

## **The Annual Quality Assurance Report (AQAR) of the IQAC**

*(For Affiliated/Constituent Colleges)*

### **Part – A**

#### **1. Data of the Institution:**

Name of the Institution	Lokmanya Tilak College of Engineering
Name of the Head of the Institution	Dr Vivek. K. Sunnapwar
Designation	Principal & Director
Does the Institute function from own campus	Yes
Phone Number	022-27541005 / 06
Mobile	9821221952
Registered e-mail	Principal.ltce@gmail.com
Alternate e-mail	skshinde@rediffmail.com
Address	Sector 4, Koparkhairane, Navi Mumbai - 400709
City	Navi Mumbai
State	Maharashtra
Pincode	400709

#### **2. Institutional Status:**

Affiliated / Constituent	Affiliated to the University of Mumbai
Type of Institution	Co-Education
Location	Urban
Financial Status	Self-Financing
Name of the Affiliating University	University of Mumbai
Name of IQAC Coordinator	Dr S.K.Shinde
Phone Number	022-27541005 / 06
Alternate Phone Number	9594170066
IQAC e-mail address	naac.ltce@gmail.com
Alternate e-mail address	principal.ltce@gmail.com
Website	www.ltce.in

#### **3. Website Address:**

Institute Website	www.ltce.in
Weblink of AQAR of previous year	NA

❖ **Academic Calendar:**

Academic Calendar for the current term (link)	<a href="http://ltce.in/assets/Acdemic_Calender_2018-19_for_Odd_Semster.pdf">http://ltce.in/assets/Acdemic_Calender_2018-19_for_Odd_Semster.pdf</a>
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**(i) Accreditation Details:**

Cycle	Grade	CGPA	Year of Accreditation	Validity
1 <sup>st</sup> Cycle	B ++	2.95	2017	From 30/09/2017 to 29/09/2022

**Date of Establishment of IQAC:**

Date of Establishment of IQAC	13/07/16
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**7. Internal Quality Assurance System:**

**7.1 Quality Initiatives by IQAC during the Year for promoting Quality Culture**

Item / Title of the quality Initiative by IQAC	Date & Duration	No of participants Beneficiaries
1. Improvement in teaching learning process- through benchmarking & best practices. By following OBE methodologies. Gearing up for NBA in the near future.	July 2016 to July 2017	15
2. Increase Industry interaction for inputs with regards to curriculum development, state of the art in industry, internships, projects etc.	July 2016 to July 2017	15
3. Improve placements by roping in more industries & conducting job fairs with the help of professional bodies like ISHRAE.	July 2016 to July 2017	15
4. Preparation of AQAR for recording various steps taken to monitor & improve the quality culture.	July 2016 to July 2017	15

**8. List of funds by Central / State Government**

**(UGC/CSIR/DST/DBT/ICMR/TEQIP/WORLD BANK/ CPE OF UGC)- NO**

Institution / Department / Faculty	Scheme	Funding Agency	Year of award with duration	Amount
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**9. Whether composition of IQAC is as per latest guidelines of NAAC: Yes**

**Weblink of IQAC formation : <http://ltce.in/assets/IQAC.pdf>**

**10. No of IQAC meetings held during the Year: 03**

**Minutes are uploaded on website.**

**11. Whether IQAC received funding from any agencies to support its activities during the year. - No**

**If Yes then Amount Rs.**

**Year:**

**12. Significant contributions made by IQAC during the Year**

<ul style="list-style-type: none"> <li>Teaching Learning Process</li> </ul>	Provision of LCD'S in 8 classrooms for making multimedia classrooms enabling teaching through ICT. Gearing up for NBA in the near future. We have tied up with organizations for aptitude & soft skills training of students.
<ul style="list-style-type: none"> <li>Project Based Learning</li> </ul>	We encourage SAE car building competition in SAE BAJA , SUPRA & FORMULA 1 in which students from all branches participate. In April 2018, our students participated at Maryland, USA.
<ul style="list-style-type: none"> <li>Projects based on Social themes</li> </ul>	Two groups have been given project on i) Sand cleaning ii) Sky saver iii) Sedating tiger using drones These groups will work with civic bodies namely NMMC & others.
<ul style="list-style-type: none"> <li>Industry-Institute Interaction</li> </ul>	Project competition organized by ISHRAE in which students get funding. ISHRAE job fair for placements in core mfg. companies. MOU with Red- Hat technologies for various value-added courses.
<ul style="list-style-type: none"> <li>Upgradation of laboratories</li> </ul>	Laboratories in all departments have been upgraded to the state-of-the-art technologies as per syllabus. Supporting software's also have been purchased.

**13. Plan of action chalked out by IQAC in the beginning of the academic year towards quality enhancement and the outcome achieved by the end of the academic year.**

Plan of Action	Achievements / Outcomes
1. Applied for NAAC in 2017	Got NAAC with CGPA of 2.95 & B ++ grade in September 2017 and are accredited up to September 2022.
2. Preparing for NBA	We are following OBE methodologies & will apply in the near future.
3. Industry-Institute Interaction	We have been successful in getting internships, projects & better placements. We have also done MOU'S for mutual sharing.
4. Improved pedagogies for better teaching learning.	Upgraded ICT classrooms.

**14. Whether AQAR was placed before statutory body: Yes.**

**Name of the Statutory Body: Governing Body, LTJSS**

**Date of Meeting: July 2017**

**15. Whether NAAC or any other accredited body visited IQAC or interacted with it to access the functioning: NO**

**Date: ---**

**16. Whether Institutional Data Submitted to AISHE: Yes**

**Year: 2017**

**Date of Submission: February 2017**

**17. Does the Institute have Management Information System: Yes?**

**Brief Description:**

The institute has its own ERP system for administrative & academic operations. The following modules are functional.

- (i)** Admission: Students enrol on ERP and they have unique ID for the course.
- (ii)** Faculty roll / attendance: The biometric attendance is integrated with ERP for salary purpose.
- (iii)** Faculty ERP: Each faculty has own login to access and update profile, leave, teaching plan, student attendance.
- (iv)** Time tables & student attendance.
- (v)** Maintenance applications are forwarded by faculty through this module.

**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 institute is affiliated to University of Mumbai and follows the curriculum prescribed by the university in a systematic way:

Before the start of every academic session, Principal along with the Director and Vice- Principal conducts an IAC meeting with Heads of all the Departments and finalize the Academic Calendar in alignment with the university schedule. Subjects are allocated to the faculties based on their subject expertise and interests well in advance. Time table for every semester is prepared by the respective Time Table coordinators of various departments in consultation with the HODs and the load distribution is informed to the Principal. The university provides the syllabus with evaluation schemes and course objectives for every course. Faculty follows the evaluation scheme mentioned in the syllabus for each course. Course Objectives and Course outcomes of the subjects in accordance with the university prescribed syllabus are decided by the respective subject in charge in consultation with the HOD. Teaching plan and the assignments for the semester are prepared by the respective subject in charge before the start of the new semester. Performance of the students in laboratory experiments are timely assessed and graded according to the performance indicators. Depending on the evaluation scheme, two class tests for 40% and 80% syllabus are conducted per semester taking in to consideration the COs defined for each course to evaluate the students. The result analysis of the internal assessment is done and proper measures are incorporated to improve the performance by arranging remedial classes for the weaker students and giving additional assignments/tasks to the brighter students. Course files are maintained by faculty members which contains Academic calendar, Individual timetable, Teaching plan, Assignments, Class test question papers, University question papers, question banks, Quiz, Performance details etc. Remedial classes are conducted for slow learners. In addition to traditional teaching methods, video lectures, NPTEL lectures, OHP, PowerPoint presentations, projects, case studies, surveys etc are being conducted. Guest lectures are regularly arranged to bridge the gap in the prescribed curriculum. An IAC meeting is conducted at the end of the semester to conclude the academic session. At the end of every semester course exit feedback is taken from the students and analysed for proper measures. The faculty in charge maps the course outcome with the program outcomes to ensure the attainment of the curriculum. Students are encouraged to do final year projects in industries thereby giving them the exposure to the recent trends in industries. Students are encouraged to undergo industrial internships and industrial visits during vacation periods. Students are given training in various software’s so as to enhance global employment opportunities. Special emphasis is given on the development of the overall personality of the students through the conduction of various personality development programmes. Students are encouraged to participate in NSS and other social activities so as to enable them to be socially responsible citizens. Seminars, value added courses and industrial visits are arranged to enrich the curriculum. Orientation programmes for the new courses are arranged by the institute in consultation with BOS of the University.

**1.1.2 Certificate/ Diploma Courses introduced during the Academic year**

Name of the Certificate Course	Name of the Diploma Courses	Date of introduction and duration	focus on employability/ entrepreneurship	Skill development

Red Hat India Pvt.Ltd.		24/11/2017 one year	focus on employability	certification of Red Hat Linux	
NPTEL	-	JAN2016(4/8/12) WEEK	YES	YES	
<b>1.2 Academic Flexibility</b>					
<b>1.2.1 New programmes/courses introduced during the Academic year</b>					
<b>Programme with Code</b>	<b>Date of Introduction</b>	<b>Course with Code</b>	<b>Date of Introduction</b>		
NA	-	-	-		
<b>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.</b>					
<b>Name of Programmes adopting CBCS</b>	<b>UG</b>	<b>PG</b>	<b>Date of implementation of CBCS / Elective Course System</b>	<b>UG</b>	<b>PG</b>
Bachelor of Engineering (Electronics Engineering)	UG	-	9 <sup>th</sup> July 2018 for Third year students/ Digital Control Systems, Microwave Engineering	UG	-
Bachelor of Engineering (Electrical Engineering)	UG	-	9 <sup>th</sup> July 2018 for Third year students/ UEE	UG	-
Bachelor of Engineering (Computer Engineering)	UG	----	09/07/2018 for Third year students/ 1. Multimedia System 2. Advanced Algorithms	UG	-----
Bachelor of Engineering (Electronics & Telecommunication Engineering)	UG	-	09/07/2018 for Third year students/ TV and Video Engineering, Data Compression and Encryption, Open source technology for communication lab	UG	
Bachelor of Engineering (Mechanical Engineering)	UG		09/07/2018 for Third year students		
Already adopted 2016 for First year, 2017 for Second Year					
<b>1.2.3 Students enrolled in Certificate/ Diploma Courses introduced during the year</b>					
No of Students	Certificate	Diploma Courses			
23	MICROSOFT Technology Associate				
Registered -345 Certified -51	NPTEL				
<b>1.3 Curriculum Enrichment</b>					
<b>1.3.1 Value-added courses imparting transferable and life skills offered during the year</b>					
Value added courses	Date of introduction	Number of students enrolled			
Raspberry Pi	16 to 17 <sup>th</sup> March 2018	33 (Electronics)			
TAACT Course on Drives & Controls	25 <sup>th</sup> March 2018	3 (Electrical)			
PHP	04/08/2017	09 (Computer)			
1.National level Automobile	Comprehensive Development	27-6-17 to 4-7-2017	165 (Mechanical)		

Internship (CADI)program		
2. Piping Engineering: Scope in industry	22-09-2017	195
3.. National level Comprehensive Automobile Development Internship (CADI)program	09-01-2018 to 16-01-2018	175
4.Workshop on Ansys APDL		
5.. National level Comprehensive Automobile Development Internship (CADI)program	23-01-2018 to 31-01-2018	210
6.National Level Drone Development Internship	07-07-2018 to 13-07-2018	150
	07-07-2018 to 13-07-2018	30

**1.3.2 Field Projects / Internships under taken during the year**

Project/Programme Title	No. of students enrolled for Field Projects / Internships
<b>Electronics Engineering</b>	
<p>1. Design and Implementation of War Field Spying Robot along with gas sensor and Land Mine Detector</p> <p>2. Automatic Speed Control of Vehicle in Restricted Areas</p> <p>3. Fire Detection and Alarm System</p> <p>Internships – Summer Training</p>	<p>08 Students (03 Project groups) have enrolled for outhouse Projects to various industries.</p> <p>17 students have opted for Summer Training at various field locations as follows:</p> <ol style="list-style-type: none"> <li>1. Reliance Globalcom Ltd.</li> <li>2. Eledia Technologies</li> <li>3. Hindustan Coca Cola Beverages Pvt. Ltd.</li> <li>4. Connect well</li> <li>5. Jaywanti Industries</li> <li>6. B2 Jobs Consultancy Service</li> <li>7. Build My Project</li> </ol>
<b>Electrical Engineering</b>	
<ol style="list-style-type: none"> <li>1. Power efficient smart system for homes &amp; office appliances using PWM technique.</li> <li>2. Electric torque vectoring for electric vehicles.</li> <li>3. IoT based design and development of fault passage indicator in medium voltage distribution system</li> <li>4. Evaluation of volumetric concentration of ferrofluid used in high power transformers</li> <li>5. Design and testing of reactors</li> <li>6. Design and performance of 3 phase double layer induction motor</li> <li>7. Low tension underground cable fault analysis.</li> <li>8. Cost-effective single-phase grid tie photo voltaic inverter</li> </ol> <p>Internships – Summer Training</p>	<p>30 Students (08 Project groups) have enrolled for Field Projects to various industries.</p> <p>36 students have opted for Summer Training at various field locations as follows:</p> <ol style="list-style-type: none"> <li>1. MAHATRANSCO, Kalwa</li> <li>2. SAMCON industrial controls pvt. Ltd</li> <li>3. Blue Star Ltd., Mumbai</li> <li>4. Greater Mumbai Milk Scheme, Worli dairy</li> <li>5. Century Rayon, Shahad</li> <li>6. Rashtriya chemicals &amp; fertilizers ltd.</li> <li>7. Bharat Petroleum Corporation Ltd. Mumbai refinery.</li> <li>8. BARC, Mumbai</li> <li>9. Brihan Mumbai Electric Supply &amp; Transport (BEST)</li> <li>10. Ashok Electro-Mech Industries, Thane</li> <li>11. Hindustan Petroleum Corporation Limited, Chembur</li> <li>12. Siemens, Worli Mumbai</li> </ol>

		13. Deepak Fertilisers and Petrochemicals Corporation Ltd., MIDC Area, Taloja 14. Mazagon Dock Shipbuilders Ltd.		
<b>Electronics &amp; Telecommunication Engineering</b>				
1. Automatic fault detection on railway track (Mumbai central railway)		4		
2. Telephone defence production, switching access product		15		
<b>Computer Engineering</b>				
Web Development/Android App/Networking/SAP		15		
<b>Mechanical Engineering</b>				
Field Project		36		
Internship		94		
<b>1.4 Feedback System</b>				
1.4.1 Whether structured feedback received from all the stakeholders.				
1) Students	2) Teachers	3) Employers	4) Alumni	5) Parents
Yes	Yes	Yes	Yes	Yes
<b>1.4.2 How the feedback obtained is being analysed and utilized for overall development of the institution? (maximum 500 words)</b>				
<p>Feedback form/formats are designed for the stakeholders. This includes faculty feedback, alumina feedback, student feedback, course exit survey, etc.</p> <p>Faculty feedback from the students for the respective course is taken twice in a semester on various teaching/learning aspects and it is analysed by the HODs and corrective measures if any, are informed to the respective faculties for further improvements.</p> <p>Course exit feedback and program exit feedbacks are taken to analyse the understanding capability of the students. Feedback about the infrastructural facilities are taken from the final year students at the end of the program for improving the lab facilities, if any. The feedback so obtained is analysed for further improvement. Feedback from the parents are taken by interacting with them during Parent Teacher Meet. Feedback is taken from alumni for suggestions or improvements in the curriculum. Feedback from the final year students are taken for their suggestions in improving the curriculum and it is conveyed to the Chairman, BOS of the respective programmes of University of Mumbai. Feedback from faculties are also taken for their suggestions in syllabus revision. Feedback is also collected from the companies. This feedback is discussed in meeting of training and placement cell. Library has predesignated feedback forms which are kept on the circulation counter and open to fill-up by any user as per their wish. The collected data is entered in excel sheet and is presented in front of library committee for review and discussion. We have also installed a suggestion box which is accessible to all the stake holders so that they can give their feedback/ suggestions for improvements, if any.</p> <p>LTJSS team conducts the exercise of student feedback every year. We have a system of taking feedback from students on infrastructure and also subject wise teachers. This is a feedback on 5-point scale, which measures parameters like Subject knowledge, Expression, Teaching aids used, methodology etc. which is analysed by our management for taking appropriate decisions for improving the infrastructure and also quality of teachers. The alumni feedback and exit feedbacks are taken from all students. From these forms we are able to make out whether the proper teaching learning process is in place. Also, this process enables the institute to improve in the areas where ever necessary. Every semester junior faculties evaluation is processed by senior faculties, subject experts and inform to the faculties for enhancing their skills. The</p>				



feedback is key tool which triggers in continuous improvement in the quality of education. The feedback is taken from students in order to analyse and implement as per their needs. Also, feedback is taken from experts and external examiners on quality of our students. Based on the faculty feedback the probationers and regular faculty are counselled for the lacunae. Based on the above feedbacks and suggestions received we take corrective actions to complete the loop.

## CRITERION II -TEACHING-LEARNING AND EVALUATION

### 2.1 Student Enrolment and Profile

#### 2.1.1 Demand Ratio during the year

Name of the Programme	Number of seats available	Number of applications received	Students Enrolled
Computer Engg	120	CAP round by DTE	121
Electrical Engg	60	CAP round by DTE	42
Electronics Engg	60	CAP round by DTE	11
Electronics & Telecommunication Engg	60	CAP round by DTE	42
Mechanical Engg	120	CAP round by DTE	96
Mechanical Engg II	60	CAP round by DTE	42
Electronics & Telecommunication Engg II	60	CAP round by DTE	37
Mechanical Engg (PhD)	06	22	04
Mechanical Engg (PG)	18	CAP round by DTE	2

#### 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 full-time teachers available in the institution teaching only UG courses	Number of full-time teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
FE	391	6	18	NA	18
<b>Computer Engg</b>					
FE	121	3			
SE	118	1			
TE	115				
BE	130		23	2	3
<b>Electrical Engg</b>					
FE	42				
SE	51				
TE	59				
BE	67	NA	11	NA	
<b>Electronics Engg</b>					

FE	11				
SE	17				
TE	14				
BE	25	NA	11	NA	
Electronics & Telecommunication Engg					
FE	42				
SE	39				
TE	61				
BE	53	NA	10	NA	
Mechanical Engg					
FE	96	3			
SE	96	2			
TE	191				
BE	196		24	02	03
Mechanical Engg II					
FE	42				
SE	43				
TE	53				
BE	57		22	NA	
Electronics & Telecommunication Engg II					
FE	37				
SE	34				
TE	37				
BE	37		10	NA	
Total	1884		127		

### 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 ( <i>LMS, e-Resources</i> )	ICT tools and resources available	Number of ICT enabled classrooms	Number of smart classrooms	E-resources and techniques used
10 (ETRX)	10	Projector, Computer, Internet Facility	1 seminar hall	Nil	e-journals, e-books, NPTEL
24 (COMP)	24	Projector, Computer, Internet Facility	2 classrooms and 1 seminar hall		NPTEL, Blog, College website, subscription to ScienceDirect, IEEE, e-journals, e-books, online datasets
15 (EXTC)	15	Projector, Computer,	1 seminar hall	Nil	e-journals, e-books,

		Internet Facility			NPTEL
11 (ELECT)	11	MS Word MS Excel Power Point Internet access PDF Board Printer USB ports Intranet Lan	01	Nil	Online 24hrs internet ; Wi-fi; E- library
43 (MECH)	22	Projector room		Nil	E-journals, e-books etc
17(FE)	17	Projector, Computer, Internet Facility	01 audio visual Language lab	Nil	Video lectures

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

Yes, Teacher Guardian Scheme is implemented in the institute wherein 15 to 20 students are assigned to a faculty member who acts as their mentor for the entire programme duration. Mentor regularly interacts with the students and monitor their academic performance and attendance. Students are counselled by the mentors, class advisors, subject faculties and HOD for improving their academic performance and attendance. Mentors and Class Advisors counsel the students regarding their performance and schedule additional lectures/practical's. At first year level, student's academic and personal issues of concern are well looked after by the class advisor/mentors. The critical cases are handled by first year in charges. This way the students realize their responsibilities at the early stage itself. Mentoring system is followed by all departments from the second year onwards. The students are given guidance for career, personal, besides academic issues. A special arrangement also, is made available to the students to deal with psychosocial issues arising in cases like single parenting, bread earner in the family etc. For higher semesters, the mentors allocated to the students will council same group of students for three years i.e. the same set of students will be monitored and counselled till they have passed the course. The meetings of mentorship are conducted every month, in which students meet their mentors for academic and personal issues. The students who have less attendance and who have missed their internal tests are paid special attention from mentors side. Even the students with many issues are asked to call parents for parents- mentor meetings. The mentor is also responsible to provide counselling to the student and provide guidance regarding personal and academic issues. The mentor keeps track on their improvements and counsels them accordingly. The role of the mentor is to nurture the students and guide them for any issues they are coming across. Students with personal/family problems if any, are given counselling and support by a professional counsellor. A large number of students who perceive the professional course are quite focussed, still they may fall short of score to be promoted to above sections. Such students are given counselling by the mentors and the subject teachers and remedial lectures are conducted. Students are supported and guided both in co-curricular and extracurricular activities . The mentors of the class discusses with each and every student individually and supports them in all the possible ways to enrich their academic performance. The mentors contacts the parents and educates them, if required about their wards performance, and the academic programmes of the college as well as the support system and the monitor system the student and parents. The mentors always keeps a check on the attendance of the student, the marks/grades obtained in the internals & externals examinations, and regarding his/her candidature in the campus placement and provides remedial coaching.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor: Mentee Ratio
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1884

134

1:14

**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.
23 (COMP)	24	NIL	04	02
09 (ETRX)	10	NIL	NIL	04
18 (EXTC)	19	NIL	NIL	02
11 (ELECT)	11	03	NIL	01
43 (MECH)	43	NIL	NIL	08
19(FE)	17	02	NIL	04

**2.4.2 Honours and recognitions 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
2017-18	Dr. Sheeba P.S.	Associate Professor	1) Fellow member: IETE 2) Emerging Leader Award, at Higher Education leadership meet HELA 2018 organized by Venus foundation. 3) Organizing committee member, 14 <sup>th</sup> World Conference on Applied Science, Engineering & Technology
2017-18	Dr. Prerana Shrivastava	Assistant Professor	Received an Award for Research Excellence at Global Summit in domain of Wireless Adhoc Networks
2017-18	Mr. Mohd. Farhan	Assistant Professor	Book Entitled "Electronic Devices and Circuits" included in CBCS Syllabus of Mumbai University
2017-18	Dr. Ravindra Duche	Professor	Copyright on "Creative assignments for Engineering and Technology students"

2017-18	Dr. C M Wankhade	Assistant Professor	Minor Research Grant of Mumbai university)
2017-18	Mrs. Shilpa Kapse	Assistant Professor	Minor Research Grant of Mumbai university)
2017-18	Mrs. Rekha Sonune	Assistant Professor	Minor Research Grant of Mumbai university)

## 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

Program me Name	Programm e Code	Semester/ year	Last date of the last semester-end/ year- end examination	Date of declaration of results of semester-end/ year- end examination
First Year	FE	I	30/12/17	12/02/18
		II	12/06/18	19/07/18
Electrical Engg.	ELECT	III	19/12/17	31/01/18
		IV	08/06/18	06/08/18
		V	14/12/17	31/01/18
		VI	11/06/18	06/08/18
		VII	18/12/17	23/02/18
		VIII	28/05/18	07/07/18
Electroni cs Engg.	ETRX	III	19/12/17	23/01/18
		IV	08/06/18	24/07/18
		V	14/12/17	23/01/18
		VI	11/06/18	24/07/18
		VII	18/12/17	26/02/18
		VIII	28/05/18	26/07/18
Electroni cs & Telecom municatio n Engg.,	EXTC	III	13/12/17	23/01/18
		IV	08/06/18	24/07/18
		V	14/12/17	23/01/18
		VI	11/06/18	24/07/18
		VII	18/12/17	23/02/18
		VIII	28/05/18	11/07/18
Mechanic al Engg.,	MECH	III	19/12/17	31/01/18
		IV	08/06/18	27/07/18
		V	14/12/17	31/01/18
		VI	11/06/18	27/07/18
		VII	18/12/17	08/03/18
		VIII	28/05/18	26/07/18
Computer Engg.,	COMP	III	19/12/17	22/01/18
		IV	08/06/18	24/07/18
		V	08/12/17	22/01/18
		VI	30/05/18	24/07/18
		VII	12/12/17	23/02/18

		VIII	28/05/18	06/07/18	
University results are declared within 45 days after the completion of examination.					
<b>2.5.2 Reforms initiated on Continuous Internal Evaluation (CIE) system at the institutional level (250 words)</b>					
<p>The institute has a college level Exam committee and a department level internal exam committee. The exam committee works under the supervision of the Head of the institute. The institute exam committee takes the overall responsibility of conducting the end semester examination and the evaluation process of answer sheets and preparing the results. Every department has an internal exam committee responsible for the preparation of Timetable, setting of the question paper, declaration of the results of internal tests. After evaluation of internal tests, the answer sheets are shown to the students for any grievances. The grievances of the students are considered and looked into at the department level. The average of the two internal tests are considered for the internal assessment marks. The main reforms initiated by the exam cell committee is the timely declaration of the results and the moderation of the question papers. For the continuous evaluation process, internal tests, assignments, quiz, presentations, lab work, seminars etc are taken into consideration. Term work marks are given to the student depending on the continuous performance in the internal assessment. The rubrics for each practical and tutorial are based on the parameters: performance, lab ethics, self-learning initiative, conceptual understanding, punctuality and attendance.</p>					
<b>2.5.3 Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)</b>					
<p>Before the start of every academic session, Principal along with the Director and Vice- Principal conducts an IAC meeting with Heads of all the Departments and finalize the Academic Calendar in alignment with the university schedule. College academic calendar is designed considering all events in accordance with the University academic calendar. In all 15 weeks are planned which mainly include commencement date, closing date of the term, dates of internal tests I and II, college festivals, submissions, oral / practical exams etc. Schedule for internal exams and tentative dates for University theory and practical exams are displayed in academic calendar. Curricular and extra-curricular activity dates, exam schedules and other activity dates are displayed in the academic calendar. Dean Academics is in charge of academic monitoring cell. Academic monitoring cell is responsible for ensuring proper academic calendar and teaching learning process. It monitors all parameters right from attendance, (75 % attendance is mandatory as per University rules), assignments, practical's / labs, internal tests. List of defaulter students is notified fortnightly and the parents are informed. Teachers are supposed to maintain course files of their subjects. All assignments are given in first two weeks, so that students can plan and complete the assignments in time. Parent teacher meeting date is also mentioned in the academic calendar. Faculty conducts lectures and practical's as per the timetable in alignment with the academic calendar. Exams and result declaration are strictly followed on the dates mentioned in the academic calendar.</p>					
<b>2.6 Student Performance and Learning Outcomes</b>					
<b>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)</b>					
<p>Yes, the Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in the website:  <a href="https://www.ltce.in/">https://www.ltce.in/</a></p>					
<b>2.6.2 Pass percentage of students</b>					
Programme Code	Programme name	Number of students appeared in the final year examination		Number of students passed in final semester/year examination	Pass Percentage
???? EL	???? Elec	??	????	?????	??????????????

ECT	trical??En gg			
ETRX	Electroni cs Engineeri ng	44	41	93.18
EXTC	Electroni cs & Telecom municatio n Engineeri ng	131	124	94.6
COMP	Computer Engineeri ng	139	134	96.40
MECH	Mechanic al	320	228	71.25

## 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)

Institute has designed a questionnaire in google forms and the results & details are provided in the following link,

[https://docs.google.com/forms/d/1RGb9uvfu\\_IrHvMLn8BHOG\\_PiO8B52dc2En5EGUo2sYc/edit#responses](https://docs.google.com/forms/d/1RGb9uvfu_IrHvMLn8BHOG_PiO8B52dc2En5EGUo2sYc/edit#responses)

<https://docs.google.com/spreadsheets/d/1BOEs8yZ2IAhIB9Kw24HJL9N-4lxlyBNaoapeorrFSw0/edit#gid=1420185647>

<b>CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION</b>				
<b>3.1 Resource Mobilization for Research</b>				
<b>3.1.1 Research funds sanctioned and received from various agencies, industry and other organisations</b>				
Nature of the Project	Duration	Name of the funding Agency	Total grant sanctioned	Amount received during the Academic year
Major projects				
Minor Projects (Minor research grant received by 2 faculty members of Mechanical dept)	?? ????????	University of Mumbai	?????lakh	
Minor (Minor research grant received by 1 faculty member of Electronics dept)	2017-18	University of Mumbai	0.45 lakh	0.45 lakh
Minor (Minor research grant received by 6 faculty members of EXTC dept)	2017-18	University of Mumbai	0.89 lakh	0.89 lakh
Interdisciplinary Projects	2017-18	Dhan vallabh trust	1.25 lakh	1.25 lakh
		Sane bros	1.10 lakh	1.10 lakh
		Gulf Oil	0.70 lakh	0.70 lakh
		Math Bros	0.60 lakh	0.60 lakh
Industry sponsored Projects				
Projects sponsored by the University/ College College Sponsored Project (Formula SAE car)	2017-18	LTCE Management	3.80 lakh	3.80 lakh
College Sponsored Project (SAE team TT car)	2017-18	LTCE Management	0.20 lakh	0.20 lakh
College Sponsored Project (SAE team SUPRA car)	2017-18	LTCE Management	0.49 lakh	0.49 lakh
Projects sponsored by the University/ College	6 months	College (Intranet Departmental Project)	-	College resource Utilised (2017-18)
Students Research Projects				



<i>(other than compulsory by the College)</i>				
International Projects				
Any other (Specify)				
Total				
<b>3.2 Innovation Ecosystem: Nil</b>				
<b>3.2.1 Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year</b>				
Title of Workshop/Seminar	Name of the Dept.		Date(s)	
-	-		-	
<b>3.2.2 Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year: Nil</b>				
Title of the innovation	Name of the Awardee	Awarding Agency	Date of Award	Category
-	-	-	-	-
<b>3.2.3 No. of Incubation centre created, start-ups incubated on campus during the year; Nil</b>				
Incubation Centre	Name		Sponsored by	
-	-		-	
Name of the Start-up	Nature of Start-up		Date of commencement	
-	-		-	
<b>3.3 Research Publications and Awards</b>				
<b>3.3.1 Incentive to the teachers who receive recognition/awards</b>				
State	National		International	
-	21		35	
<b>3.3.2 Ph. Ds awarded during the year (applicable for PG College, Research Centre) 01</b>				
Name of the Department		No. of Ph. Ds Awarded		
Mechanical Engineering		1		
<b>3.3.3 Research Publications in the Journals notified on UGC website during the year</b>				
	Department	No. of Publication	Average Impact Factor, if any	
National		21 Total		
International	Computer Engg	11		
	Mechanical Engg	10		
	Electronics & Telecom Engg	8		
	Electrical Engg	4		
	Electronics Engg	2		
<b>3.3.4 Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year</b>				
Department		No. of publication		

Computer Engg ( Springer book Chapter )			Computer Engg ( Springer book Chapter )			
<b>3.3.5 Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or Pub Med/ Indian Citation Index</b>						
Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self-citations
Novel approach to information security management of confidential and proprietary information using image steganography	Dr. Ravindra Duche	Journal of Fundamental and Applied Sciences	2018	---	LTCE	---
A book chapter titled: Captioning the Images: A Deep Analysis	Ms. Chaitrali Chaudhari	Springer AISC Series on Springer Link: 'Computing, Communication and Signal Processing' 464886_1_En (Chapter - 100)Copyright Year 2019, Copyright Holder Name Springer	2018	---	LTCOE, Koparkhairane	---

		Nature Singapore Pte Ltd.,				
Automatic and Intelligent Integrated System for Leakage Detection in Pipes for Water Distribution Network Using Internet of Things	Ms. Shikha Pranesh Gupta	Information and Communication Technology for Intelligent Systems (ICTIS 2017) - Volume 1. ICTIS 2017. Smart Innovation, Systems and Technologies , vol 83. Springer, Cham	2017	---	LTCE	---
Failure analysis of carbon steel roller shaft of continuous pad steam machine .	Dr Chandrababu.d, Dr Dalvi S D, Dr Satav S M, Prof Vijoykumar.	Case studies in Engineering failure analysis 9 (2017) 118-128 Elsevier	2017	---	LTCE	---
Thermal analysis of rectangular fins with different	Dr Mrs Dhanawade K H	Heat Transfer Research, Begel House,	Vol 49, Issue 7, 697-615,	2018	LTCE	---

shapes of lateral perforations by forced convection.						
Estimating Hydrogen storage characteristics of Li ANODE LiBH <sub>2</sub> using sever type apparatus.	Dr Yakkundi V.K., Prof Kalamkar Rohan.	Technosocietal 2018 (Springer cham tieup)	2018	---	LTCE	---
Reduction of customer quality cost using six sigma	Dr Yakkundi V K, Dr Teli S N.	ICIEND - 2018 (Role of IE in INDUSTRY 4.0 PARADIGM )	2018 (Tie up with Springer)	---	LTCE	---
Uncertainty of measurement- An overview	Prof Mrs Shweta Matey	ICSTEESD-2018 (Tie-up with Springer)		---	LTCE	---

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

Title of the paper	Name of the author	Title of the journal	Year of publication	h-index	Number of citations excluding self-citations	Institutional affiliation as mentioned in the publication
Novel approach to information security management of confidential and	Dr. Ravindra Duche	Journal of Fundamental and Applied Sciences	2018	-	3	LTCE

propriety information using image steganography						
Review of Pre-processing Techniques for Fundus Image Analysis	Ms. Shilpa Joshi	Biomedicine and Pharmacotherapy international journal, Elsevier	2018	2	---	---
Detection of Hard Exudates Based on Morphological Feature Extraction	Ms. Shilpa Joshi	Biomedical and Pharmacology Journal	2018	2	---	---
A Critical Review of Red Lesions Detection Algorithms using Fundus Images	Ms. Shilpa Joshi	International journal of diabetes in developing countries, Springer,	2018	2	---	---
Transient Analysis of Three-Phase High-Power VSI for hybrid electric vehicle	Mrs. Madhuri Kumari	IEEE Transactions On Power Electronics, Vol. 33, No. 4, April 2018	4 <sup>th</sup> April 2018	H -205 i -6.809	---	---
Multi Year Tariff Structure Impact On Financial Status of Electric Utility	Mr. Ninad Totre	IEEE Xplore International Conference on Innovative Technologies In Engineering 2018(ICITE18) April 11th -13th 2018 Hyderabad	11-13TH April 2018		---	---
Impact of Various Factors On Tariff During Multi Year Tariff Period	Mr. Ninad Totre	IEEE Xplore International Conference on Smart Electric Drives and Power System(ICSEDP1	12-13 th June 2018 Nagpur		---	---

		8) June 12th-13th 2018 Nagpur				
Improvement of ORPD Algorithm for Transmission loss minimisation and Voltage control using UPFC by HGAPSO approach.	Ms. Shilpa Kapse	Journal of Institution of Engineers (India); Series B, Springer Publication, <a href="http://doi.org/10.1007/S40031-018-03491-1">http://doi.org/10.1007/S40031-018-03491-1</a> , published online 14th July 2018.	14 <sup>th</sup> July 2018	h- index 6		No of downloads -14
Performance Analysis of Bipolar MG Topologies with Input Switch charging & Inductive charging method. (ICISIM) by JNEC.	Mrs. Neelam Pinjari	IEEE Digital Xplore, 5th -6th October 2017 Aurangabad	5-6 th oct 2017		---	---
Analysis & Comparative study of various charging methods implemented for SSMG .	Mrs. Neelam Pinjari	In Process for publication in Springer Proceedings, 11Th to 13th December 2017 at IIT Bombay.	11-13 <sup>th</sup> Dec 2017		---	---
Improvement of ORPD Algorithm for Transmission loss minimisation and Voltage control using UPFC by HGAPSO approach.	Ms. Shilpa Kapse	Journal of Institution of Engineers (India); Series B, Springer Publication, <a href="http://doi.org/10.1007/S40031-018-03491-1">http://doi.org/10.1007/S40031-018-03491-1</a> , published online 14th July 2018.	14 <sup>th</sup> July 2018	h- index 6	---	---
Optimal Location and sizing		IETE Journal OF Research (TIJR	20 <sup>th</sup> June 2018	H-index 18	---	---

of UPFC to solve the reactive power dispatch problem under unbalanced conditions.		1491808) Taylor & Francis accepted on 20th June 2018				
Transient Analysis of Three-Phase High-Power VSI for hybrid electric vehicle	Mrs. Madhuri Kumari	IEEE Transactions On Power Electronics, Vol. 33, No. 4, April 2018	4 <sup>th</sup> April 2018	H -205 i index - 6.809	1	LTCE
Optimal Location and sizing of UPFC to solve the reactive power dispatch problem under unbalanced conditions.		IETE Journal OF Research (TIJR 1491808) Taylor & Francis accepted on 20th June 2018	20 <sup>th</sup> June 2018	H-index 18	---	---
Automatic detection of vascular structure in retina images	Ms. Shilpa Joshi	International journal of control theory and applications (Scopus indexed)	2017	2	---	---
Color & texture feature extraction for content based image retrieval	N Jain, DSS Salankar	IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN	2014	7	18	
A SI model for social media influencer maximizati	Jyoti Sunil More	Applied computing and informatics (Elsevier)	2017(In Press)		RAIT Mumbai	2

on					
<b>3.3.7 Faculty participation in Seminars/Conferences and Symposia during the year:</b>					
No. of Faculty	International level	National level	State level	Local level	
Attended Seminars/ Workshops		18	10	18	
Presented papers	18	-	-	-	
Resource Persons	-	5	5	-	
<b>3.4 Extension Activities</b>					
<b>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</b>					
Title of the Activities	Organising unit/ agency/ collaborating agency	Number of teachers <b>co-ordinated</b> such activities	Number of students participated in such activities		
1. Tree Plantation	NMMC	04	51		
2. Voter registration	150 Airol	03	100		
3. Waste to compost	NMMC	04	50		
4. Blood donation	NMMC	02	100		
<b>3.4.2 Awards and recognition received for extension activities from Government and other recognized bodies during the year</b>					
Name of the Activity	Award/recognition	Awarding bodies	No. of Students benefited		
One Week NSS camp residential.	Grace marks	University Mumbai	30		
Two-wheeler training	Recognition for support	United way	20		
<b>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</b>					
Name of the scheme	Organising unit/ agency/ collaborating agency	Name of the activity	Number of teachers <b>coordinated</b> such activities	Number of students participated in such activities	
" स्वच्छता	NMMC	Rally	04	50	



ही सेवा "				
“Road Safety”	सारथी सुरक्षा	Rally & demonstration	04	46
<b>3.5 Collaborations: Nil</b>				
<b>3.5.1 Number of Collaborative activities for research, faculty exchange, student exchange during the year : Nil</b>				
Nature of Activity	Participant	Source of financial support	Duration	
-				
<b>3.5.2 Linkages with institutions/industries for internship, on-the-job training, project work, sharing of research facilities etc. during the year</b>				
Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration (From-To)	participant
Industry	Internship	Govardhan Consultancy, Dombivali	15/06/2017	15/07/2017
		Cisco Systems, Bandra, Mumbai	01/06/2018	20/07/2018
		Wes Tech Process Equipment India Pvt. Ltd.	11/06/2018	13/07/2018
		JSW Steel, Bandra, Mumbai	10/12/2017	24/01/2018
		Maxgen Technologies Pvt.Ltd.	01/12/2017	02/06/2018
		Maxgen Technologies Pvt.Ltd.	01/12/2017	02/06/2018
		Maxgen Technologies Pvt.Ltd.	01/12/2017	02/06/2018
		DreamZ Vision	11/06/2018	
		DreamZ Vision	11/06/2018	
		Tata Institute of Fundamental Research	06/06/2018	06/08/2018
		Trivia Software's	18/12/2018	14/01/2018
		Reliance Jio Infocom	8/06/2018	06/07/2018
		Padeco, Santacruz, Mumbai	09/06/2018	05/07/2018
		Govardhan Consultancy, Dombivali	15/06/2017	15/07/2017
		Cisco Systems, Bandra, Mumbai	01/06/2018	20/07/2018
		Wes Tech Process Equipment India Pvt.	11/06/2018	13/07/2018

		Ltd.		
Industry	Project Work	Diversified Business Solutions Private Ltd Andheri (East) Mumbai	July 2017	April 2018
		Diversified Business Solutions Private Ltd Andheri (East) Mumbai	July 2017	April 2018
		DNIT Corporation, Belapur	July 2017	April 2018
		Corporate Ladder Consultants Private Limited, Mulund West	July 2017	April 2018
		Brihan Mumbai Corporation, Parel	July 2017	April 2018
		DNIT Corporation, Belapur	July 2017	April 2018

**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 and Activities	Number of students/teachers participated under MoUs
ATS Infotech	24 <sup>th</sup> September, 2018	Value added courses for students & faculty	Initiated
Red Hat Academy	24 <sup>th</sup> November, 2017	Value added courses	01 batch of 20 students completed a course on Linux OS.
AICTE Margdarshan, with VJTI as Mentor	1 <sup>st</sup> February 2017	Mutual sharing between mentor (VJTI) & mentee institutes.	One-week sttp conducted on machine learning in September 2017.
MSEDCL	01/09/17	Demonstration of HVDC	Visits are arranged every year.
Treezec – E-Solutions Pvt. Ltd	09/08/2017	Android, Digital Marketing, Php , Dot Net Training + soft skills & Aptitude +Internship	09 students.

<b>CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES</b>						
<b>4.1 Physical Facilities</b>						
<b>4.1.1 Budget allocation, excluding salary for infrastructure augmentation during the year</b>						
Budget allocated for infrastructure augmentation			Budget utilized for infrastructure development			
13.00,00,000/_			1,30,47,225/_			
<b>4.1.2 Details of augmentation in infrastructure facilities during the year</b>						
Facilities			Existing		Newly added	
Campus area			10 600 SqM			
Class rooms			34			
Laboratories			76			
Seminar Halls			6			
Classrooms with LCD facilities						
Classrooms with Wi-Fi/ LAN						
Seminar halls with ICT facilities			6			
Video Centre						
No. of important equipment's purchased ( $\geq$ 1-0 lakh) during the current year.			34 Equipment (1,19,38,078)			
Value of the equipment purchased during the year (Rs. in Lakhs)			5,40,03,312			
Others			9 Rooms Other facility			
<b>4.2 Library as a Learning Resource</b>						
<b>4.2.1 Library is automated {Integrated Library Management System -ILMS}</b>						
Name of the ILMS software		Nature of automation (fully or partially)		Version		Year of automation
Koha		Partially		3.22.05.000		2012 - 13
<b>4.2.1 Library Services:</b>						
	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	33,939	33,939	33,939	33,939	33,939	33,939
Reference Books	101,88,607	101,88,607	101,88,607	101,88,607	101,88,607	101,88,607
e-Books	494	494	494	494	494	494
Journals	2,15,391	2,15,391	2,15,391	2,15,391	2,15,391	2,15,391
e-Journals	34,433	34,433	34,433	34,433	34,433	34,433
Digital Database	1,04,03,998	1,04,03,998	1,04,03,998	1,04,03,998	1,04,03,998	1,04,03,998
CD & Video	-	-	-	-	-	-
Library automation	-	-	-	-	-	-
Weeding (Hard & Soft)	-	-	-	-	-	-

<b>4.3 IT Infrastructure</b>									
<b>4.3.1 Technology Upgradation (overall)</b>									
	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Available bandwidth (MGBPS)	Others
Existing	627		627		627		627		627
Added	24		24		24		24		24
Total	627	627	627	627	627	627	627	90 mbps	627

#### **4.3.2 Bandwidth available of internet connection in the Institution (3 Leased line)**

AIRTEL 10 MBPS, Vodaphone 30 MBPS, TATA TELE COMMUNICATION 50 MBPS

#### **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
-----	-----

#### **4.3.4 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
-----	-----	-----	-----

#### **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	<p><b>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)</b></p> <p>Laboratories, library and computers are upgraded as per the guidelines of syllabus issued by University of Mumbai. A central purchase committee invites the application for laboratory equipment up gradation, repair and maintenance. Library invites the book and journal requisition from all the faculties for various subjects in the curriculum. A central library committee is formed to address the various</p>
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			issues and smooth functioning. Number of computers on the campus are as per the student's ratio and guidelines of AICTE. Computers, inter net service, browsing center is maintained by system administrator and IT facility maintenance in charge. Cleanliness and hygiene are maintained in class rooms and all the places through housekeeping staff. Sports complex is open to all the students. Facilities are available for various sports and is maintained by sports facility in charge. Various competitions and Annual Sports Events are organized in sports complex facility. Annual budget is allocated for the purchase, repair and maintenance and housekeeping facility. Budget is approved after scrutiny and approval of board of governance and local management committee.
52000000/-	24729138/-	7500000/-	7178643/-

### **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	-	-	-
Financial support from other sources			
a) National	GOI Scholarship EBC	Proposal Submitted to RO DTE	-
b) International		-	-

##### **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 implementation	Number of students enrolled	Agencies involved
Guest Lecture on overview of Android Development program	26/09/17	30	Mr. Anilkumar Nayak & Mr. Vikra
Workshop on Electronics Designing and PCB making.	10/8/2017-11/08/2017	28	Mr. Abhishekh Mahajan, Proto

			Electronic
Workshop on Raspberry pi and IoT	16/3/2018-17/03/2018	27	Ms.Pratiksha Pandao Eledia
Value added course on PHP	10/09/17	09	Treezec- e-solution Pvt Ltd.

**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 by Guidance for Competitive examination	Number of benefited students by Career Counselling activities	Number of students who have passed in the competitive exam	Number of students placed
2017-18	Guest Lecture on One step towards your dream job	--	30	-	10
2017-18	Guest Lecture on Career Insights	--	30	--	08
2017-18	Guest Lecture on Pursuing Higher Education	28	--	--	--
2017-18	GATE Classes	40	-	-	-
2017-18	Career Development	512	16	-	-

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

Total grievances received	No. of grievances redressed	Average number of days for grievance redressal
-	-	-

**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
Tata Communication	124	2	L&T Ltd	8	1
Allerin Tech	34	4	Neosoft	89	1
HGS	56	2	Sanmar Group	23	0

RK Edu App	83	7	Bitwise	45	1
Quinnox	56	2	Keyence	56	1
Kirloskar Chillers	33	1	Greysoft	32	0
Cosmos Aircon	33	1	Torrent Power	24	1
Stulz	33	1	Indiamart	23	3
RMS	33	1	Bulk MRO	12	2
Bonafide HVAC	33	1	Zeus Learning	67	1
HTL Aircon	33	1	WIPRO	24	4
Ozone AC	33	4	L&T Technologies	87	11
VAV AC	33	1	Nikhil Comfort	45	3
Nutect Engg	33	1	Syntel	34	4
Pentagon	33	2	Reliance Jio	56	3
Anshutech AC	33	1	DXC	34	4
Humidin	33	1	Hexaware	33	3
Bailiwick India	33	1	Techflow	12	4
Pawanputra Engg	33	1	Textronics	89	1
MSD Controls	33	2	Nexus Solution	54	0
Machin Fabrik	87	5	JC Gupta & Asso	23	4
Pepperfry	67	5	Digilife	34	2
Reliance Retail	34	17	A-eberle	27	2
Rivigo	36	16	Rein Labs	34	11
Maple Digital	33	2	Sterling & Wilson	14	1
Geekay Infotech	67	2	Aswa Insulation	16	1
V2S Solution	23	0	Clover Infotech	23	2
			CSS India	15	2
			Capgemini	65	3
			Joist's Engg	32	2

### 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
2017-18	12	LTCE	Mechanical Engineering	University of Southern California	Industrial Engineering, Mechanical Engineering
				Northern Illinois University	
				Clemson University	
				Northern Arizona University	
2017-18	11	LTCE	Computer Engineering	In Process	(299/98)
				National College of Ireland	National College of Ireland
				In Process	In Process
				RMIT University	IELTS -6.5

				Australia	
				In Process	In Process
				In Process	In Process
				In Process	GRC-300/340 Toefl-96/120
				In Process	IEITS-7/9
				In Process	In Process
				In Process	In Process
				In Process	In Process
2017-18	4	LTCE	EXTC	National College of Ireland Galway	MS
				Rochester Institute of Technology	Master of Science in Telecommunication Technology
				Northeastern University	Information System
				San Jose State University	MS
2017-18	05+03*(*-in progress)	LTCE	ELECTRONICS	1.Eillinois Institute of Technology, Chicago, US.	MS
				2.North Eastern State University, Boston, US	1.Information Technology.
				3.La trobe International University, Australia	2.Management Information System
				4.North Colorina State University	3.. Master of Engineering Management

**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	No. of Students selected/qualifying	Registration number/roll number for the exam
NET	-	-
SET	-	-
SLET	-	-
GATE	2+4+8	Nishant Patil-EC18S52072157, Supriya Mane-EC18S52072452



		Mohd. Tossif-EC18S52078182, Sondkar Pranjal-EC18S52077007 Kshitij Zope- EC18S52079150, Sayli Chavan-EC18S52059318 Bhakti Kadam- EC18S52072524, Shweta Puro-EC18S52060370 Akanksha singh- EC18S52080047, Rushabh Pathak-EC18S52061320 Patkar Shruti- EC18S52062397, Vinayak Dalvi-EC18S52058076 Shivam Shukla- EC18S52072195, Jamadar Vasim- EC18S52072095 Shomit Saxena- EC18S52079154, Divya Vispute- EC18S52080211 Amod Dalvi- EC18S52076032, Rahul Loke-EC18S52071085
GMAT		
CAT	2	
GRE	4+12	Sayli Bhutkar-2033085, Rajkumar Gosai-1801647 Ruta Mangle -553000863, Deependra Singh-2597102 Satej Rane-2860032, Tejshree Arote-3694328 Atharv Chitre-117798, Chitra Nair-0570817 Akash Tambe-2481234, Amod Nagpure-
TOFEL	2	Sayli Bhutkar-2033085, Rajkumar Gosai-1801647 Ruta Mangle -553000863, Deependra Singh-2597102 Satej Rane-2860032, Tejshree Arote-3694328 Atharv Chitre-117798, Chitra Nair-0570817 Akash Tambe-2481234, Amod Nagpure-
Civil Services		
State Government Services	2	Sanket Patil-890085720
IELTS	4	Sayli Bhutkar-193124, Isha Barot-383810 Pooja Thorat-220566, Shefali Puhan
CET MBA	4	-

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

Activity	Level	Participants
Solo Singing	Institutional	16
Solo Dancing	Institutional	13
To the Culture (Solo All style, Breaking and Rap Battle)	Institutional	24
Group Dance	University	54
Fashion Show	University	52
Open Cricket	University	College team Caption: Amay Patil LTCOE. Reached up to Semi-final
	College	Winner: S.E. EXTC Runner: B.E. EXTC
Box Cricket		Winner: B.E. COMP Runner: BE MECH
Open Football	Inter college	25 teams from Mumbai and pune suburbs Winner: Bharti Vidyapeeth, Kharghar Runner: S. M. Shetty college Powai.
	College	Winner: EXTC Runner: Mechanical

Volleyball	College	Winner: Electronics Runner-up: Mechanical
Badminton	College	<b>Singles:</b> Winner- Nageshwar Prajapati Runner up: Pratik Hosalkar <b>Doubles:</b> Winner- Manas and Pranav Runner up: Pratik and Ravi
Kabaddi	College	Winner: SE Electrical Runner up: TE Mech.
Carrom	College	Winner: Shekh (COMP) Runner up: Dinesh Harakmode (EXTC)
Table Tennis	College	Winner: Soham Gosavi (Electrical) Runner : Shravan Shinde (Mech.)
Chess	College	Winner : Anish Dabholkar (FE) Runner up: Suraj Shinde

### 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/International	Sports	Cultural	Student ID number	Name of the student
2017-18	Reached up to Semi final	University	Open Cricket	-	-	College team Aditya Ghadge and team (EXTC) LTCOE. Reached up to Semi-final
2017-18	Winner and Runner	College	Open cricket	-	-	Winner: S.E. EXTC Runner: B.E. EXTC
2017-18	Winner	College	Open Football	-	-	Winner: EXTC
2017-18	Runner-up	College	Badminton	-	-	Singles: Runner-up: Pratik Hosalkar (EXTC)
2017-18	Runner-up	College	Carrom	-	-	Runner-up: Dinesh Harakmode (EXTC)

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

Student council is constituted as per the University norms every year, through a properly set procedure. A committee consisting of the Director, Principal, Vice-Principal, Deans, Heads and previous student council

member, duly form a new council of students. The Dr. Avinash Sarode, Dean of Student affairs is looking after all the process of the student council.

### **Selection Procedure**

The set criteria for the selection of council is followed based on their academics and managing abilities. Students are interviewed by the committee, to select the student council members. The Student council members for the academic year 2017-18 are as follows:

### **Student Council consists of**

General Secretary, Cultural Secretary, Technical Secretary, Sports Secretary, Ladies Representative

### **Activities of Student Council**

The activities of the student council are diverse in nature; comprising of the Sports, Cultural and Technical programs held during the year. Wide variety of sports activities are supported, for participation at the Inter-college, university and state level competitions.

### **Representation of students on academic & administrative bodies/committees of the institution.**

#### **Computer Society of India (CSI)**

CSI is a professional body for the computer and IT, is a largest body in the nation and is also linked with the IEEE Society. The Institutional membership, since 2011 encourages various activities such as workshops, seminars, CSI conducted National and International Conferences and Industry Fair every year. Student Chapter with a large number of members conduct several programs like workshops, technical events and projects. There are more than 100 student members, actively participating in the CSI activities.

**Computer Engineering Students Association (CESA)** is departmental committee which provides the students and teachers of computer department various curriculum as well as extracurricular events and opportunities. CESA started its one of the active association students since 2007. It also enhances their technical skills through guest lectures, seminars, workshops etc. The vision of CESA was acknowledged by our Director, Principal, Vice-Principal and H.O.D in their speeches. The biggest hit of the CESA was “**EXCEPTIS**”, DEPARTMENTAL FEST which is executed in the year 2017-18. It gave all the students and faculties a platform to showcase their talent. CESA has also started with departmental News Bulletin of computer dept. which later explored into computer Departmental Magazine called **EXCELSIOR**

#### **ISHRAE**

Indian Society of Heating Refrigeration Engineer, Local Chapter was formed in 2007 under the guidance of Dr. Kavita Dhanawade. Under ISHRAE Industrial visit have been conducted & student get the opportunity to apply for funding for their project (only for ISHRAE member). Last year JOB JUNCTION was conducted at LTCE, in which numerous jobs offers were given to final year students.

#### **SAE Club**

TEAM TT RACING is the student design team from LTCE under the guidance of Prof. Ajay Kashikar, which functions under the SAE LTCE COLLEGIATE CLUB and represents the institute at National and International Off-road Motorsport competitions.

#### **AeroCLUB LTCE**

AeroCLUB LTCE is student venture of the students of Lokmanya Tilak college of engineering. AeroCLUB LTCE is a society of engineering students who design, fabricate and test RC (Remote Control) Aircraft and Buggies.

#### **MESA**

MESA (Mechanical Engineering Students Association) of LTCE is one of the very active association of student formed in 2007, which is always keeping the student and faculty updated by conducting various seminars, workshops and lectures from industrial experts in the college premises.

#### **SCEE**

Student Council of Electrical Engineering (SCEE) provides platform to the students to show their talent in organizing and participating in various activities. SCEE provides a platform to students to add some more positive angles to their personalities so that they can become better human beings. It also enhances their technical skills through guest lectures, seminars and workshops from experts. SCEE always have been focused on offering many opportunities for academic and professional development, both individually and collectively to the students of the department.

#### **EESA**

Electronics Department has a student activity forum(Electronics Engineers Students Association) which has been formed with the view to promote various activities like guest lectures, seminars and workshops from experts. EESA provides a platform for the students to showcase their technical talent thereby enhancing their overall personality

**Electronics and telecommunication department** has IETE ISF and ETSA committee.

#### **IETE ISF**

IETE ISF organizes various event for the students. It provides the platform to explore their idea & got the chance to interact & boost their confidence. We make them introduce to the modern technologies as well as the various resource person & experts in the field of engineering. Every year students of IETE ISF celebrates TELEIOS & Founder's Day (1<sup>st</sup> Feb).

#### **ETSA**

Electronics & Telecommunication Engg Students Association (ETSA) is our departmental committee which contribute in conducting various technical & non-technical events in the department. Student working under ETSA conducts various competition & organizes department level program like Teacher's day, farewell to final year various sports activities etc.

#### **ELC**

English literature club (ELC) of LTCE promotes activities to enhance Communication Skills. Club motivates students to improve and practice their English skills which are necessary for career development in engineering world.

#### **Women's Development Cell**

WDC, Lokmanya Tilak College of Engineering has a group of passionate feminist stalwarts, out with a gender lens. WDC has earned the reputation of being liberal space. WDC finds its true power in initiating conversations on pressing social issues, student's grievances, to disciplinary framework for students.

#### **NSS**

NSS unit of college is mainly involved into activities which will enhance students' social skills and make them perfect person to live in the society. NSS normally conducts different social activities like blood donation camp, Tree plantation camp and book donation camps.

### **5.3 Alumni Engagement**

**5.3.1 Whether the institution has registered Alumni Association? Yes/No, if yes give details (maximum 500 words): Yes.**

ALTEA [Association of Lokmanya Tilak College of Engg. Alumni (Reg No. - MAH/1032/08 Thane)] is established in the year 2008 for maintaining liaison with Alumni all over the world and to involve them with the development of the Institute. One faculty coordinator along with dept coordinators works for ALTEA cell. The foremost responsibilities Of The ALTEA:

- Create the list of the alumni of respective department right from the first batch.
- Plan, implement and promote alumni programs that support the ALTEA strategic Plan
- Ensure accurate and complete alumni database records including their contact, biographical and career information
- Establish and build relationships with a wide range of alumni as well as local, regional, National and International alumni chapter
- Educate graduating students about alumni benefits and engage them in programs
- Partner with various offices of the Institute to spearhead the introduction of alumni involvement in the growth and continued leadership of the college.
- Collaborate closely with Industries and enable increased support from alumni, and provide platforms and programs for such support

**5.3.2 No. of enrolled Alumni: 1793 (2017-18)**

**5.3.3 Alumni contribution during the year (in Rupees): -**

**5.3.4 Meetings/activities organized by Alumni Association:**

**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)**

(I) Our institute has encouraged & facilitates Industry interaction through MOUs. These MOUs are brought by individual departments as per the field of their specializations. Here the departmental heads are given freedom to choose & sign MOUs which are for mutual benefit. The management supports such initiatives. The benefits accrued from this activity are projects, internships, R & D, consultancy, value added courses, incubation centres, aptitude coaching and so on. The MOUs are signed with premier educational institute or with eminent Industry. Last year we signed MOU with VJTI under AICTE, Marg darshan scheme, wherein we are one of the mentee institute. The MOU enables mutual sharing of resources for students and faculty. We have conducted STTP under this banner on the topic of machine learning, which was open to faculty of Mumbai, Pune & Nashik. We have also signed MOU with Red Hat Technologies which enable the students to learn different technologies. The MOU with Siemens Ltd is in process for incubation centre. The management is facilitating these activities by supporting in terms of subletting of infrastructure & also financially if required. The purchases related to lab equipment is handled by Heads directly in consultation with our directors based at Nagpur.

(II) One more decentralized activity is Project Based Learning. Our management encourages and supports PBL. Our departmental heads are given freedom for carrying out this activity. Our Mechanical Engineering department students are enthusiastic about SAE car building competition wherein a group of interdisciplinary branches participate. This is a very prestigious competition & a learning platform for students. Our management supports financially every year for this event. Last year our students participated in this event at Maryland, USA. The management supported this activity by sanctioning car transport charges to & fro.

**6.1.2 Does the institution have a Management Information System (MIS)?****Yes/No/Partial: Partial**

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):****❖ Curriculum Development:**

The institute is affiliated to the University of Mumbai & therefore follows the syllabus designed by the University. However, the University representatives of our institute & other faculty members give inputs in the syllabus revision process. The revision takes place every 3 years. In addition to the syllabus we believe in holistic development of the students. We have formed IQAC for the purpose & also take suggestions from Industry experts.

**❖ Teaching and Learning:**

We are following OBE methodologies & soon will be applying for NBA accreditation under Tier-II group institutions. To make learning more effective we have choice-based credit and grading system of examinations. We have devised new teaching pedagogies for different category of students. We ensure a perfect blend of classroom teaching & ICT enabled teaching so that the students are motivated all the times. We ensure state of the art lab facilities, Computational facilities, Library & also competent faculty.

**❖ Examination and Evaluation:**

We follow University examination scheme of 80:20 wherein 80 % weightage is given to end semester exam & 20 % weightage is given to internal test. This scheme of continuous assessment ensures proper learning & outcomes. The University scheme provides us with various heads of evaluation such as assignments, presentations, term work, practical etc. These heads of exams and evaluation enables formative assessment.

We also calculate course outcomes with direct & indirect assessment methods to ensure effective learning.

❖ **Research and Development:**

The Institute has research centre in Mechanical & Computer Engineering affiliated to the University of Mumbai. Through the research centre 3 candidates have already passed out in Mechanical Engg. Further 8 candidates are pursuing Ph D in Mechanical & 8 candidates in Computer Engineering. The criteria for completing Ph.D. In Mumbai University is minimum 3 publications in reputed peer reviewed journals. Our faculty invariably gets minor research grant from the University of Mumbai every year. We have 7 patents from our faculty. Our faculty has published few books from reputed publishing houses like Wiley , Lambert etc.

❖ **Library, ICT and Physical Infrastructure / Instrumentation:**

The Institute has library space in excess of AICTE norms with adequate seating capacity of about 200. We have about 40,000 volumes & 10000 + titles. In addition, we are equipped with 10000 + e-books & also multimedia room. We also subscribe Elsevier, IEEE online journals. We have 8 ICT enabled classrooms, 5 seminar halls with state-of-the-art PA systems. We have 2.63 acres of land & 22000 sq. ft built up area which is in excess of norms as per AICTE. We Have 4 seminar halls with 90 seats & 1 auditorium with 300 seats. The campus has 650 + computers all LAN connected. The campus is wi-fi connected. The labs are state of the art with all modern equipment's. There are research labs in Mechanical and Computer Engg dept.

❖ **Human Resource Management:**

Teaching faculty requirement is decided as per AICTE student faculty ratio. The cadre ratio is also as per AICTE norms. The nonteaching staff requirement is at the discretion of the management to meet the needs of departments.

❖ **Industry Interaction / Collaboration:**

The institute has constituted IQAC Cell & it has Industry representatives for suggestions with regards to curriculum development & other academic activities. Our training & placement cell continuously strives for networking with industries for placements & internships. The Institute has signed MOU with many reputed companies like Red Hat Academy, Microsoft, Synergy consultants, Geometric software & MOU with Siemens is in process. These MOU'S are signed for mutual benefits, mainly for value added courses, Certification courses, internships, incubation centres & projects.

❖ **Admission of Students:**

Our admissions are done strictly as per DTE, Govt of Maharashtra mandate as per CET / JEE scores. The institute comes under linguistic minority category (Hindi Speaking Minority) therefore 51 % students allotted belong to minority. The rest of the students come from diverse backgrounds in CAP allotment process of DTE, Maharashtra.

**6.2.2: Implementation of e-governance in areas of operations: The payment of salary to the faculty and staff is done through electronic clearance & deposited in the bank. The payment of student fees is also received through NEFT/RTGS mandates. Payment to affiliating bodies & other stake holders is also done online through portals.**

❖ **Planning and Development:** Planning & Development is done at Sanstha level. The institute is planning to go for autonomy through NAAC-NBA-Permanent Affiliation processes. To achieve these benchmarks the management is giving all possible inputs to improve teaching learning process, improve placements etc. The institute has also planned for NIRF / ISO / QS rankings in the near future.

❖ **Administration:** The institute has a sound administration which percolates from our Sanstha at Nagpur. The delegation of work / orders is from directors at Nagpur to Principals & subsequently to Heads of units.

❖ **Finance and Accounts:** The institute has a chief finance & accounts officer who keeps track of expenses. The department is responsible for receiving student fees & disbursements of funds as & when required. The annual record of audit & balance sheet is properly maintained.

❖ **Student Admission and Support:** The institute strictly does admissions as per DTE, Govt of Maharashtra mandate and participates in CAP process as mentioned earlier. As the students come

from diverse backgrounds they are eligible for scholarships & free ships as per govt rules. The institute supports the students throughout the course duration through grooming them with aptitude / soft skills, supporting them financially for projects, paper publications, supporting them for sports & other cultural activities. The students of BE are also given GATE coaching by our own faculty at subsidized fees.

- ❖ Examination: The examination scheme comes under the University purview. Currently the University offers choice-based credit-based grading system of examination, wherein the students have choice of department level & institute level electives during third & final year. The BE course is of 4 years duration with 8 semesters. Other exam heads like term work, practical, oral, internal tests are as per the University scheme.

### 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
2018	Prof Ajay Kashikar (Mech)	Participated in Formula SAE competition at Maryland, USA as faculty advisor.	SAE	Travelling Assistance of Rs 1.25 lakh by management.

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

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	Dates (from-to)	No. of participants (Teaching staff)	No. of participants (Non-teaching staff)
-	-	-	-	-	-

#### 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	Date and Duration (from – to)
FDP on “Foundation Program in ICT for Education”	4	8 <sup>th</sup> March to 12 <sup>th</sup> April 2018
FDP on “Pedagogy for Online and Blended Teaching-Learning Process	4	3 <sup>rd</sup> May to 18 <sup>th</sup> June 2018
One Week STTP on “IOT, Raspberry Pi and Python Programming”	17	2-7 July 2018
Two-day FDP on " Machine	8	14-15 September 2017



Learning and its Applications"		
Practical Approach and Hands on Training for Hadoop – Big Data	13	9-10 January 2018
One Week STTP on “Hands on Python Training”	2	1-5 January 2018
AICTE-ISTE sponsored STTP on “Open Data Science with IOT	2	25-30 June 2018

#### 6.3.4 Faculty and Staff recruitment (no. for permanent/fulltime recruitment):

Teaching		Non-teaching	
Permanent	Fulltime	Permanent	Fulltime/temporary
106 (Permanent)	106	49 (Permanent)	49
26 (Adhoc)	26	32 (Adhoc)	32

#### 6.3.5 Welfare schemes for

Teaching	Leave, PF, Gratuity
Non-teaching	Leave, PF, Gratuity
Students	Travel concession, Projects finance, Insurance

### 6.4 Financial Management and Resource Mobilization

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

The institute conducts internal audit every year during the month of march. This is done by a professional chartered accountant.

External audit is done by visiting committees like AICTE, DTE & LIC of University of Mumbai. The University of Mumbai has appointed third party for the purpose in the past.

#### 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/ Grants received in Rs.	Purpose
(ii) The management of LTJSS	Rs 3,80,000 /-	LTJSS supported the participation in car building competition i.e. Formula SAE, which was held at Maryland, USA during April 2018 by paying the transport charges to & fro. A group of 15 students attended the event.
Dhanvallabh Trust	Rs 1.25 lakh	
Sane bros	Rs 1.10 lakh	
Gulf oil	Rs 70,000/-	
Math bros	Rs 60,000/-	

Scantech laser	Rs 20,000/-	Car building events
Tikitar	15,000/-	
Leonine Engg	Rs 20,000/-	
Ultra lube	Rs 25,000/-	
Dosti builder	Rs 25,000/-	

**Total corpus fund generated** : 8.5 lakh

### 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	Dean Academics of Sanstha & team of Professors of Sanstha.
Administrative	-----	-----	Yes	Director of Sanstha, CAFO of Sanstha.

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

The parent-teacher meeting is conducted every year during Induction programme of FE. Parent meet is also organized for informing parents & counselling.

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

Nil

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

- (i) Gearing up for Permanent affiliation
- (ii) Applying for NBA accreditation in near future

#### 6.5.5

- a. Submission of Data for AISHE portal: (Yes)
- b. Participation in NIRF: (No)
- c. ISO Certification : (No)
- d. NBA or any other quality audit : (No)

#### 6.5.6 Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting activity	Duration (from-----to-- ----)	Number of participants
2018	Aptitude & soft skills coaching to students of final year	27 <sup>th</sup> August to 1 <sup>st</sup> September 2018	6 days	125
2017	Internships & mock interview	During the year	Internships during vacations	250
2017	Probationer's review	01/11/17	2 days	30

**CRITERIONVII – 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-to)	Participants	
		Female	Male
	(Full Day)		
Road safety program	5 March 2018	65	
Self defence program	5 March 2018	50	
Skin and dental care	6 March 2018	95	
Awareness on breast cancer	8 March 2018	120	00

**7.1.2 Environmental Consciousness and Sustainability/Alternate Energy initiatives such as: Percentage of power requirement of the College met by the renewable energy sources Quotations have been received from various suppliers and submitted to the Management**

Title of the Activity	Organising unit/ agency/ collaborating agency	Number of teachers co-ordinated such activities	Number of students participated in activities
Tree plantation	NSS unit	04	50
Blood donation camp	NSS unit and local Hospital	05	40
Voter ID registration desk	NSS unit	02	20
Seminar on Traffic rule safety	NSS and United way NGO	05	46
Road safety awareness seminar	Sarathi suraksha and NSS unit	05	46
Road safety awareness Rally	NSS unit	05	46
Inter college Poster Competition on Road safety	NSS unit	05	60
Swachh bharaat awareness rally and skit in adopted area	NSS Unit	05	46
Special camp	NSS	5	32

**7.1.3 Differently abled (Divyangjan) friendliness**

Items Facilities	Yes/No	No. of Beneficiaries
Physical facilities	Yes	NA
Provision for lift	Yes	NA
Ramp/ Rails	Yes	NA
Braille Software/facilities	NA	NA
Rest Rooms	Yes	NA
Scribes for examination	NA	NA
Special skill development for differently abled students	NA	NA
Any other similar facility	NA	NA

**7.1.4 Inclusion and Situatedness**

Enlist most important initiatives taken to address locational advantages and disadvantages during the year

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date and duration of the initiative	Name of the initiative	Issues addressed	Number of participants: students, staff
Planned in October 2018 and April 2019						

**7.1.5 Human Values and Professional Ethics**

Code of conduct (handbooks) for various stakeholders

Title	Date of Publication	Follow up (maximum 100 words)
NA	NA	NA

**7.1.6 Activities conducted for promotion of universal Values and Ethics**

Activity	Duration (from-----to-----)	Number of participants
Heartfulness relaxation and Meditation		

### 7.1.7 Initiatives taken by the institution to make the campus eco friendly:

- (i) Tree plantation
- (ii) Segregation of waste
- (iii) Rain water harvesting
- (iv) Waste to compost
- (v) Energy audit

### 7.2 : Best Practices :

- (i) Emphasis on formative assesment
- (ii) Encouragement & support for Project based Learning
- (iii) Planning for permanent affiliation of the University of Mumbai
- (iv) Choice based credit & grading system of examinations offered by University of Mumbai
- (v) NBA accreditation is on the anvil.
- (vi) Institute has its own ERP system
- (vii) Fairly good Industry interaction through MOU'S of corporates.

### 8.0 Future Plans of action for next academic year

As far as short term goals are considered we are planning to apply for additional UG courses as available in the perspective plan of the University of Mumbai . We are also planning to add few interdisciplinay PG courses . We have also applied for additional seats of Ph.D. In Mechanical Engg for which we may get approval. Presently we have 15 seats & we have applied for 25 more seats. Presently we have research centre to conduct Ph.D. In Mechanical & Computer Engg. We are planning to create research atmosphere in the institute. Therefore lot of initiatives to improve Industry interaction are being take. Our T & P cell is roping in more and more industries for mutual benefits . The benefits in the form of placements , internships , live projects , R & D projects and incubation centres are expected . We already have collegiate clubs of professional bodies like ISHRAE, CSI,IETE etc. We intend to strengthen the ties. We are following outcome based education methodology for better learning outcomes & placements. We also ensure holistic grooming of students through employability enhancement schemes consisting of aptitude , english , communication , foreign language & core competence.

In the long run we aim to be become institute with excellence having full fledged research facilities. We will go step by step towards autonomy .

8. Name Dr S.K.Shinde

Name Dr V.K.Yakkundi

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Signature of the Coordinator, IQAC

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Signature of the Chairperson, IQAC