registered Alumni Association?

No

5.4.2 - No. of enrolled Alumni:

2502

5.4.3 - Alumni contribution during the year (in Rupees) :

0

5.4.4 - Meetings/activities organized by Alumni Association :

1. Meetings organized by Alumni Association on February month 2. Guest lecturers for students by Alumni

**CRITERION VI - GOVERNANCE, LEADERSHIP AND MANAGEMENT****6.1 - Institutional Vision and Leadership**

6.1.1 - Mention two practices of decentralization and participative management during the last year (maximum 500 words)

As a decentralization measure for academics, Heads of Departments are responsible for the academic and administrative matters of the departments with one or more programmes. Overall quality is managed through ISO system with Internal Quality Assurance Cell. Likewise for general administrative responsibilities, new portfolios are created at different time intervals and coordinators are appointed for the same. To enhance the programme outcomes as specified, Programme Coordinators are identified to support the Head of the Department in executing academic activities effectively. They facilitate various stakeholders to decide the curriculum, plan the meetings, and implement their innovation with a core team of faculty members identified for the programme under the supervision of the Head of the Department. Programme Coordinators are empowered to strengthen each programme of study and support the Head of the Departments in providing outcome-based education

6.1.2 - Does the institution have a Management Information System (MIS)?

Yes

**6.2 - Strategy Development and Deployment**

6.2.1 - Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Curriculum Development	The Institute is affiliated to Anna University, the institution strictly follows curriculum which completely framed by the Anna university. Eminent faculties are members of Board of Studies, Syllabus Revision Committee and Academic Council of Anna University. They take active part in curriculum

	revision, discussions related to the implementation of various other academic activities and examination systems. To reduce the gap in the curriculum and industry point of view, the institute is consistently organizing appropriate Seminars, Industrial Visits, and Value Added Courses to develop and enhance the skill set of industry ready graduates.
Teaching and Learning	The teaching, learning and assessment strategies are structured to achieve learning outcomes. The curriculum of every semester is completed within the stipulated time through planning of the courses of study, timely conduct of continuous evaluations, laboratory examinations, end semester examination, etc. Self learning, ICT based learning, blended learning are given priority. Fully qualified, competent and dedicated faculty members contribute to the all round development of the students. The classrooms are equipped with audiovisual aids to enhance the quality of teaching learning process. Also Faculty development programmes are conducted regularly to enhance the quality of the teachers.
Examination and Evaluation	The College Examination Cell holds the responsibility for all exam related activities and through coordinated efforts of all the stakeholders, the entire evaluation system is smoothly managed by the Exam cell. Internal assessment I covers Unit I and II, Internal assessment II covers Unit III and IV and model examination covers the entire syllabus of a particular course. The question paper patterns for the internal examinations have been standardized by the institution, similar to that of Anna University end semester question paper pattern like, containing Part A, Part B and Part C questions. All the above-mentioned evaluation processes contribute to 20 percent of total (Internal) marks allotted to the course are also accessible through the website of the affiliating university. The end Semester exam contributes to the remaining 80 percent of the marks. For practical's, students are awarded Internal Marks (20) based on their performance in the lab classes and model practical. The end semester exam contributes to the remaining 80 percent of the marks.
Research and Development	To promote research activities in the college, the IQAC committee i) Supports the eligible departments to apply for Research Centre recognition under Anna University, Chennai. ii) Ensures the Ph.D holders to apply for Guide Recognition under Anna University, Chennai. iii) Encouraged to publish research papers in refereed journals with high impact factor. iv) Motivates to submit research proposals for various funding agencies v) Motivate to submit proposals for conducting seminars, Conferences, Workshops. vi) Prompts the faculty to interact with the industry for collaborative research projects. vii) Identifies and encourages various research activities of all the departments viii) To publish a research journal inviting technical papers from the researchers ix) To sponsor participation and presentation in International conference
Library, ICT and Physical Infrastructure / Instrumentation	The institution has an excellent library for the benefit of students, faculty and researchers. The library has a large collection of books around 17000 from various reputed publishers like CRC Press, Springer, John Wiley, McGraw Hill, Elsevier, Oxford, ASM international, and Laxmi etc., It is covering various branches of Engineering and Technology, Science and Humanities and allied fields. It has 120 national and international journals by reputed publishers of India and abroad and also the library contains Digital library with 1452 E-Journals access. The library contains more than 226 Tamil book collections to improve the state language and cultural developments. The library is fully computerized. The Library hour is scheduled as a part of the timetable. Library is kept open on all working days of the week. Digital Library utilization is encouraged for both students and faculty.
Human Resource Management	TJSEC Administration provides transparency in rules of employment, promotion, increments, and retirement through a separate section that takes care of human resources. These rules are in line with the rules of the Anna University Chennai, Tamil Nadu. Also the college management provides promotion, award of increments, and support needed to travel abroad are provided by the college after appropriate interviews, verification of credentials, and merit in a transparent manner. These norms are communicated to all employees through circulars and invitations. Faculty members are permitted for the award of the international fellowships to pursue advanced studies/research.
Industry Interaction / Collaboration	The institution firmly believes in industry interaction and these interactions through MoU's with organizations like Jana Engineering Industries, Thick Technologies, Designing with ME solutions, M.D.Automation and controls, Signals and Solutions, Kamatchi steel Industries, Emerald tyres, T.J. Arumugam co have resulted in internship to the students, immersion programmes for the faculty, problem solving, testing and consultancy assignments for industries.
Admission of Students	Admissions for BE., ME., Programmes are done through Tamil Nadu common single window online counseling in various rounds according to their rank based on the norms specified for admission. At the end of each round of online counseling, the respective colleges can download the list of candidates allotted. The counseling authority also specifies the date before which the candidates have to get admitted to the respective colleges. After verification of all the records, the students are provided with a dummy Roll number and a temporary Identity card, and an admission slip containing the name of the student, branch, roll number and the fee amount to be paid to the college. The Principal gives the final approval for admission and the candidate pays the college fee in the accounts office. For the convenience of the candidates and parents, the hostel admission process is also completed in the college premises which include room allotment and payment of hostel fee.

## 6.2.2 - Implementation of e-governance in areas of operations:

E-governance area	Details
Planning and Development	To review the academic and other related activities of the Institution and to review the students and faculty development programs Planning and Monitoring Board is in place. Soft copy of the Academic calendar, Time table, Internal assessment schedules etc., sent to all the departments through TJSEC web mail. Google spread sheets are used to share the information among the departments related to the students attendance, performance of the students in the examinations etc.,
Administration	The MIS software smart student ERP helps the institution to maintain the student details like their personal, academic, Extra-Curricular, Co-curricular campus activities. Faculty details like their attendance result analysis is also being maintained.
Finance and Accounts	MS Excel, Tally software is used for the activities related to finance and accounts section.
Student Admission and Support	For maintaining and managing students' admission details and other related details Smart student ERP System developed by SS TECK SERVICES, Chennai. The Students details, Contact address, their daily attendance etc., are maintained in the Smart Student ERP system.



Examination	The college has a well-equipped examination cell with a good level of automation and staff, headed by the full-time Controller of Examinations supported by the principal of the institution. Preparation of the question papers for conducting the assessment tests. A question bank containing all possible questions is prepared by each subject handling faculty and submitted to the exam cell for Assessment tests and model exams. Also the head of the departments give approval for the question after the verification of the questions which are meets the maps each question with the respective knowledge level as well as the course outcome.
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### 6.3 - Faculty Empowerment Strategies

6.3.1 - Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Dr. K. KAMAL BABU	Twodays workshop on IPR and patent filling	CED, ANNA UNIVERSITY	1000
2019	Mr. M. PRAKASH	Twodays workshop on IPR and patent filling	CED, ANNA UNIVERSITY	1000
2019	Mr. C. SIVACHANDRAN	Workshop On Entrepreneurship	CED, ANNA UNIVERSITY	1000

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6.3.2 - Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2020	One day Workshop on Innovative Pedagogies for Quality Enhancement of Teaching learning process	Nil	05/03/2020	05/03/2020	110	Nil
2019	Nil	Staff Development Programme on 5S File Management for Office	15/07/2019	15/07/2019	Nil	25
2019	Nil	MS OFFICE MANAGEMENT	19/08/2019	19/08/2019	Nil	25

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6.3.3 - No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Electric vehicle technology	2	03/04/2020	13/04/2020	10
Emerging trends in electric vehicles	4	14/05/2020	15/05/2020	2

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6.3.4 - Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
29	29	11	11

6.3.5 - Welfare schemes for

Teaching	Non-teaching	Students
Provident fund, Group Insurance, Special casual leaves, Long term leave for pursuing higher education in premium institutions, Cash incentives for publications and other achievements, Travel grant for attending conferences, workshops, STTPs, FDPs and research project proposal preliminary presentations, Faculty club. Free Transport, Free food, Fifty percent fee concession for wards in TJS group of intuition	ESI. Group Insurance. Special casual leaves Free Transport, Free food, Fifty percent fee concession for wards in TJS group of intuition. Cash incentives for project works and other achievements.	Cash incentives for project works and other achievements, Scholarship for top three GPA Rank students within the campus ranking, Clubs and Associations. Travel grant by Student Union. Competitive examinations (GATE) and online courses (NPTEL) fee reimbursement Travel grant for attending conferences, Tuition fee waiver for SC/ST students and first graduate students, Library book bank for economically backward students.

### 6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly (with in 100 words each)

State government grant: Audit is conducted annually by the office of the State Government Local Fund Audit and the consolidated report is submitted to the Directorate of Technical Education, Chennai, for further action. In case of discrepancies pointed out by the audit team, remarks from the college are sought out and if found satisfactory, the issue is closed. If not found satisfactory, suitable corrective action recommended by the DoTE is informed to the college for the closure of the issue. Management grant: Concurrent Audit is conducted by the audit team of the accounts department of the TJS Trust. The annual audit is conducted by the Chartered
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Accountant appointed by the Management and the report is submitted to the Chairman for further action. All receipts and payments in respect of Grants received from Government of India / Government of Tamil Nadu are audited regularly by internal external audits.

6.4.2 - Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Funds from Management	2808500	Management scholarship

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6.4.3 - Total corpus fund generated

7540

### 6.5 - Internal Quality Assurance System

6.5.1 - Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	Anna University Inspection, ISO 9001:2015	Yes	Principal, TJS Engineering College (Internal Auditing committee)
Administrative	Yes	ISO 9001:2015	Yes	TJS Management

6.5.2 - Activities and support from the Parent - Teacher Association (at least three)

1) Participation in parents meeting during the start of the academic year. 2) Participation in various interaction meetings with visiting accreditation committee members. 3) Participation as representatives in the Anti Ragging Committee. 4) Participation as Member in IQAC. 5) Participation as representatives in the Anti Drug Committee.

6.5.3 - Development programmes for support staff (at least three)

1 Soft skill training programme - To train the support staff to make them Tech savvy / 15 July 2019/ participated -10 2 Awareness Camp - Conduct of government online exams on campus 7th August 2019 / participated -10 3 Awareness Camp - Conduct of NEET exam on campus/ 6th November 2019 / participated-10

6.5.4 - Post Accreditation initiative(s) (mention at least three)

1. Conducting Value-added courses for all under graduate and post programme 2. Profiling of first year students for career counseling and introduction of employability enhancement courses 3. Appointment of department wise career counsellor and placement counselor. 4. Procurement of E-books and E-Journals in consultation with all the departments for the development of E-library. 5. Appointment of new external supporting trainers for Placement and Training. 6. Establishment of CII cell 7. Establishment of IIC cell

6.5.5 - Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	No
c)ISO certification	Yes
d)NBA or any other quality audit	Yes

6.5.6 - Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	IQAC MEETING - I	09/07/2019	09/07/2019	09/07/2019	20
2020	IQAC MEETING - II	14/02/2020	14/02/2020	14/02/2020	20
2020	IQAC MEETING - III	20/04/2020	20/04/2020	20/04/2020	20
2020	Academic Audit	03/02/2020	03/02/2020	03/02/2020	103
2020	Laboratory Audit	07/02/2020	07/02/2020	07/02/2020	103
2020	ISO internal Audit	11/02/2020	11/02/2020	11/02/2020	103

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### CRITERION VII - INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)



Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
International women's Day celebrations	07/03/2020	07/03/2020	84	Nil

## 7.1.2 - Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

## Percentage of power requirement of the University met by the renewable energy sources

ENVIRONMENTAL CONSCIOUSNESS The Institute is quite aware of its role towards the environmental consciousness and hence the institute is following the various green practices for the same. The college campus about 11.02 acres. There are more than 550 trees in the college. The green patch of the campus included well maintained in the gardens, plants and trees. Tree Plantation and maintenance is the major practice of the institute to maintain the pristine, purity and aesthetic beauty of the institute to provide a congenial atmosphere of the academic and non-academic pursuits. The Institute has pedestrian path on both side of road within the campus. Pedestrian roads are widely used by faculty and students. The college has its own bus facility for transportation. Transport department functions in the institute to provide transport facility to Student and staff from different destination. Students only 10 use bicycle that are staying around the College. The Institute provides a separate corner for parking bicycles used by some of the students. Plastic Items are strictly not allowed in the campus. Steel Plate, Steel Glass or Crystal Glasses are used in the College Canteen instead of Plastic plates and cups. Paper bags are widely used at the time of events. Enterprise Resource Planning (ERP) Software is a step towards e-governance. ERP consists of all student data related to their personal and curriculum profile and the software can generate various types of report related to student. E-notes are provided to students by staff to minimize the usage of papers. 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 social networking sites. Hi Speed Internet Wi-Fi facility is available for paper free practice. Sustainability/Alternate Energy initiatives The institute has installed solar panel for supplementing the need of power supply to the hostel. A Solar powered heater for the capacity of 1000 liters is installed and maintained efficiently. The institute makes every effort to integrate cross cutting issues as Gender, Climate Change, Environmental Education, Human Rights, ICT etc., into the curriculum. More than 100 fluorescent lamps have been replaced ranging from 18 to 24 watts. One KV ups installed at hostel for the student benefit. The Institute provides various means to educate the students Sustainability and alternate Energy Education. Some of the students initiatives • E-bike (solar power) • Lithium batteries • Bio-gas plant • Turbine energy

## 7.1.3 - Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	2
Provision for lift	No	Nil
Ramp/Rails	Yes	2
Braille Software/facilities	No	Nil
Rest Rooms	Yes	2
Scribes for examination	Yes	Nil
Special skill development for differently abled students	Yes	Nil
Any other similar facility	No	Nil

## 7.1.4 - Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	1	10/05/2020	2	Carrier Guidance	Higher Secondary	100
2020	1	1	16/03/2020	3	Awareness on Corona Virus and Dengue fever	COVID awareness	150

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## 7.1.5 - Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
CENTRE for AFFILIATION of INSTITUTIONS (formerly Centre for Engineering Partnership) ANNA UNIVERSITY CHENNAI	01/07/2019	since the institution is affiliated to Anna university the code of contact hand books issued by Anna university and AICTE is exclusively shared to all the stake holders frequent meeting are carried out in this regard and students are requested to registered the elective subjects on human values and professional ethics various guest lectures and workshops and events are also planned
Academic calendar - HANDBOOK	01/07/2019	The college hand book for each department is provided at the beginning of each academic year to all the faculty members and students of the college. The calendar contains the following: Vision and Mission of the college and the Department. List of members of the management

and their designation. Courses offered in the college, college timings. List of teaching and non-teaching faculty department wise with name and designation is presented. Details of various student associations, center's of excellence and for the betterment of students in discipline various committees are formed and listed out, such as Anti-ragging, Anti-drug, and internal complaint committee. Other details provided in the academic calendar are hostel, transport, attendance and mentor system.

#### 7.1.6 - Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Induction Programme	07/08/2019	15/08/2019	120
Voter Days	15/08/2019	15/08/2019	100
Entrepreneur Bazaar	10/08/2019	10/08/2019	200

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#### 7.1.7 - Initiatives taken by the institution to make the campus eco-friendly (at least five)

- Green landscaping with trees and plants
- Reuse of waste paper in collaboration with ITC
- No Plastic zone
- Two bin solid waste management system
- Tree Plantation and Herbal park establishment

### 7.2 - Best Practices

#### 7.2.1 - Describe at least two institutional best practices

**Best Practice I** Title of the Practice Evaluation Practices Objective of the Practice "To make every student excels in their subject". It is expected that every student should learn their subjects by understanding the concepts, and the development should be reflected in their performance in The University examinations. Hence, making students to get good marks in the examinations with constant academic improvement is focused. The Context One of the challenging issues faced by the institution while practicing this method is that conducting regular tests, evaluating, and arranging for re-test may affect the completion of the syllabus since it consumes the time of the class hours. To overcome this challenge, it becomes obvious to work extra hours. So that special classes are held in the evenings or in the weekends to conduct the tests. The Practice The institution practices its unique method of evaluating students. To assess the performance of the students, tests are regularly conducted and the performance level of the students is reviewed based on their marks in the unit tests. Once the unit is completed, the students have to write unit test. The questions for the unit test would be designed as per the Bloom's Taxonomy. It helps the students to understand the subject and to develop confidence in facing examinations. The students who get below 70 in the unit test need to write the re-test. In the re-test it is mandatory for them to get more than 70. Through this practice, the slow learners can improve their performance in the university examinations. There are some constraints in this Evaluation Practice. Students who don't regularly attend the cases, special tests are needed to evaluate their performance. And also, at times some students may consider the unit test with less vivaciousness by thinking that they can write the re-test. Evidence of Success The impact of this Evaluation Practice is reviewed based on the improvement in the performance of the students in the unit tests. It is ensured that the level of each student is increased with every test. The success of this practice is reflected in the university examinations. The ranking place of the college has tremendously been increased in the last 3 years. At first the college has got 163rd rank, in the year 2018 the college has been ranked in 58th place among the 530 colleges which come under Anna University. Problems Encountered and Resources Required It is difficult to evaluate the students who absent themselves in the unit tests. To encounter this problem, it is made sure that no student skips the tests. Moreover, special tests are conducted for the students whose level of performance is low and also to the students who do not attend the tests. When the students are evaluated and if they are found to be low in their performance, special classes are conducted in the weekends. This improves the performance of the students in the upcoming tests and examinations. By this method students are made fearless to face the university examinations. **BEST PRACTICE II** Title of the Practice WOW - Well-being out of Waste - A Green Initiative Objectives of the Practice The main purpose is to create a cleaner and better environment and also aims in developing appropriate knowledge to manage and dispose waste materials among the students. Initiative is being taken for recycling paper and reducing the hazards associated with it. The Context Recycling and management of waste paper are the main activities practiced. Paper is an essential commodity linked with the educational growth of our students. The demand which is increasing by leaps and bounds is met through this process and it also supports and benefits the environment. The Practice The innovative paper recycling is done systematically. Waste paper is collected in an organized manner. Waste collection such as examination papers, old newspapers, unwanted office documents, shredded papers and carton boxes are segregated and transported for recycling. Incineration method of waste disposal is not exercised in our campus as we are aware of the emission of gaseous pollutants. Evidence of Success We have received annual "Recycling" certificate for the contribution towards the greenest option and ecological sustainability. Problems encountered and resources required During monsoon paper waste will become damp as this significantly reduces the recycling process. Sometimes paper waste gets mixed with other wet waste when it is unknowingly dumped in the trash bin which is not meant for it. This can be prevented as it is just a matter of consciousness and motivation.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<http://tjsec.in/aqar-2019-2020/>

### 7.3 - Institutional Distinctiveness

#### 7.3.1 - Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

T.J.S ENGINEERING COLLEGE (TJS) is a self-financing, quality conscious and trend setting Institute with focus on providing equal opportunities for development of human potentials for every segment of society including the differentiated one. Some of the institutions distinctive activities. • "To promote education through a holistic manner to make them (the student) • "To make them responsible citizens to participate in the advancement of the • society" • "To make them contribute to the national growth and the world at large" • "To promote excellence, quality and relevance in the field of technology to suit the industry needs" The TJS is a venture of its own kind where academics and professionals have joined hands to aid and direct the agenda of education. The Institute, situated in the heart of Peruvoyal is spread over about 8 acres of land and has best of Infrastructure and academic facilities with highly qualified and experienced staff and state of the art computer labs. The

Institute has been established through the dedicated and selfless Endeavour's of educationists and social workers who are deeply concerned with the standards of education and are determined to upgrade the quality, content and direction of education. TJS has an Intellectual capital comprising of 50 faculty members dedicated to facilitate acquisition of conceptual understanding, skills and requisite behavioral qualities to groom students into tomorrow's Universal Professionals. In terms of placement, TJS boasts of not only a steady stream of campus recruiters but we have also assurances for future tie-ups and recruitment opportunities for our students. Thus the institution ensures that every student gets knowledge in their field to become more successful in their academic performance as well as in their performance in the work places. For this, value added courses are taught to the students they are sent to seminars, workshops, and symposia. This practice contributes to the growth of their capabilities.

Provide the weblink of the institution

<http://tjsec.in/>

#### 8.Future Plans of Actions for Next Academic Year

As part of continuous improvement, we have planned to make the Academic Calendar activity-oriented. Guest lectures, industrial interaction and industrial visits will be scheduled, so as to bridge the gap between classroom teaching and industrial requirements. More activities of Social Outreach would be organized like donation camps, blood donations, plantation drives, and environment awareness events through NCC, NSS, YRC and Red Cross etc. We at TJS Engineering College are initiating next generation educational atmosphere for our students through the following activities. INSTITUTIONS INNOVATION CELL CONFEDERATION OF INDIAN INDUSTRY: An initiative of MHRD/MOE - Central government of India is the INSTITUTIONS INNOVATION COUNCIL (IIC) - a part of the MIC - Ministry of education's innovation cell. This IIC is a council established in all HEI's for the empowerment of students in innovation, entrepreneurship, internship, social media IPR activities. Hence we at TJS have planned to apply for IIC in the upcoming academic year. The Confederation of Indian Industry (CII) has been conducting the impact survey and survey of industry linkages of technical institute in partnership with AICTE. The objectives of the survey are to showcase best practice of industry partnership across AICTE approved technical institutes' in the streams of engineering. Hence we at TJS have planned to make the CII survey in the upcoming academic year. ENTREPRENEURSHIP DEVELOPMENT CELL: A well established centre for entrepreneurship in the institution is expected to create many start ups and innovative entrepreneurs in collaboration with IIC and CII. The amount of activities and its caliber shall be increased exponentially in the upcoming year.