



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution		LOKMANYA TILAK COLLEGE OF ENGINEERING
Name of the head of the Institution		Dr Vivek.K.Sunnapwar
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		02227541005
Mobile no.		9821221952
Registered Email		principal.ltce@gmail.com
Alternate Email		naac.ltce@gmail.com
Address		Sector - 4 , 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	Self financed
Name of the IQAC co-ordinator/Director	Dr Subhash .K.Shinde
Phone no/Alternate Phone no.	02227541005
Mobile no.	9594170066
Registered Email	skshinde@rediffmail.com
Alternate Email	naac.ltce@gmail.com

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://ltce.in/assets/AQAR_2018-19.pdf
4. Whether Academic Calendar prepared during the year	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	https://ltce.in/assets/calendarltce1920.pdf

5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity	
				Period From	Period To
1	B++	2.95	2017	30-Oct-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	08-Jul-2019 150	110
Webinars on thrust areas	06-Apr-2020	250

	90	
Industry Institute Interaction for internships and placements.	08-Jul-2019 150	400
Activities with professional bodies i.e. SAE , ISHRAE , CSI , TETE , IEEE , IIIE , ISTE etc	08-Jul-2019 250	500
Introduction of online teaching platform NPTEL chapter	08-Jul-2019 200	200
Live industry projects	08-Jul-2019 150	250
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8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
LTCE faculty	Minor Research Grant	University of Mumbai	2019 365	290000
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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)

1. INDUSTRY INSTITUTE INTERACTION 2. INDUSTRY ORGANIZED COURSES FOR STUDENTS
3. INTRODUCTION TO NPTEL 4. EMPHASIS ON OBE 5. INTERACTION WITH PROFESSIONAL BODIES

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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	Achivements/Outcomes
To follow best practices and bench marks for quality	Better exposure to students
Conduction of workshops , sttp's , conferences	Improve soft skills , communication , presentation.
To harness utilities of various online platforms for imparting theory lectures and practicals.	To improve digital literacy.
Future ready campus	Upgrading of library , computational facilities , campus wifi , blended learning
Professional bodies	CSI , SAE , IEEE , IETE , ISTE etc
MOU'S with Industry	Internships , Live projects , Consultancy , Placements
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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
Governing Body , LTJSS	20-Nov-2020

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

2020

Date of Submission

27-Jan-2020

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)

The institute has developed an in house ERP , which caters to the whole sanstha LTJSS , Nagpur of which LTCE is a part . 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 get unique id through this ERP. All service requests like maintenance , IT hardware , software 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. From first year to final year and after passing the student has access to his account in ERP for requesting documents from admin like TC / LC , transcripts , attestations etc. .Faculty leave , achievements , publications , profile is available on ERP.

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. Online lectures and virtual labs were conducted during the pandemic situation. Online tests were conducted for internal and external assessments. 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 employ ability/entrepreneurship	Skill Development
National level hands-on webinar	Certificate course -college level in collaboration with Industry	05/05/2020	20	National level hands-on webinar and codethon 5/11/2020, 20 days focus on employability Coding	Coding
Cyber Security Cyber Law	Certificate course -college level in collaboration with Industry	30/06/2020	5	Cyber Security Cyber Law Online Training Program 6/30/2020, 5 days focus on employability Cyber Crime, Security Awareness and Job Opportunities	Cyber Crime, Security Awareness
Employability Enhancement Training Program	Certificate course -college level in collaboration with Industry	01/07/2020	10	Course focused entirely on soft skill development	Aptitude and soft skill

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	Institute level & Dept level interdisciplinary electives.	06/01/2020
BE	Institute level & Dept level interdisciplinary electives.	08/07/2019
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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	Computer Engineering	08/07/2019
BE	Electronics Engineering	08/07/2019
BE	Electronics & Telecommunication	08/07/2019
BE	Electrical Engineering	08/07/2019
BE	Mechanical Engineering	08/07/2019

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

	Certificate	Diploma Course
Number of Students	900	Nil

1.3 – Curriculum Enrichment

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

Value Added Courses	Date of Introduction	Number of Students Enrolled
Big Data Analytics workshop	04/10/2019	60
Ethical Hacking	01/10/2019	58
National level hands-on webinar and codethon	11/05/2020	300
PLC Programming and VFD	03/10/2019	45
Redhat Linux training	15/01/2020	30
Workshop on Python Programming	14/03/2020	30
Internship on Gasoline/Electric formula car design and development	11/01/2020	110
Internship on Blockchain Technology	24/01/2020	28
Online Webinar on scope in automotive Industry	28/05/2020	850
Online Webinar on	14/06/2020	250

Manufacturing and Shiplift applications in Ralm of automation and Industry 4.0

[View File](#)

1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Computer Engineering	63
BE	Electronics Engineering	11
BE	Electronics & Telecommunication Engineering	62
BE	Mechanical Engineering	97
BE	Electrical 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 pre-designated 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. 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 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
ME	Engineering & Technology	36	36	2
BE	Engineering & Technology	540	540	388

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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	1944	8	116	6	110

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
116	107	3	10	4	3

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

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

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

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/practicals.

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
1944	116	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
116	116	Nil	Nil	25

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
2020	Dr. Ravindra Duche	Professor	Selected as BoS Member, EXTC, UoM
2020	Dr. Rajeshree Shinde	Assistant Professor	Elected as a EC Member of IETE Navi Mumbai for period of 2020-22.
2020	Ms. Gitimayee Sahoo	Assistant Professor	Best Paper award, IEEE Pune-Con international conference
2020	Mr. Kushal Dhawad	Assistant Professor	Best project Award(National level Project Comptition Tantrgyan 2K20, LTCE Navi Mumbai
2019	Dr V.K.Sunnapwar	Principal	Chairman BOS , Mechanical Engg, University of

[View File](#)**2.5 – Evaluation Process and Reforms**

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	ETRX	VIII	17/10/2020	13/11/2020
BE	ETRX	VII	26/11/2019	01/01/2020
BE	ETRX	V	27/11/2019	27/01/2020
BE	ETRX	III	26/11/2019	27/01/2020
BE	COMP	VIII	17/10/2020	13/11/2020
BE	COMP	VII	04/12/2019	02/01/2020
BE	COMP	V	12/12/2019	05/02/2020
BE	COMP	III	17/12/2019	05/02/2020
BE	EXTC	III	26/11/2019	27/01/2020
BE	EXTC	V	27/11/2019	27/01/2020

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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. In addition to these, online assessment and evaluation has been introduced to overcome the current pandemic situation.

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. In addition to these, online assessment and evaluation has been introduced to overcome the pandemic situation.

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://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
Mechanical	BE	Mechanical	258	258	100
ELECT	BE	Electrical	65	65	100
EXTC	BE	Electronics & Telecommunication	100	100	100
COMP	BE	Computer Engineering	142	142	100
ETRX	BE	Electronics	18	18	100

[View File](#)

2.7 – Student Satisfaction Survey

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

<https://docs.google.com/spreadsheets/d/1UR06jlIL2j37hXx6p6K3LMGFYT968bfs1jPsmDJ9qrI/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

Projects sponsored by the University	365	University of Mumbai	3	3
Industry sponsored Projects	365	RCF , BARC Others	0.53	0.53
Students Research Projects (Other than compulsory by the University)	365	LTCE Mnagement	2.5	2.5
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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
Emerging Trends in IP : A Vehicle of Promoting Research and Innovation.	Electronics	06/06/2020
How to Develop Effective Research Skills	Electronics	28/06/2020
Guest Lecture on Cyber Security and Laws	Electronics Telecommunication	23/08/2019
Workshop on Latex	Electronics Telecommunication	26/07/2019
Seminar on Dcotech	Electronics Telecommunication	22/08/2019
Seminar on "How to write a Technical Paper" under IETE	Electronics Telecommunication	03/02/2020
Webinar on Role of Online Teaching Pedagogy and ICT tools" in Outcome Based Education".	Electronics Telecommunication	30/05/2020
Webinar on Scope of Digital Marketing forengineers. EXTC 06 June 2020	Electronics Telecommunication	06/06/2020
Seminar on ORCAD by CADD centre VashiNavi Mumbai	Electrical Engineering	20/02/2020

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

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Best Paper Award Paper title- "Challenges in Deep Learning Models for	Prof. Smita Attarde	School of Computer Science Engineering, Sandip University,	01/05/2020	Best Paper Award Paper title- "Challenges in Deep Learning Models for

Biometric Recognition" Industry 4.0: Future Perspective Agility in Conference (ICIFPA-2020)		Nashik May 2020		Biometric Recognition" Industry 4.0: Future Perspective Agility in Conference (ICIFPA-2020)
2nd Prize winner of Technology challenge competition on the occasion of National science day 2020	1.Shubham Kadam 2.Saee Mane 3.Mansi Kasekar	SAMEER, IIT Bombay	28/02/2020	2nd Prize winner of Technology challenge competition on the occasion of National science day 2020
Best Paper award	Ms. GitimayeeSahoo	IEEE Pune-Con international conference	19/12/2019	Best Paper award
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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
1	Nil	Nil	Nil	Nil	30/06/2020
No file uploaded.					

3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
1	2	0

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

Name of the Department	Number of PhD's Awarded
Computer Engineering	1

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	Applied Mathematics	1	3.37
International	Mechanical Engineering	11	3.50
International	Computer Engineering	5	3.00
International	Electronics Engineering	3	3.50
International	Electronics Telecom Engineering	12	3.00
International	Electrical	1	3.00

Engineering

[View File](#)

3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Computer Engineering	6
Electronics Engineering	1

[View File](#)

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
Fuzzy analytic heirarchy process for green supplier selection in Indian Industry Fuzzy analytic heirarchy process for green supplier selection in Indian Industry	Dr V.K.S unnapwar	Springer , Singapore	2019	15	LTCE	12
Applicat ion of DMAIC SPC to improve operationa l performa nce of mfg ind : A case study	Dr V.K.S unnapwar	Institute of Engineers	2019	15	LTCE	8
ITCA an IDS and trust coll aborated with ACK approach to mitigate network layer attack on MANET	Dr S.K.Shinde	Wireless personal c ommunicati ons	2019	8	LTCE	3

routing.						
Sentiment classification of social media reviews using an ensemble classifier	Dr S.K.Shinde	IJECS	2019	8	LTCE	2
Most persistent feature selection method for opinion mining of social media reviews	Dr S.K.Shinde	IJICTCS	2019	8	LTCE	2
Identification prioritization of agile mfg enablers for small medium industries	Dr A.D.Sarode	Material science Engg , IOP Conference	2019	7	LTCE	1
Experimental performance analysis of domestic refrigeration system using nano materials	Dr Mrs K .H.Dhanawade	ICIMA 2020	2020	4	LTCE	4
Effect of spoilers on aerodynamic properties of car	Dr V.K.Y akkundi	IJMAE	2020	2	LTCE	1
View File						

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	Dr V.K.S	Springer	2019	15	12	LTCE

analytic heirarchy process for green supplier selection in Indian Industry	unnapwar	, Singapore				
Applicat ion of DMAIC SPC to improve operationa l performa nce of mfg ind : A case study	Dr V.K.S unnapwar	Institute of Engineers , C 100	2019	15	8	LTCE
ITCA an IDS and trust coll aborated with ACK approach to mitigate network layer attack on MANET routing.	Dr S.K.Shinde	Wireless personal c ommunicati on	2019	8	3	LTCE
Sentiment classifica tion of social media reviews using an ensemble classifier	Dr S.K.Shinde	IJEECS	2019	8	2	LTCE
Sentiment classifica tion of social media reviews using an ensemble classifier	Dr S.K.Shinde	IJICTCS	2019	8	2	LTCE
Identifi cation pri oritizatio n of agile mfg enablers	Dr A.D.Sarode	Material science En gineering , IOP Conference	2019	7	1	LTCE

for small medium industries						
Experimental performance analysis of domestic refrigeration system using nano materials	Dr Mrs K .H.Dhanawade	ICIMA 2020	2020	4	4	LTCE
Effect of spoilers on aerodynamic properties of car	Dr V.K.Y akkundi	IJMAE	2020	2	1	LTCE
View File						

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	18	8	7	8
Presented papers	12	6	7	12
Resource persons	Nill	3	Nill	Nill
View File				

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
Blood Donation Activity	NSS	3	49
Waste to Compost	NSS	2	20
Anti-Tobacco Pledge	NSS	3	250
Save Electricity	NSS	3	32
Poster Making Competition	NSS	4	45
Drug Abuse and Cyber Security	NSS	3	100
Fit India Movement	NSS	3	30

Library Project	NSS	4	49
Bamboo Rakhi	NSS and Vivek Rural Development Centre	3	49
Skill Development	NSS	3	49
View File			

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
NSS Cell	Grace marks- 10	University of Mumbai	45
NSS Cell	Certificate	University of Mumbai	45
View File			

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

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Swachh Bharat	LTCE-NSS	Waste to compost	5	20
Swachh Bharat	LTCE-NSS	Bamboo Rakhi	3	495
Social Awareness	LTCE-NSS	Drug abuse cybersecurity	4	125
Social Awareness	LTCE-NSS	Anti tobacco pledge	12	255
Gender Issue	LTJSS	Online quiz	5	550
View File				

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
SAE	15 students - Interdisciplinary	LTCE Management	210
View File			

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
Internship	IoT and Interfacing	Shah and anchor	20/05/2020	31/05/2020	Rushikesh Pawar

	Boards	Engineering College			
Internship	Operation and Maintenance in Transmission	Doordarshan Kendra	30/12/2019	04/01/2020	Rushikesh Jadhav, Tejas Mhatre
Internship	Social Media Optimization	Marketing Mantra	01/05/2020	01/06/2020	Vikrant Neve
Internship	Telecom Transmission Technologies-Satellite Communication and OFC	Bharat Sanchar Nigam Limited	09/12/2019	13/12/2019	Pawan karkoon Shivani Singh Siddharth Raul Gaurang Tari Shubham Dhonde Sugat Palsagar Nikhil
View File					

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
SAGE Automation, Thane	15/02/2019	Training program, Industrial visit, Project guidance, workshop, Seminar	4
BSNL, Yeur	01/07/2019	Project guidance and Seminar	11
Juridical Institute of Power, a venture of M/s	11/05/2020	To update the information about importance of power sector and recent trends in power sector.	24
View File			

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
135	131

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing

Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
View File	

4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
Koha	Partially	3.22.05.000	2014

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	34628	1046224	Nil	Nil	34628	1046224
e-Books	10141	1888620	Nil	Nil	10141	1888620
Journals	73	214776	Nil	Nil	73	214776
e-Journals	465	1184017	Nil	Nil	465	1184017
Weeding (hard & soft)	800	10000	Nil	Nil	800	10000
Weeding (hard & soft)	4869	10500	Nil	Nil	4869	10500

[View File](#)

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
Nil	NMEICT	Youtube	30/06/2020

No file uploaded.

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

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

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

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
Nil	Nil

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
52	16	40	42

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)

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, internet 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.

<https://ltce.in/>

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	1083	53617811
b) International	Nil	Nil	0

[View File](#)

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	Date of implementation	Number of students	Agencies involved
------------------------	------------------------	--------------------	-------------------

enhancement scheme		enrolled	
Fit India Movement-Yoga Session	25/09/2019	15	LTCE-NSS Unit
Skill Development Seminar	14/08/2019	49	LTCE-NSS Unit
Industrial Visit to Sage Automation	23/08/2019	30	SAGE Automation , Thane
Workshop of Practical Orientation on PLC Programming and VFD	03/10/2019	45	SAGE Automation , Thane
Redhat Linux training and 3 months off-site internship training	15/01/2020	30	Mr.Ramesh Kharat Corporate Trainer priar techno World, Navi Mumbai
Workshop on Python Programming	14/03/2020	30	Mr.Nishant Joshi Students ,CS DEPT, LTCE,Navi Mumbai
Online Webinar on topic "Taking Learning and research forward using IEEE xplore digital library"	27/06/2020	40	Dr. G.K. Upadhyay Seminar training Manager ebsco , Information Services, New Delhi
Webinar on Python in Depth Using Keras Tensorflow ,Blockchains Technology its Application, Complete Data Visualisation Using Tableau , Scripting Machine Learning Algorithms in R , Building AI Driven Robots using RPA,Future Prediction using ML AI	13/05/2020	800	Mr Pranav Shastri
Seminar on Bug Bounty,Placements,Business Analyst,Git/Github,Linux,GATE/GR E,Game Development,UI/UX Design,Website Front End,Python,Cloud	16/01/2020	160	By The Students For The Students
Webinar on IOT	18/02/2020	30	Mr.Pranav Pai Vernekar

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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
2020	Redhat Linux training and 3 months off- site internship training	10	10	2	Nil
2020	Employability Enhancement Training Program by T&P cell	Nil	175	Nil	54
2020	Career Opportunities and Profile Building	Nil	118	Nil	Nil
2020	Lecture Series and Guidance on Higher Studies Opportunities	290	Nil	24	Nil
2020	How and why to prepare for GATE and Various Competitive Exams	68	Nil	30	Nil
2020	Career Opportunities for Electronics and Telecommunication / Electronics Engineering Graduates	Nil	52	Nil	Nil
2020	Career Guidance for Mechanical Engineers	Nil	54	Nil	Nil
2020	Artificial Intelligence and Machine	Nil	64	Nil	Nil

Learning -
Research,
Applications
and Careers

[View File](#)

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
Nil	Nil	Nil

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
Amazon Web Services , L T Infotech , Capgemini , Infosys , Reliance Jio , TCS , Burns Mcdowell , Torrent power , Toyo Engg , Zeus , Nucsoft , Sankey solutions....etc	450	241	IBM , Cognizant , Byju , Toppers , Jaro ,	48	26

[View File](#)

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
2020	1	LTCE	Electronics Engg	University of strathclyde, Glasgow	MS
2019	1	LTCE	Electronics Engg	University of Buffalo, State University of New York	MS
2019	1	LTCE	Electronics Engg	University of Clearlake	MS
2019	1	LTCE	Electronics	Herbert Werthiem	MS

			Engg	College of E engineering, University of Florida	
2019	1	LTCE	Computer Engg	NMIMS	PGDBM
2019	1	LTCE	Mechanical Engg	K.J.Somaiya College of Engg	M.Tech (CAD / CAM)
2019	1	LTCE	EXTC	SRH University, Berlin	Engg & Tech management in digital industry
2019	1	LTCE	EXTC	Stevens Institute of technology, New Jersey	Software Engg
2019	1	LTCE	EXTC	University of Alabama, Birmingham	MS Data Science
2019	1	LTCE	EXTC	San Jose State University	MS Electrical Engg
View File					

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
NET	Nil
SET	Nil
SLET	Nil
GATE	7
CAT	Nil
GRE	12
TOFEL	6
Civil Services	1
Any Other	9
View File	

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

Activity	Level	Number of Participants
Cricket 9	University Level	2
Badminton 9	University Level	1
Cricket Institute Level 9	Institute Level	10
Badminton 9	Institute Level	1

Chess 9	Institute Level	1
Football 9	Institute Level	8
Rink Football 9	Institute Level	1
Neon Football 9	Institute Level	4
Volleyball 9	Institute Level	1
Group Dance 9	Inter college	8
View File		

5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2020	Tantragyan	National	Nil	Nil	123	Rugved Amrutkar Kunal Jangale Nilaya Mendhe Priyanka Deore
2020	Cricket	National	1	Nil	160600194	Chinmay Sutarat
2020	Miss Fresh Face Pageant	National	Nil	1	1234	Amrapali Kharat Kharat
View File						

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. Dr.Avinash Sarode, Dean of Student affairs is actively involved in the process of forming student council. Selection Procedure The criteria for the selection of council is followed based on their academics and event management skills. Students are the interviewed by the committee, to select the student council members. The Student council members 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 viz. a viz. Sports, Cultural and Technical. Wide variety of sports and technical 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. 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 LTCOE 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 Motor sport competitions. AeroCLUB LTCE AeroCLUB LTCE is student venture of the students of Lokmanya Tilak college of engineering. Aero CLUBLTCE is a society of engineering students who design, fabricate and test RC (Remote Control) Aircraft and Buggies. 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 .There are college level bodies namely CESA , MESA , ETSA , SCEE ,EESA representing computer , Mechanical , Electronics Telecom , Electrical and Electronics Engg depts respectively. These professional bodies help the students to bridge Industry gap through various activities.The activities include seminars on thrust areas , trainings , projects , internships certifications. . Therefore the syudents are exposed to out of the box thinking and holistic growth.

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) :

0

5.4.4 – Meetings/activities organized by Alumni Association :

1) Webinar on "Scope of Digital Marketing for Engineers" by Ajinkya Kulkarni on 6 June 2020 2) Seminar on "Cyber Security" by Vijay Pandey on 12 March 2020 3) "Convocation Ceremony" on 22 February 2020

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)

There are many practices for which the management encourages decentralization. Following are few practices which are dealt at department level. (I) The

departmental lab requirements are recommended by lab incharges are approved by respective heads .Thereafter these equipments are purchased by our sanstha as per the budget allocated annually. (II) The individual departments are at liberty to choose methods of calculations for CO / PO attainment . The assessments are also decided by individual departments i.e. Formative / Summative except for the University pattern which is common for all. (III) Our institute encourages 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 and 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 premeir educational institute or with eminent Industry .In the year 2018 we signed MOU with VJTI under AICTE, Margdarshan 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 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) (IV) 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. In the year 2018 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 also represented in CHINA in August 2019.The team work was appreciated and stood 3rd amongst 90 teams all over world.

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
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.
Examination and Evaluation	For 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 assesment 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 assesment. We also calculate course outcomes with direct indirect assesment methods to ensure effective learning.
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 and other faculty members give inputs in the syllabus revision process. The revision takes place every 3 years. In addition to the syllabus or the curriculum , we beleive in holistic development of the students .We have formed IQAC for the purpose which also takes suggestions from Industry experts. In Teaching / Learning ,we are following OBE methodolgies and soon will be applying for NBA accreditation.
Teaching and Learning	In Teaching / Learning ,we are following OBE methodolgies and 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 catagory of students. We ensure a perfect blend of classroom teaching and ICT enabled teaching so that the students are motivated all the times. We ensure and provide state of the art lab facilities, Computational facilities, Library and also competent faculty.
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 descretion of the management to meet the needs of

	departments.
Admission of Students	Our admissions are done strictly as per DTE , Govt of Mharashtra mandate as per CET / JEE scores.. The institute comes under linguistic minority catagory (Hini Speaking Minority) therefore 51 students allotted belong to minority . The rest of the students come from diverse backgrounds in CAP allottment process of DTE, Maharashtra .

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

E-governace area	Details
Planning and Development	For planning and development for growth we make use of AICTE portal annually. We also use Mumbai University , DTE Maharashtra , AISHE portals for administrative procedures.
Administration	For liasoning with governing bodies we use their corresponding portals i.e. AICTE , DTE , University OF Mumbai Examination Enrollment of stdents 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..
Student Admission and Support	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 vicea versa. Within campus also digital payments are accepted.
Student Admission and Support	Our admissions are done strictly as per DTE , Govt of Mharashtra mandate as per CET / JEE scores.. The institute comes under linguistic minority catagory (Hini Speaking Minority) therefore 51 students allotted belong to minority . The rest of the students come from diverse backgrounds in CAP allottment process of DTE, Maharashtra . The admissions are facillitated through MHCET portal all over Maharashtra.
Examination	Administration For liasoning with governing bodies we use their corresponding portals i.e. AICTE , DTE , University OF Mumbai Examination Enrollment of stdents 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
2019	Prof Ajay Kashikar	SAE India	SAE	1426
View File				

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)
2019	Fit India -Yoga Session	Same	25/09/2019	29/09/2019	25	8
View File						

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
Enhancing Research Work of Ph.D. aspirants through Systematic Approach Enhancing Research Work of Ph.D. aspirants through Systematic Approach	85	08/06/2020	10/06/2020	3
Virtual Labs for Experiential Learning	67	18/05/2020	18/05/2020	1

Mfg Ship Lift Applications in the realm of Industry 4.0	58	14/06/2020	14/06/2020	1
Industrial Aspects of Thermal Engineering	12	13/06/2020	17/06/2020	5
SAE India Students Competetion	12	05/06/2020	12/06/2020	1
Scope in Automotive Industry	12	05/06/2020	05/06/2020	1
Exploring Research Challenges Opp in Science and Technology	74	27/05/2020	29/05/2020	3
Basic Refrigeration and System Components	12	29/05/2020	29/05/2020	1
ISTL ISPG OF ISHRAE Orientation	12	12/05/2020	12/05/2020	1
ISHRAE -LTCE Chapter Orientation Programme	12	01/06/2020	01/06/2020	1

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
104	120	45	98

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. Sponsorship for PG/Ph.D , Maternity leave concession	Student Council , FestivalsCultural/Sports/Tech , Sponsorship for projects .

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 and submits balance sheet and 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 , The institute also does internal audit during last week of march every year. The accounts department staff and admin staff does the inventory and 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
LTCE Management Other Industry	302000	SAE Car Building Competetion , Other Sponsored projects.
View File		

6.4.3 – Total corpus fund generated

302000

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	Nil	Nil	Yes	Internal Academic Council
Administrative	Nil	Nil	Yes	Management Administration

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

1. FE Induction Programme : On the first day of induction parents of new comers are invited . They are appraised about the institute , faculty student support systems. Also forum is opened for the paretnts to discuss the matters with Principal and other teachers. 2. Convocation Ceremony : On the convocation day the parents are also invited . The toppers and other merit holders are felicitated alongwith students. 3. Departmentwise Parent-Teacher Meetings are arranged and semesterwise , subjectwise toppers are felicitated , atleast once a semester. :

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

1. Yoga Training courses 2. Art of living courses 3 . Lectures by RAMKRISHNA mission monks and others 4. Involvement in online competetive exams.

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

1. Emphasis on research in line with new education policy.Encouragement to Ph.D candidates , emphasis on quality publication scopus /sci indexed , patents. 2. Industry interaction , MOUS , Internships ,Live projects. 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 , Encouragement to startups.

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
2020	Webinar- Exploring research challenges in science technology.	27/05/2020	27/05/2020	29/05/2020	583
2020	Webinar- Enhancing research work of Ph.D. aspirants through systematic approach	08/06/2020	08/06/2020	10/06/2020	5900
2020	Webinar- Industrial aspects of thermal engineering	13/06/2020	13/06/2020	17/06/2020	977
2020	Webinar- Manufacturing ship lift applications in the realm of automation 7 Industry 4.0	14/06/2020	14/06/2020	14/06/2020	425
2020	Project competition online- Tantrayyan 2020	24/03/2020	24/03/2020	24/03/2020	900
2020	Webinar- Virtual labs for experiential learning	18/05/2020	18/05/2020	18/05/2020	3773

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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
Sanstha level Online Quiz on Gender Sensitization .	15/06/2020	18/06/2020	350	275
Women's safety and wellness programme	06/03/2020	06/03/2020	65	12
Social Endeavour-Visit to Kanchan Foundation	07/03/2020	07/03/2020	12	5
Flash Mob Dance -Girl students	09/03/2020	09/03/2020	22	Nil
Cultural Day & Women's Day	11/03/2020	11/03/2020	70	12

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 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. 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	Nil
Provision for lift	Yes	Nil
Ramp/Rails	Yes	Nil
Braille Software/facilities	Yes	Nil
Rest Rooms	Yes	Nil
Scribes for examination	Yes	Nil
Special skill development for differently abled students	Yes	Nil
Any other similar facility	Yes	Nil

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	1	25/09/2019	1	Fit India Movement - Yoga Session	Wellness	25
2019	1	1	14/08/2019	1	Skill Development seminar	Skills development	49
2019	1	1	26/09/2019	1	Bamboo Rakhi	Employment generation	49
2019	1	1	27/09/2019	1	Drug Abuse Cybersecurity	Social Evils	95
2019	1	1	26/12/2019	1	Save Electricity	Conservation of Energy	76
2019	1	1	27/09/2019	1	Social Evils	Tobacco Menace	250
2019	1	1	10/10/2019	1	Social Endeavour	Blood donation	110
2019	1	1	25/12/2019	6	Social Endeavour	Rural Development	26

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

Title	Date of publication	Follow up(max 100 words)
NA	31/05/2020	NA

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Blood donation drive - On LTJSS founders day	10/10/2019	10/10/2019	110
NSS Residential Camp in Village	25/09/2019	30/09/2019	26
Seminar - Tobacco Menace	27/09/2019	27/09/2019	250
Seminar- Save Electricity	26/09/2019	26/09/2019	76

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

The following green 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. ewaste 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

Following best practices followed by LTCE have contributed towards the achievement of the vision / mission and objectives as well as improvement of quality of under graduates of LTCE. These activities have also served the purpose of socio-economic 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 socio-economic development inclusivity. ? To add value to the student performance. The Context • Engineers seem to thrive on competition at student level due to resonant energy present inside them. This is in reference to provide platform for students to show their intellectual skills and talent in the events organised at National and International levels. • To develop techno-commercial acumen in the learner. • To develop inquisitiveness about how stuff works and develop penchant for research. • The students learn the whole gamut of designing , developing fabricationg the vehicle testing of integrity under static / dynamic conditions. 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 . The students have to qualify the virtual design competetion first then they are allowed to make a prototype. On qualifying in virtual design they are given an engine of 500 cc . The students have to develop / build all terrain vehicle which is tested in static / dynamic events. Similarly ROBOCON gives theme every year . Students have to design develop the robot in line with the theme . 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. Mnay passionate students have been appointed by companies like Mahindra Mahindra Ltd. . Some students have pursued higher education in the fiels 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 partcipate in SAE CHINA competetion 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 and Bhoumik Momaya have been appointed as liason officers for SAE CHINA for internationalising the competetion. Shubham Mhapankar has joined Oxford university to pursue masters in Motosports. 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 26-29th 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 :

- a) Unavailability of space for vehicle / robot testing
- b) Sponsorships for the events
- c) Last hour maintenance problems..

Best Practice 2 . 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.

Context : ? Improvement in CO attainment ? Improvement in results ? Improvement in Placements ? Students learn how to connect dots. The 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 e-books. Introduction of google classrooms 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 :

- a) Students get less time for extra cocurricular activities due to continuous evaluation
- b) Faculty is also busy and gets less time for research
- c) Adopting to newer teaching pedagogies is a challage.

The Year 2019-20 was more or less eclipsed by Covid-19 pandemic , therefore the planned activities could not be conducted. The management had sanctioned a budget of Rs 2.50 lakh for SAE car building competition.

Eventhough the activities were planned in odd term of 2019-20 i.e. July to October 2019 , the proposed competitions were in the even term i.e. January to April 2020. Therefore the students could not participate.

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

https://ltce.in/assets/pdf/Best_Practices_2019-20.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

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 12/30/2019 [https://assessmentonline.naac.gov.in/public/index.php/postaccreditation/aqarFilledData/eyJpdiI6Ikk0MGN0blRjYjUrMnVGWGNmSj... 23/23](https://assessmentonline.naac.gov.in/public/index.php/postaccreditation/aqarFilledData/eyJpdiI6Ikk0MGN0blRjYjUrMnVGWGNmSj...) 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 bharat 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 actvities 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 LTCE Marathi 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

<https://ltce.in/>

8.Future Plans of Actions for Next Academic Year

8. Future Plans of Action for next academic Year : We are gearing up for the future ready campus by 2020-21. We are introducing new courses in the emerging areas as under , in line with Industry 4.0 requirements. ? Computer Science and Engineering (Data Science) ? Computer Science and Engineering (Artificial Intelligence and Machine Learning) ? Computer Science and Engineering (IoT and Cyber Security including Blockchain Technology) At LTCE we are committed to improve the quality of technical education imparted , in line with our vision , mission statements .

1. Outcome based and learner centric education in line with Washington Accord .We have been maintaining the CO / PO / PSO / PEO 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. Upgrading of 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 status .We have already applied for permanent affiliation . Next steps will be taken soon when we get permanent affiliation status.