



Yearly Status Report - 2018-2019

Part A				
Data of the Institution				
1. Name of the Institution		LOKMANYA TILAK COLLEGE OF ENGINEERING		
Name of the head of the Institution		Vivek K Sunnapwar		
Designation		Principal		
Does the Institution function from own campus		Yes		
Phone no/Alternate Phone no.		02227541005		
Mobile no.		9821221952		
Registered Email		naac.ltce@gmail.com		
Alternate Email		principal.ltce@gmail.com		
Address		Sector 4, Vikas Nagar, Koparkhairane		
City/Town		Navi Mumbai		
State/UT		Maharashtra		
Pincode		400709		
2. Institutional Status				
Affiliated / Constituent		Affiliated		
Type of Institution		Co-education		
Location		Urban		
Financial Status		private		
Name of the IQAC co-ordinator/Director		Dr Subhash K Shinde		
Phone no/Alternate Phone no.		02227541006		
Mobile no.		9594170066		
Registered Email		naac.ltce@gmail.com		
Alternate Email		principal.ltce@gmail.com		
3. Website Address				
Web-link of the AQAR: (Previous Academic Year)		http://ltce.in/assets/MHCOGN_27187_LTCE_AQAR_OCT_2018.pdf		
4. Whether Academic Calendar prepared during the year		Yes		
if yes, whether it is uploaded in the institutional website: Weblink :		http://ltce.in/assets/Acdemic_Calender_2018-19_for_Even_Semster.pdf		
5. Accrediation Details				
Cycle	Grade	CGPA	Year of Accrediation	Validity

				Period From	Period To
1	B++	2.95	2017	30-Sep-2017	29-Sep-2022

6. Date of Establishment of IQAC 13-Jul-2016

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
Improved Teaching Learning through OBE approach.	02-Jul-2018 12	110
Industry interaction for internships & placements	02-Jul-2018 12	250
Professional activities with bodies like ISHRAE, SAE, IEEE, IETE for projects	02-Jul-2018 12	300
Introduction of online teaching learning (NPTEL)	02-Jul-2018 12	125

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8. Provide the list of Special Status conferred 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
No Data Entered/Not Applicable!!!				

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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

[View File](#)

10. Number of IQAC meetings held during the year :

2

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

[View File](#)

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)

Good faculty ratio Adequate computational & Library resources NPTEL chapter Project based learning Improved results

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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

Plan of Action	Achievements/Outcomes
To follow best practices & benchmarks for quality in education. Conduction of workshops , sttp's , conference . Conducting of activities under the banners of professional bodies.	Followed AICTE norms for faculty , infrastructure , library , computational facilities. Got NAAC accreditation & preparing for NBA. Conducted National Conference. Conducted various student centric activities under CSI , SAE , ISHRAE , IEEE IETE.

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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body

LTJSS

Meeting Date

31-May-2019

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?

No

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2019

Date of Submission

30-May-2019

17. Does the Institution have Management Information System ?

Yes

If yes, give a brief description and a list of modules currently operational (maximum 500 words)

ERP The institute has developed an in house erp which caters to the whole sanstha. The erp has several admin and academic modules, The erp has biometric attendance linked to it for making salary. There are other modules like faculty profile , leave application , student attendance , teaching plan etc. The faculty profiles are checked by the sanstha HR dept time to time for increments promotions. Students also get unique id through this erp. All service requests like maintenance , IT hardware are routed through erp. All details of student attendance , fees paid etc are available on erp. each year the student has to route admission application through erp. The erp keeps records of student academics and fees paid.

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

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employability/entrepreneurship	Skill Development
Employability Enhancement Program		01/07/2018	14	yes	yes

1.2 - Academic Flexibility

1.2.1 - New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE		09/07/2018

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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	Mechanical Engineering	09/07/2018
BE	Computer Engineering	09/07/2018
BE	Electronics & Telecommunication Engineering	09/07/2018
BE	Electrical Engineering	09/07/2018
BE	Electronics Engineering	09/07/2018

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

	Certificate	Diploma Course
Number of Students	119	0

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
Industry expectation from fresh engineers	19/10/2018	50
Refrigeration Air conditioning	11/10/2018	45
Design of 3phase Induction motor	04/10/2018	53
CCNA course by Tele Networks	07/01/2019	98
Microsoft Technology associate	14/03/2019	23
Current Technologies in Machine Learning	13/08/2018	140
Softskill Training Program	08/10/2018	150
Aptitude Training Program	01/09/2018	55
Internet of Things	28/09/2018	30
National Level Drone Development Internship	07/07/2018	30
Internship on Formula Race Car Design Development	05/01/2019	110
National level Internship on Hybrid Electric Vehicle	07/07/2019	150
Internship on Hybrid Electric Vehicles	07/01/2019	70

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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	Mechanical	103
BE	Electronics & Telecommunication	43
BE	Computer Engineering	7
BE	Electrical Engineering	53

BE	Electronics Engineering	18
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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 form/formats are designed for the stakeholders. This includes faculty feedback, alumina feedback, student feedback, course exit survey, etc. 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. 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 fillup 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. 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 5point 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 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	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BE	Mechanical	180	186	138
ME	Mechanical	18	5	3
PhD or DPhil	Mechanical	15	0	0
BE	Computer	120	126	121
ME	Computer	18	3	3
BE	Electrical	60	63	42
BE	Electronics & Telecommunication	120	123	79
BE	Electronics	60	18	11

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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
2018	2246	6	131	5	136

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	Number of smart classrooms	E-resources and techniques used
136	80	3	10	4	3

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, students 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

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2246	136	1:17

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
136	136	0	136	21

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. V.K.Yakkundi	Dean	Community Leader Award by CASI Global.
2019	Dr. Prerana Shrivastava	Assistant Professor	Best Researcher Award by International Organization of Scientific Research and Development.
2018	Dr. Sheeba P.S.	Associate Professor	Fellow IETE
2019	Dr. Ravindra Duche	Professor	Copyright on "Creative assignments for Engineering and Technology students" (Completed with no. L77526/2018)
2019	Dr. Rajeshree rokade	Assistant Professor	Copyright on "Stochastic Analysis using Image Processing for Scripts/ Index" (In process with no. 95801)
2019	Dr. Shilpa Kapse	Assistant Professor	Best Project Award in National level project competition Tantragyan 2K19, LTCE
2019	Dr S.K.Shinde	Vice Principal	Community leader award by CASI Global

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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
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BE	ETRX	VIII	24/05/2019	12/07/2019
BE	ETRX	VII	14/12/2018	07/03/2019
BE	ETRX	VI	03/06/2019	29/06/2019
BE	ETRX	V	12/12/2018	05/02/2019
BE	ETRX	IV	04/06/2019	29/06/2019
BE	ETRX	III	17/12/2018	05/02/2019
BE	EXTC	VIII	24/05/2019	08/07/2019
BE	EXTC	VII	14/12/2018	07/03/2019
BE	EXTC	VI	10/06/2019	24/07/2019
BE	EXTC	V	12/12/2018	21/01/2019
BE	EXTC	IV	04/06/2019	24/07/2019
BE	EXTC	III	17/12/2018	21/01/2019
BE	COMP	VIII	24/05/2019	05/07/2019
BE	COMP	VII	04/12/2018	20/02/2019
BE	COMP	VI	10/06/2019	16/07/2019
BE	COMP	V	12/12/2018	05/02/2019
BE	COMP	IV	04/06/2019	16/07/2019
BE	COMP	III	17/12/2018	05/02/2019
BE	Mech	VIII	24/05/2019	12/07/2019
BE	Mech	VII	26/11/2018	02/03/2019
BE	Mech	VI	03/06/2019	26/07/2019
BE	Mech	V	12/12/2018	28/01/2019
BE	Mech	IV	29/05/2019	26/07/2019
BE	Mech	III	21/12/2018	28/01/2019
BE	Elect	VIII	05/06/2019	05/07/2019
BE	Elect	VI	10/06/2019	03/08/2019
BE	Elect	IV	04/06/2019	03/08/2019
BE	Elect	VII	26/11/2018	25/01/2019
BE	Elect	V	12/12/2018	20/02/2019
BE	Elect	III	21/12/2018	20/02/2019
BE	FY	I	27/12/2018	11/03/2019
BE	FY	II	07/06/2019	19/07/2019

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

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, selflearning initiative, conceptual understanding, punctuality and attendance.

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

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 extracurricular 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.

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)

<https://www.ltce.in/>

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
Mech	BE	Mechanical Engineering	271	262	95.97
Comp	BE	Computer Engineering	140	136	97.14
EXTC	BE	Electronics & Telecommunication Engineering	111	108	97.3
Elect	BE	Electrical Engineering	70	54	77.2
ETRX	BE	Electronics Engineering	26	20	76.92

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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)

https://docs.google.com/spreadsheets/d/loVbDKBRqozAVRSBVBpdXK36_zvwDw0NGS9ZyOG130IM/edit?usp=sharing

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
Minor Projects	365	University of Mumbai	3.55	3.55
Industry sponsored Projects	365	ISHRAE	0.45	0.45
Industry sponsored Projects	180	Dhan Vallabh Trust	1.5	1.5

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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
Python	EXTC	11/08/2018
Antenas	EXTC	18/03/2019
IoT	EXTC	14/03/2019
VLSI	EXTC	11/01/2019
NASA Hackathon	EXTC	21/01/2019
Technical Ppaer Writing	Electrical	20/02/2019
Orientation on DCE	EXTC	10/07/2019
Expert talk on I.C.Engines design development	Mechanical	11/09/2018
Expert talk on Patents IPR	Mechanical	28/08/2019
Google Event	Computer	04/09/2018

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
NBA paper presented in World Summit	Dr. Ravindra Duche	WOSA, NBA	10/09/2018	Teacher, Conference Paper
1st prize in National level Conference2019	1. Amey Bugade	LTCE , Koparkhairane	16/03/2019	StudentConference Paper
3rd prize in National level Conference2019	Atul Kubade	LTCE , Koparkhairane	16/03/2019	StudentConference paper
1st PrizeProject Competetion	Amey Bugade	LTCE , Koparkhairane	15/03/2019	EXTC DeptStudent
1st PrizeProject Competetion	Rohan Tipnis	LTCE , Koparkhairane	15/03/2019	EXTC Dept Student
2nd PrizeProject Competetion	1. Priyanka Pawar	LTCE , Koparkhairane	15/03/2019	EXTC Dept Student
2nd PrizeProject Competetion	1. Rutuja Salvi	LTCE , Koparkhairane	15/03/2019	EXTC Deptstudent
3rd PrizeProject Competetion	Atul Kubade	LTCE , Koparkhairane	15/03/2019	EXTC DeptStudent
Innovative Poster	1. Jyoti Chudhary	LTCE , Koparkhairane	15/03/2019	EXTC DeptStudent
Rsearch Contribution	1. Tushith Shetty	LTCE , koparkhairane	15/03/2019	EXTC DeptStudent
Best Concept	1. Swapnil Kumbhar	LTCE , Koparkhairane	15/03/2019	EXTC DeptStudent
Best Concept	1. Ankita Mhatre	LTCE , Koparkhairane	15/03/2019	EXTC DeptStudent
Best Paper	1. Richy Koshi 2. Ankit Gupta 3. Dipali Doke 4.Gautam Doke	DMCE , Airoli	02/02/2019	Electrical Engg
Best Project	1. Richy Koshi 2. Ankit Gupta 3. Dipali Doke 4. Gautam Doke	LTCE , Koparkhairane	27/03/2019	Electrical Engg

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3.2.3 - No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
No Data Entered/Not Applicable !!!					

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3.3 - Research Publications and Awards

3.3.1 - Incentive to the teachers who receive recognition/awards

State	National	International
0	0	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
Mech Computer	0

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	EXTC	13	2.5
International	Computer	1	1.85
National	Computer	3	1.5
International	Computer	20	1.5
International	Mechanical	16	1.5
International	Electrical	13	1.5
International	Electronics	3	1.85

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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
EXTC	19

ETRX

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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
Thermal Analysis of Rectangular Fins with Different Shapes of Lateral Perforations by Forced Convection	Dr V.K.Sunnapwar	Journal of Heat Transfer	2018	16	ltce	1
Fuzzy analytic hierarchy process (FAHP) for green supplier selection in Indian Industries	Dr V.K.Sunnapwar	Proceedings of Int conf on Intelligent mfg	2019	16	ltce	4
Task scheduling and resource allocation in cloud computing using a heuristic approach	Dr S.K.Shinde	Journal of cloud computing	2018	7	ltce	19
Most Persistent Feature Selection Method for Opinion Mining of Social Media Reviews	Dr S.K.Shinde	Book on Information and communication Technologies for competitive strategies by Springer.	2019	7	LTCE	1
ITCA, an IDS and Trust Solution Collaborated with ACK Based Approach to Mitigate Network Layer Attack on MANET Routing	Dr S.K.Shinde	Journal of wireless personal communications	2019	7	ltce	1
Experimental Performance and Analysis of Domestic Refrigeration System Using NanoRefrigerants	Dr Kavita Dhanawade	Proceedings of international conf on Intelligent mfg	2019	4	ltce	1
A proposed solar piezo hybrid charging system	Dr. Sheeba P.S.	Lecture notes on Data Engineering and Communication Technologies	2018	3	LTCE	0
Mathematical morphology for microaneurysm detection in fundus images	Shilpa Joshi	European Journal of Ophthalmology : SAGE Journal	2019	1	YCCE	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
Fuzzy analytic hierarchy process (FAHP) for green supplier selection in Indian Industries	Dr V.K.Sunnapwar	Proceeding of int conf on int mfg automation	2019	12	4	ltce
Thermal Analysis of Rectangular Fins with Different Shapes of Lateral Perforations by Forced Convection	Dr V.K.Sunnapwar	Heat Transfer Research	2018	12	1	ltce
Task scheduling and resource allocation in cloud computing using a heuristic approach	Dr S.K.Shinde	Journal of cloud computing	2018	7	19	ltce
ITCA, an IDS and Trust	Dr S.K.Shinde	Journal of wireless	2019	7	1	ltce

Solution Collaborated with ACK Based Approach to Mitigate Network Layer Attack on MANET Routing		personal communications				
Most Persistent Feature Selection Method for Opinion Mining of Social Media Reviews	Dr S.K.Shinde	Book on information communication strategies for competitive strategies by Springer	2019	7	1	ltce
Reduction of Supplier Quality Cost using Six Sigma	Dr V.K.Yakkundi	Int conf on Role of Industrial Engg with context to Industry 4.0	2018	2	2	ltce
A proposed solar piezo hybrid charging system	Dr. Sheeba P.S.	Lecture notes on Data Engineering and Communication Technologies	2018	4	0	LTCE

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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	0	16	0	0
Presented papers	18	1	0	0
Resource persons	1	4	2	0

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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
Orientation	NSS Cell	3	50
Waste to Compost Swachh Bharat Abhiyan	NSS Cell	3	20
Digital India Awareness	NSS Cell of Ratnam College	3	50
Tree Plantation	NSS Cell	3	50
Gandhi Jayanti Celebration	NSS Cell	3	40
Blood Donation Camp	NSS Cell	3	110
NSS Publicity Week	NSS Cell	3	40
Yoga for Youth	NSS Cell	3	35
Bhajan Sandhya	NSS Cell	3	25
National Youth Day	NSS Cell	3	15
Residential Camp	NSS Cell	3	25
Disaster Management Seminar	NSS Cell	3	40

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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
CSR SUSTAINABILITY Certification	Global Student Associate	CASI GLOBAL , new york	4

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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 activites	Number of students participated in such activites
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NSS Publicity Week	NSS Cell	NSS Publicity Week. Awareness about Swachh hand washing disease prevention	3	39
Residential Camp	NSS Cell	Village Survey (work was to be done)	3	25

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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
No Data Entered/Not Applicable !!!			

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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
MARGDARSHAN OF AICTE (MENTOR MENTEE)	MARGDARSHAN	VJTIMENTOR	01/02/2018	31/12/2019	15

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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
A oracle workforce Development partner A MicrosoftAEP	01/07/2019	Workshop, seminars, demos	23
SAGE Automation, Thane	15/02/2019	Training program, Industrial visit, Project guidance, workshop, Seminar	110
Training program, Industrial visit, Project guidance, workshop, Seminar	04/02/2019	Training program, seminar, project guidance	57
BSNL, Yeur	24/07/2019	Project guidance and Seminar	14

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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
105.5	294.8

4.1.2 - Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Seminar Halls	Existing
Classrooms with LCD facilities	Newly Added
Seminar halls with ICT facilities	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Others	Existing
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing

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 patially)	Version	Year of automation
KOHA	Partially	3.22.05.000	2014

4.2.2 - Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	34506	10579182	0	0	34506	10579182
e-Books	10141	1888620	0	0	10141	1888620
Journals	73	212686	0	0	73	212686
e-Journals	2388	1303161	0	0	2388	1303161
CD & Video	800	10000	0	0	800	10000
Library Automation	1	0	0	0	1	0
Others (specify)	1	130672	0	0	1	130672

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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
No Data Entered/Not Applicable !!!			

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4.3 - IT Infrastructure

4.3.1 - Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MGBPS)	Others
Existing	649	26	3	26	2	1	5	160	0
Added	0	0	0	0	0	0	0	0	0
Total	649	26	3	26	2	1	5	160	0

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

160 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
No Data Entered/Not Applicable !!!	

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
29.95	12.86	900	865

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)

We at LTCE have policies procedures framed in the form of standing instructions for the whole sanstha. 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 issues and smooth functioning. Number of computers on the campus are as per the students 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 is 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 house keeping facility. Budget is approved after scrutiny and approval of board of governance and local management committee.

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	NIL	0	0
Financial Support from Other Sources			
a) National	OBC, EBC, SC, ST, VJNT	1196	72185936
b) International	NIL	0	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 implementation	Number of students enrolled	Agencies involved
Yoga for Yuth	25/10/2018	35	NSS
Two days value added course on IoT	28/09/2018	30	Mr. Karan Makharia
Hackathon NASA Space App Challenge	12/02/2019	25	Mr.SaiKiran.
Industrial Visit to Sage Automation	20/02/2019	35	Mr.ShriniwasKulkarni
National level Internship on Hybrid Electric Vehicle	05/01/2019	150	Cummins Inc, Devise Electronics
Internship on Formula Race Car Design and Development	05/01/2019	110	Elite Technology Sonu Chaudhary (Director Elite Technology)
Internship on Hybrid Electric Vehicles	07/01/2019	70	Cummins Inc, Devise Electronics

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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
No Data Entered/Not Applicable !!!					

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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	7

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
ACS, Extramark, Sutherland, Precision telematics pvt. Ltd. , Logstar, Reliance JIO, L T InfoTech, Hexaware	275	197	Precision Telemative Pvt. Ltd., Maharashtra Knowledge Corporation	71	3

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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	1	LTCE	ELECTRICAL	San Jose State University	MS IN ELECTRICAL ENGG
2019	7	LTCE	EXTC	US & AUSTRALIA	MS
2019	3	LTCE	ETRX	US & GERMANY	MS
2019	2	LTCE	COMPUTER	US	MS
2019	10	LTCE	MECHANICAL	US , AUSTRALIA , GERMANY	MS

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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	1
CAT	2
GRE	8
TOFEL	5
Any Other	12

No file uploaded.

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

Activity	Level	Number of Participants
No Data Entered/Not Applicable !!!		

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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
2019	Cricke University	National	1	0	LTCE 1	Amey Patil
2019	Cricket college	National	2	0	Ltce 2	Avadoot Jadhav , Sunil Nair - Winner ,Prashant Mali . Pranay Salvi Runnerup
2019	Box cricket college	National	2	0	LTCE 3	Shivendra singh winner , Vishal pal narayan raskar runner up
2019	Football college	National	2	0	LTCE 4	Atharva patil . Ishwar jadhav winner , Binith shetty ,Pranav patel runnerup
2019	Rinkfootball college	National	2	0	Ltce 5	Advait Mhatre , Ravi Mishra winner . Pratik mehta , Varun sahu runnerup
2019	Volleyball college	National	2	0	LTCE 6	CHINMAY SHIRSAT , roHIT YADAV RUNNERUP
2019	carrom COLLEGE	National	5	0	ltce 7	Singles-Arun desI , doubles Anup sing . Arjun desai , Mixed doubles - Nilesh kharatmol , Kirti Ichl ,Runnerup -
2019	Badminton college	National	5	0	LTCE 8	Winner: Single:- Vivek Guta, Mayuri Kothavle(Girl) Double:- Swarnima & Shradha Shete
2019	tUG OF WAR COLLEGE	National	2	0	ltce 9	Winner: Ajinka Palav, Sonali Gholap(Girl) & team
2019	Dodgeball college	National	2	0	LTCE 10	Winner: Rahee Vishwasrao(Girl) & team

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

5.3.2 At LTCE we ensure that all activities are student centric and learner centric . Therefore the emphasis is on empowering student community. In view of this 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. Dean of Student affairs (Dr A.D.Sarode) looks after all the process of the formation of student council. Selection Procedure: The set criteria for the selection of council is followed based on their academics and managing abilities. Students are the interviewed by the committee, to select the student council members. The following is the composition and team of the student council for the year 201819 Students Council 201819 General Secretary: Miss Rutuja Talekar Cultural Secretary: Mr. Akash Shinde Technical Secretary: Mr. Prathamesh Mhatre Sports Secretary: Mr. Shravan Shinde Ladies Representative: Miss Anushka Srivastav In addition the co secretaries are also selected . The council can have their subteam. Activities of Student Councils : 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 Intercollege, university and state level competitions. Some talented individual students. Academic Bodies of the Institute : We have many academic bodies including internal academic council. However students are given following platforms where they can participate. Computer Society of India(CSI) ISHRAE I SAE Club Aero Club MESA (Mechanical Engg students association) SCEE (Student council of electrical engg) EESA (Electronic engg students association) IETE Student Forum (ISF) ETSA (Electronics

telecommunication engg students association) ELC (English literature club) WDC (Womens development cell) NSS (National service scheme)

5.4 - Alumni Engagement

5.4.1 - Whether the institution has registered Alumni Association?

Yes

ALTEA [Association of LokmanyaTilak 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

5.4.2 - No. of enrolled Alumni:

1793

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

No Data Entered/Not Applicable !!!

5.4.4 - Meetings/activities organized by Alumni Association :

No Data Entered/Not Applicable !!!

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 and 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,apititude coaching and so on.The MOUS are signed with premeir educational institute or with eminent Industry.Last year we signed MOU with VJTI under AICTE, Margdarshan scheme , wherein we are one of the mentee institute. The MOU enables nutual 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 equipments is handled by Heads directly in consultation with our directors based at Nagpur.In JUNE 2019 2 MOUS have been signed namely with (I) Tata Power Skills Development Institute (TPSDI) (II) Centre of Excellence in Maritime Shipbuilding (CEMS) (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 competetion wherein a group of interdesciplinary branches participate. This is a very prestigious competetion 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.Every year the students participate in Minibaja , a car building competition organized by SAEINDIA. The team which represented LTCE in USA is now invited by SAE CHINA in August 2019.The team is gearing up for the same.

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 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 beleive in holistic development of the students .We have formed IQAC for the purpose also take suggestios from Industry experts.
Teaching and	We are following OBE methodolgies soon will be applying for NBA accreditation

Learning	under TierII 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, termwork, 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 a 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 ebooks 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 wifi connected. The labs are state of the art with all modern equipments. 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 MOUs 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 (Hini 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:

E-governance area	Details
Planning and Development	For planning development for growth we make use of AICTE portal annually. We also use Mumbai University, DTE Maharashtra portals for administrative procedures.
Finance and Accounts	For finance accounts we use all possible digital modes of payments. Payables / Receivables. We have our own ERP which has payroll. The salaries are computed from ERP module.
Student Admission and Support	Students are encouraged to pay the fees through electronic modes vice versa. Within campus also digital payments are accepted.
Administration	For liaisoning with governing bodies we use their corresponding portals i.e. AICTE, DTE, University of Mumbai
Examination	Enrollment of students after admissions, Acceptance of exam forms, receipt of exam question papers, onscreen assessment of answer sheets is made possible through Mumbai University portal developed by M/S MKCL.

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	Dr R.N.Duche	WOSA 2018	NBA	15000
2018	Ajay Kashikar	SAE Membership	SAE	1500

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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)
2018	Financial Planning	NA	15/10/2019	15/10/2019	65	0
2018	Universal Brotherhood Day	NA	18/09/2019	18/09/2019	45	10
2018	Symposium on Environmental Problems their Solutions.	NA	26/10/2018	26/10/2018	150	8

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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
IOT , RASPBERRY PI PYTHON PROGRAMMING	4	02/07/2019	07/07/2019	06
Machine learning deep learning	1	13/05/2019	17/05/2019	05
Embeded systems RTOS	1	17/01/2019	17/01/2019	01
JTG summer school on information theory, signal processing, communications and networks at IIT bombay	1	02/07/2019	05/07/2019	04
Subject Orientation Programmes	9	01/07/2019	06/07/2019	06
Workshop on AI/ Machine learning an deep Learning	2	16/03/2019	17/03/2019	02
STTP on Hands on Machine learning and Deep Learning	2	13/05/2019	18/05/2019	06
FDP (CADFECO)	4	01/04/2019	01/04/2019	01
workshop on MATLAB expo	1	02/05/2019	02/05/2019	01
workshop on reference management in research using MENDELEY	1	19/09/2019	19/09/2019	01
Expert lecture on I.C.Engines design development by Dr Sudhaka Umale	25	11/09/2018	11/09/2018	01
Expert lecture on Patents IPR by Dr S.N.Teli	25	28/08/2019	28/08/2019	01
National Conference 2019	35	17/03/2019	17/03/2019	01
Tantragyan 2019 project competetion	45	19/03/2019	19/03/2019	01
FE Orientation	35	08/08/2018	08/08/2018	01

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
136	136	47	93

6.3.5 - Welfare schemes for

Teaching	Non-teaching	Students
Provident fund , Gratuity , EL/ML/CL/OD as per norms. Sponsorship for PG/Ph.D , Sponsorship for Conferences, Maternity leave concession	Provident fund , Gratuity , EL/ML/CL/OD as per norms	Council , FestivalsCultural/Sports/Tech , Sponsorship for projects , conferences.

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 has appointed an external auditor who is professional C.A.The agency does

annual audit of all our financial transactions submits balance sheet other statements. The agency gives following statements annually 1. Annexure B Establishment expenses as on 31st March 2. Annexure C Miscellaneous expenditures as on 31st March 3. Annexure E Other miscellaneous receipts as on 31st MARCH 4. Annexure F Advance to staff as on 31st March 5. Schedule of fixed assets as on 31st March 6, Schedule of lab equipment as on 31st March 7. Income and expenditure account for the year ending 31st March 8. Balance sheet as on 31st March 9. Statement of significant accounting policies as on 31st MARCH 4, The institute also does internal audit during last week of march every year. The accounts dept staff and admin staff does the inventory checks cash availability as on 31st March

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
1. BE Project grant from ISHRAE Rs 49500 2. SAE BAJA grant from M/S Dhanvallabh Rs 150000 3. SAE FACULTY MEMBERSHIP FEES	210000	BE Project Car building competition.

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6.4.3 - Total corpus fund generated

210000

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	Team LTJSS	Yes	HEADS , DEANS , PRINCIPAL
Administrative	Yes	Team LTJSS	Yes	PRINCIPAL , AO

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

1. Parents meeting is arranged departmentwise for higher classes (SE,TEBE) for mutual benefits. Parents involvement in student academics and other progress monitoring. Felicitation of subject toppers and branch toppers during meeting. 2. Parent meeting for FE students during induction and subsequent meetings during first year. Sensitizing parents about their cooperation and support for progress. Felicitation of subject toppers branch toppers during meeting. 3. Parents are invited for convocation ceremony .Parents having industry , entrepreneurship are identified for mutual exchange.

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

1. Yoga Training 2. Art of living courses 3 . Lectures by RAMKRISHNA mission monks.

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

1. Emphasis on research , encouragement to Ph.D candidates , emphasis on quality publication scopus /sci indexed , patents. Industry interaction , MOUS , Internships , Live projects. 2. Emphasis on internships , live projects through MOUS . Introduction of mandatory aptitude training , use of flipped classrooms concept. 3. Improved placements with better packages through networking .

6.5.5 - Internal Quality Assurance System Details

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 IQAC	Duration From	Duration To	Number of participants
2019	Expert lecture on Patents IPR by Dr S.N.Teli	28/08/2019	28/08/2019	28/08/2019	98
2018	Expert lecture on I.C.Engine design development by Dr Sudhakar Umale	11/09/2019	11/09/2019	11/09/2019	125
2018	Sympsiom on Environmental Problems and their Solutions	26/10/2018	26/10/2018	26/10/2018	150
2019	National Conference 2019	17/03/2019	17/03/2019	17/03/2019	125
2019	Tantrayyan project competetion	19/03/2019	19/03/2019	19/03/2019	150

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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
Womens week celebration	11/03/2019	15/03/2019	45	10
Visit to disabled women-old age home	12/03/2019	12/03/2019	5	3
Cultural day for women	13/03/2019	13/03/2019	45	10
Expert talk on health care	14/03/2019	14/03/2019	45	8

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**

The following initiatives have been taken to keep the campus eco friendly / environment conscious. 1. Energy Conservation The energy usage is done sparingly or in a staggered manner. Energy Audit and Conservation course is offered as elective subject at Institute level and Department level (ILO1018). Campus energy conservation projects are promoted and allotted to final year students. CFLs and LEDs are used for lighting at most of the places. Energy conservation awareness labels and posters are provided near main switches. Use of Air conditioning unit is made only when necessary. 2. Use of renewable energy For use of renewable energy the following measures are taken: Solar panels installed to harness renewable energy. 277 KW capacity - 840 panels 3. Water harvesting The campus terrace is roofed and roof water is collected through ducts and various sump systems have been set up to store the water. Harvested rainwater is used for groundwater recharge. This has appreciably resulted in everincreasing water levels. Due to this, the college is selfreliant for its water usage. 4. Efforts for Carbon neutrality The college has made a commitment to being carbon neutral by allowing the stakeholders to be part of the solution to climate change. The campus has enough natural greenery. The big trees are along the borders of the campus. Use of bio mass is proposed. Sustainability projects are promoted and allotted among the final year students. It helps apparently to achieve carbon neutrality. 5. Plantation Tree plantation program is conducted, within campus and outside campus, on the occasion of Founders Day/World Environment day. Plant mementos are presented to the guests for each function/ceremony of the campus. The plant mementos for felicitating the internal stakeholders are then planted in the college campus. 6. e-waste management: A team for management of computer hardware, accessories and software is formed at institute level. Electrical, electronic and computer accessories like displays, CPU"s, chargers etc. which are affirmed "archaic" are disposed of by dedicated vendor (Bloomberg) on periodical basis.

7.1.3 - Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	0
Provision for lift	Yes	0
Ramp/Rails	Yes	0
Rest Rooms	Yes	0

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
2018	1	1	13/10/2018	01	Driving skills development	safety , environment	50
2018	1	1	25/10/2018	04	Yoga for yuth	Meditation health	60
2018	1	1	02/10/2018	01	Swachh Bharat Abhiyan	Cleanliness Gandhijis life	45
2018	1	1	02/10/2018	01	Bhajan Sandhya	Bhajans by Gandhiji	15

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

Title	Date of publication	Follow up(max 100 words)
No Data Entered/Not Applicable !!!		

7.1.6 - Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Yoga for Yuth	25/10/2018	28/09/2019	60
Universal Brotherhood Day	11/09/2018	11/09/2018	150

LTJSS Founders Day	10/10/2019	10/10/2019	200
International Womens Day	08/03/2019	15/03/2019	60

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

The following initiatives have been taken to keep the campus eco friendly

1. Energy Conservation The energy usage is done sparingly or in a staggered manner. Energy Audit and Conservation course is offered as elective subject at Institute level and Department level (ILO1018). Campus energy conservation projects are promoted and allotted to final year students. CFLs and LEDs are used for lighting at most of the places. Energy conservation awareness labels and posters are provided near main switches. Use of Air conditioning unit is made only when necessary.
2. Use of renewable energy For use of renewable energy the following measures are taken: Solar panels installed to harness renewable energy. 277 KW capacity - 840 panels
3. Water harvesting The campus terrace is roofed and roof water is collected through ducts and various sump systems have been set up to store the water. Harvested rainwater is used for groundwater recharge. This has appreciably resulted in ever increasing water levels. Due to this, the college is self-reliant for its water usage.
4. Efforts for Carbon neutrality The college has made a commitment to being carbon neutral by allowing the stakeholders to be part of the solution to climate change. The campus has enough natural greenery. The big trees are along the borders of the campus. Use of bio mass is proposed. Sustainability projects are promoted and allotted among the final year students. It helps apparently to achieve carbon neutrality.
5. Plantation Tree plantation program is conducted, within campus and outside campus, on the occasion of Founders Day/World Environment day. Plant mementos are presented to the guests for each function/ceremony of the campus. The plant mementos for felicitating the internal stakeholders are then planted in the college campus.
6. Waste management: A team for management of computer hardware, accessories and software is formed at institute level. Electrical, electronic and computer accessories like displays, CPU's, chargers etc. which are affirmed "archaic" are disposed of by dedicated vendor (Bloomberg) on periodical basis.

7.2 - Best Practices

7.2.1 - Describe at least two institutional best practices

LTCE NAAC/AQAR/201819 CRITERIA VII Institutional Values Best Practices 7.2 Best Practices

7.2.1 Following practices have contributed towards the achievement of the vision / mission and objectives as well as improvement of quality of various activities of LTCE. These activities have also served the purpose of socioeconomic development and inclusivity on a macro level, thus adding value to the student progress.

Best Practice 1. Title of the Practice : Strengthening of Student Support and Welfare through Project Based Learning. (PBL)

Goal To extract leadership qualities and technical outcome of students through financial and nonfinancial assistance. To develop managerial capabilities through project management. To develop holistic approach for the engineering problems. To practice time management. To address the issues of socioeconomic development inclusivity. To add value to the student performance.

The Practice The Society of Automotive Engineers (SAE) and ROBOCON club is established at institute level and students from different branches are participating enthusiastically. Institute provides inhouse resources financial support for participating in different events and competition. Students are passionate about these activities and participate whole heartedly. The activity consists of developing a CAD model prototype under the guidelines given by SAE ROBOCON. The students have to qualify the virtual design competition first then they are allowed to make a prototype. On qualifying in virtual design they are given an engine of 500 cc. They have to develop / build all terrain vehicle it is tested in static / dynamic events. Similarly ROBOCON gives theme every year students have to design develop the robot. Evidence of Success We have participating groups every year. This tradition shows the passion for the activity. SAE members develop the car and compete in the events. i.e. Formula SAE (Team SCHNELL RACING), BAJA (Team TT), ROBOCON India and other super mileage competitions organised at National and International levels. Many students are attracted to our institute owing to encouragement of ours to this activity. Many passionate students have been appointed by companies like Mahindra Mahindra Ltd. Some students have pursued higher education in the fields of robotics automobile abroad. Some students have been appointed as SAE coordinators globally. Team TT Racing India (SAE BAJA) Our SAE BAJA Team got an opportunity to participate in SAE CHINA competition after their success in MARYLAND, USA in April 2018. Our team stood third amongst 90 teams all over world. It was the only Indian team to participate. Subsequently our students Shubham Mhapankar Bhoumik Momaya have been appointed as liaison officers for SAE CHINA for internationalising the competition. Shubham Mhapankar has joined Oxford university to pursue masters in Motorsports. SAE BAJA Team selected for USA Event Our BAJA Team stood 6th among 450 colleges in SAE BAJA virtual 2017 held at Christ University, Bangalore in June 2016. The team was selected for SAE BAJA INTERNATIONAL USA among top 100 universities all around the globe and became one of the 5 Indian teams to represent the nation at worlds toughest competition to be held at MARYLAND, USA. In Enduro Student India 2017, which was held at Coimbatore, the team stood overall 22nd among 74 institutes and also stood AIR 7th in Business presentation, AIR 20th in Cost event, AIR 24th in Manoeuvrability and AIR 19th in Endurance race and achieved top 15 ranking in Design at SAE BAJA India held at Indore. Conceiving, designing, building and testing a formula race car at student level and then competing against various other teams from different universities all over the country is a challenging task but exciting as well. Its a demonstration of creativity, engineering expertise and engineering skills by a group of passionate students and that's what a team of 10 engineering students known as team Schnell Racing. The team has participated in FORMULA BHARAT 2017 which was held in Kari Motor

Speedway, Coimbatore from 2629th January 2017. Team was ranked overall 19th among 68 teams that participated in the competition and this being a student engineering design competition the team managed to hold 9th position in the design event. This is what team Schnell Racing is doing since 2014 and did it in 2017 with their car SR38. ROBOCON India: It is an international robotics competition where two teams compete each other on a set of hurdles or problems given in the problem statement. It is broadcasted by the Asia Pacific Broadcasting Union (ABU). Robocon 2015 was the first attempt of Lokmanya Tilak College of Engineering in this prestigious competition. In its very first endeavour, the team earned praises from colleges from all around India. The team secured a commendable 23rd ranking all over India and 5th all over Mumbai. The team also boasts of being the only team to have a match tied with the 7 time defending champions - Nirma University. Robocon 2016 was the second attempt of LTCE in this prestigious competition. This year 105 teams from all over India participated in this event, among them we stood 6th all over India, 3rd in Maharashtra and 1st in Mumbai. That was the first huge achievement for the team. The team was even awarded with the „BEST ECONOMICAL ROBOT 2016“. Robocon Team (201415) This year theme takes inspiration from Japan's traditional game Tosenkyo. The theme revolves around the word "asobi" (play), which is also a fundamental philosophy behind Robocon. In "asobi," playful, unique, original show of skills is often more important than winning or losing, as everyone - friend and foe alike - can applaud and enjoy them. So, in the "asobi" spirit, the theme encourages playful, unique and original robot designs and strategies. The positive result of the competition is still to come. Problems Encountered and Resources Required The main problem which the team faced was the testing of the vehicle which requires a proper area with different types of hurdles which are used in the racing track. Team faced problem in the transportation of the vehicle as well as for testing robot due to space constraints. The team had to tow/transport the vehicle everyday for the testing to the nearest open ground that is almost 34 km away which incurred additional costs. Notes (Optional) By participating in these national level competitions the members had a subsequent boost in their confidence level as they interacted to some of the finest engineers from the automotive industries. Being able to represent the nation at the world's biggest competition is the most appraisable achievement which makes our institute proud of this successful feat. This is the biggest motivation for other nonparticipating students to think out of the box and apply the theoretical knowledge in real life. Students were encouraged to file their own patents as well. Best Practice2 1. Title of the Practice : Comprehensive Evaluation , emphasis on formative assesment use of ICT tools Goal Continuous evaluation of students performance. To develop punctuality To give chance to student to improve performance To enable the student optimize performance through ICT tools. To facilitate easy learning A move towards autonomy. The Practice Institute has taken following steps to achieve the goal. □ Direct and indirect assessments are conducted as per COs. □ Various tools and performance indicators are used for assessing the level of understanding of the students. □ Typed manuals of the experiments (performance) are issued to students. □ Conducting remedial classes for slow learners and absentees. □ Maintenance of log book for conducting labs smoothly. □ Internal answer scripts are shown to the students. □ Conducting GATE classes for students interested in pursuing higher education / Jobs. Provision of multimedia lab in library for access to publications other study material. Around 650 computers in LAN having internet and bandwidth of 160 mbps. Campus wify with 32 access points Provision of downloadable Springer ebooks. Introduction of googleclassrooms subject wise by teachers. NPTEL Chapter for certification courses. . Evidence of Success □ Continuous improvement of grade by the end of the semester, which in turn helps students in tracking their own progress. □ Uniformity and clarity of the experiment during explanation of theory by the faculty during laboratory session. □ Enhancing the learning capability of slow learners and updating students with important topics/ revision of topics with respect to examination. □ Uniformity of experiments with respect to results achieved by a particular batch and cross verification with the previous batch. Also to make faculty aware about the status of experiments performed. □ More and more students are registering for GATE examination in the academic every year. Students are getting jobs based on the certification courses completed. Problems Encountered and Resources Required □ Due to continuous evaluation process students gets less time for cocurricular /extracurricular activities. □ Lack of familiarity with the evaluation system of newly appointed faculty. □ Problems encountered due to climatic condition and unforeseen circumstances. □ Less time for faculty to concentrate on research activities and administration work. Changing trends of learning evaluation.

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

http://www.ltce.in/assets/pdf/Best_Practices_201819.pdf

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

At LTCE our priority and emphasis is on our mission which states " To create technically competent and ethically responsible professionals capable of providing efficient solutions to the contemporary world ." However we also emphasize on social endeavours which not only serve the noble cause but also develop national aspirations amongst students. The students council NSS team take lead in these activities. The main aim is to create sensible responsible citizens who are change agents can impact masses. To achieve this goal we involve ourselves in following social endeavours. 1. NSS cell : LTCE has a vibrant NSS unit of 50 students who is

guided by a faculty coordinator . The coordinator undergoes training given by the University officials.Under NSS banner the following activities are conducted. Blood donation : NSS team organizes a blood donation camp every year on founders day .i.e 10th October. Fruits / Grains distribution : Fruits / Frains / Clothes are distributed to various ashrams / NGOS on founders day. Tree plantations : On 15th August every yea tree plantation is done by our NSS team. Residential camp : NSS residential camps are arranged for 2 weeks in remote villages to spread various govt schemes like swachh bhara abhiyaan other cleanliness drives and conservation drives. NSS Rallies : Rallies are prganized in collaboration with NGOS to spread awareness of road safety fuel conservation. 2. Sports : LTCE organizes sports festival annually which is called as SportsZephyr. In this festival students participate in various tournaments at University level bring trophies.The management sanctions budget for this activity. 3. Cultural festival : LTCE Organizes cultural festival called CultZephyr annually. The management sanctions budget for this festival annually.During this festival various activities like singing , dancing fashion show are performed. This forms a platform for students to show their talents.This also boosts their confidence improves overall personality.The students learn event management 4. Technical : LTCE organizes tech fest called as TechZephyr annually. This event provides a platform for out of bix thinking . During this various tech sports , auto exhibitions are arranged. Robotics competetions other projects are also displayed. Students enthusiastically take part in this event.The management sanctions budget annually. 5. Natyavishkar : This is a dramatics competetion organized by LTCEMarathi Vangmay Mandal . This is interstate drama competetion in which groups all over Maharashtra take place. The competetion offers prizes to top 3 winners. This activity helps to develop inner personality. 6. LTCE has the following clubs Marathi Vangmay Mandal Hindi Sahitya Sangh Organizes open mike poems competetion English Literatue Club - Organizes drama competetions. All these extra curricular activities help the students in over all personality development also event management.

Provide the weblink of the institution

<http://www.ltce.in/>

8.Future Plans of Actions for Next Academic Year

At LTCE we are committed to improve the quality of technical education imparted , in line with our vision , mission statements .As per the new education policy our emphasis will be on the research with the aim of creating manpower which is employment ready .This is possible with adequate or perhaps beyond norms infrastructure and qualified , competent teachers . We already have sound infrastructure in terms of classrooms , tutorial rooms , seminar halls , state of the art laboratories .We will also follow best practices which are benchmarks. The following are the best practices which we follow and continue to improve upon. 1. Outcome based and learner centric education in line with Washington Accord We have been maintaining the COPOSOPEO attainment records coursewise. Improvement exercise by setting the targets , choosing appropriate methods of assessment i.e. direct / indirect or formative / summative . 2. ERP for smooth functioning across the institute. 3. Adequate computational facilities with internet WiFi enabled campus. (160 MBPS) 4. Upgrade library books , ebooks , online journals (sciencedirect , IEEE , SPRINGER) for facilitating access to research scholars. 5. Upgrading the labs with state of the art equipments , upgrading the labs to research labs . 6.Appointing experienced and qualified faculty in line with AICTE norms. 7. Introduction of more PG Ph.D. programmes. 8. Better industry interaction through MOUS for internships , live projects , R D , Consultancy. 9. Establishment of centre of excellence , incubation centres to facilitate entrepreneurship. 10. Improved teaching pedagogies such as ICT enabled classrooms , flipped classrooms. 11. University representation Our Principal is Chairman , Board of Studies for Mechanical Engg. In addition many of our regular faculty members participate in syllabus revision , paper setting and assessment work. 12.Better placements through networking and also through employability enhancement of our students.We have full fledged employment enhancement programmes designed for our students. This EEP consists of grooming on English language , communication skills , presentation skills , exposure to foreign languages , aptitude test core competence. All these aspects of grooming are covered in four years of Engineering. 13. We also ensure that the students are exposed to cutting edge technologies in their respective fields. This is achieved by organizing value added courses in collaboration with industry. 14. Student Progression We also have a mechanism to encourage students to go for higher education like PG , MBA etc. Students are given free GATE coaching by our own faculty. 15. Appointment of counsellor We have a counsellor who counsels students for all problems academic , personal, psychological etc. 16. Project based learning Our management is keen on PBL and encourages students with financial support. Every year our students participate in SAE car building , ROBOCON competetions. Our aim is to have permanent affiliation then autonomy then deemed university.We have already applied for permanent affiliation . Next steps will be taken soon when we get permanent affiliation status.