



## YEARLY STATUS REPORT - 2022-2023

### Part A

#### Data of the Institution

<b>1.Name of the Institution</b>	LOURDES MATHA COLLEGE OF SCIENCE AND TECHNOLOGY
• Name of the Head of the institution	Dr. BESHIBA WILSON
• Designation	Principal
• Does the institution function from its own campus?	Yes
• Phone no./Alternate phone no.	04722853550
• Mobile no	9447729207
• Registered e-mail	principal@lmcst.ac.in
• Alternate e-mail	beshiba.wilson@lmcst.ac.in
• Address	Lourdes Hills, Kuttichal P.O.
• City/Town	Thiruvananthapuram
• State/UT	Kerala
• Pin Code	695574
<b>2.Institutional status</b>	
• Affiliated /Constituent	Affiliated
• Type of Institution	Co-education
• Location	Rural

• Financial Status	<b>Self-financing</b>				
• Name of the Affiliating University	<b>A.P.J. Abdul Kalam Technological University</b>				
• Name of the IQAC Coordinator	<b>Dr. Sunil J</b>				
• Phone No.	<b>04722853550</b>				
• Alternate phone No.	<b>9074401602</b>				
• Mobile	<b>9074041981</b>				
• IQAC e-mail address	<b>iqac@lmcst.ac.in</b>				
• Alternate Email address	<b>dr.sunilj@lmcst.ac.in</b>				
<b>3.Website address (Web link of the AQAR (Previous Academic Year)</b>	<a href="https://lmcst.ac.in/wp-content/uploads/2022/07/SSR.pdf">https://lmcst.ac.in/wp-content/uploads/2022/07/SSR.pdf</a>				
<b>4.Whether Academic Calendar prepared during the year?</b>	<b>Yes</b>				
• if yes, whether it is uploaded in the Institutional website Web link:	<a href="https://lmcst.ac.in/academic-calendar/">https://lmcst.ac.in/academic-calendar/</a>				
<b>5.Accreditation Details</b>					
Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
<b>Cycle 1</b>	<b>B+</b>	<b>2.52</b>	<b>2022</b>	<b>11/10/2022</b>	<b>10/10/2027</b>
<b>6.Date of Establishment of IQAC</b>			<b>10/10/2017</b>		
<b>7.Provide the list of funds by Central / State Government UGC/CSIR/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.,</b>					
Institutional/Department /Faculty	Scheme	Funding Agency	Year of award with duration	Amount	
<b>Computer Science &amp; Engineering</b>	<b>Project Funding</b>	<b>Kerala Startup Mission</b>	<b>2023 (1 year)</b>	<b>2 lakhs</b>	
<b>8.Whether composition of IQAC as per latest NAAC guidelines</b>			<b>Yes</b>		
• Upload latest notification of formation of			<a href="#">View File</a>		

IQAC		
<b>9.No. of IQAC meetings held during the year</b>	<b>4</b>	
<ul style="list-style-type: none"> <li>Were the minutes of IQAC meeting(s) and compliance to the decisions have been uploaded on the institutional website?</li> </ul>	<b>No</b>	
<ul style="list-style-type: none"> <li>If No, please upload the minutes of the meeting(s) and Action Taken Report</li> </ul>	<a href="#">View File</a>	
<b>10.Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>	<b>No</b>	
<ul style="list-style-type: none"> <li>If yes, mention the amount</li> </ul>		
<b>11.Significant contributions made by IQAC during the current year (maximum five bullets)</b>		
1. Collecting and Evaluation of Self-Appraisal Report		
2. Preparation of reports for NAAC		
3. Periodical Academic and Administrative Audits.		
4. Contribution towards NBA Accreditation Processes.		
<b>12.Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year</b>		
Plan of Action	Achievements/Outcomes	
Maintenance of quality as per NAAC Parameters	All the related activities done in context to AQAR submission	
To establish the Memorandum of Understanding.	The Institution has signed (11) MoUs with Industries to build Industry Instituted Partnership	
Organizing Workshop	Workshop for staff members about OBE and NBA	
To conduct Academic Audit.	The Academic audit is being conducted periodically.	

<b>13. Whether the AQAR was placed before statutory body?</b>	<b>Yes</b>
<ul style="list-style-type: none"> <li>Name of the statutory body</li> </ul>	
Name	Date of meeting(s)
Internal Quality Assurance Cell	20/10/2023
<b>14. Whether institutional data submitted to AISHE</b>	
Year	Date of Submission
2021-2022	08/02/2023
<b>15. Multidisciplinary / interdisciplinary</b>	
<p>The objective of the minor programme offered is to permit a student to customize the Engineering degree of students to suit their specific interests. Upon completion of an Engineering Minor, a student will be better equipped to perform interdisciplinary research and will be better employable. Engineering Minors allow a student to gain interdisciplinary experience and exposure to concepts and perspectives that may not be a part of their major degree programs. Minor programme is offered by all the branches of B.Tech. In addition to the Minor programme, the courses like Sustainable Engineering, Design Engineering, Professional Ethics, Professional Communication, Constitution of India and Programming in C are provided to all B.Tech students. We encourage our students to do interdisciplinary projects.</p>	
<b>16. Academic bank of credits (ABC):</b>	
<p>Minor is an additional credential a student may earn if she/he does 20 credits worth of additional learning in a discipline other than her/his major discipline of B.Tech. degree. Honors is an additional credential a student may earn if she/he opts for the extra 20 credits needed for this in her/his own discipline. The semester-wise credit distribution for B.Tech is S1 (17), S2(21), S3(22), S4 (22), S5(23), S6 (23), S7(15) and S8 (17) with total mandatory credits of 162. There are two credits for activity points. There is an additional 20 credit requirement for Minor and Honours programme separately. The semester wise credit distribution of MCA is S1(22), S2(22), S3(22) and S4 (20) with total mandatory credits of 86 The semester wise credit distribution of MBA is S1(27), S2(24), S3(26) and S4 (25) with total mandatory credits of 102 The semester wise</p>	

credit distribution of M.Tech is S1(22), S2(19), S3(14) and S4 (12) with total mandatory credits of 67.

#### **17.Skill development:**

Soft skill development programmes in Verbal/nonverbal reasoning, General Aptitude, Logical reasoning and Career guidance and placement training are conducted frequently. Eminent lectures of industry experts are arranged for students. Addon courses, internships and industrial visits are arranged for skill development. Additional lab experiments are conducted for increasing the computing skills. Language lab courses enhance communication skills.

#### **18.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)**

1. Prominent lectures and videos on yoga and meditation under supervision 2.Special awareness lectures on the constitution of India 3. Explanation of critical concepts in both English and Mother tongue. 4.Special celebration of local and national festivals 5.Value-added courses on Indian culture, patriotism, unity in diversity

#### **19.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):**

Outcome-Based Education (OBE) is a student-centric teaching and learning methodology in which the course delivery, assessment is planned to achieve stated objectives and outcomes. It focuses on measuring student performance i.e. outcomes at different levels. It is considered a giant leap forward to improve technical education in India and help Indian Engineers compete with their global counterparts. Following are the keypoints of outcomebased education: 1.Result oriented 2.Objective based for the project 3.Resource skill level focused 4.Build specific implementation goals 5.Quantitative and measurable 6.Mixed mode learning - formal, social , On-the-Job.

#### **20.Distance education/online education:**

1.Spoken tutorial courses by IIT Bombay and other MOOC courses are flexible ways to learn new skills. 2.Online education provides increased convenience and flexibility. 3.Pedagogical techniques must be adopted to enhance student-teacher interaction. 4.Uploading of video recordings of classes in CMS enables students to revise the classes and also helps the students with poor internet connectivity to learn the missed classes 5.Examinations are also conducted through online mode.

### **Extended Profile**

<b>1.Programme</b>	
1.1 Number of courses offered by the institution across all programs during the year	<b>261</b>
<b>File Description</b>	<b>Documents</b>
Data Template	<a href="#">View File</a>
<b>2.Student</b>	
2.1 Number of students during the year	<b>911</b>
<b>File Description</b>	<b>Documents</b>
Institutional Data in Prescribed Format	<a href="#">View File</a>
2.2 Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	<b>435</b>
<b>File Description</b>	<b>Documents</b>
Data Template	<a href="#">View File</a>
2.3 Number of outgoing/ final year students during the year	<b>254</b>
<b>File Description</b>	<b>Documents</b>
Data Template	<a href="#">View File</a>
<b>3.Academic</b>	
3.1 Number of full time teachers during the year	<b>100</b>
<b>File Description</b>	<b>Documents</b>
Data Template	<a href="#">View File</a>
3.2	<b>84</b>

Number of sanctioned posts during the year	
File Description	Documents
Data Template	<a href="#">View File</a>
<b>4.Institution</b>	
4.1 Total number of Classrooms and Seminar halls	57
4.2 Total expenditure excluding salary during the year (INR in lakhs)	312.5
4.3 Total number of computers on campus for academic purposes	318
<b>Part B</b>	
<b>CURRICULAR ASPECTS</b>	
<b>1.1 - Curricular Planning and Implementation</b>	
1.1.1 - The Institution ensures effective curriculum delivery through a well planned and documented process	
<p>LMCST was established in the year 2002 and is approved by the Government of Kerala and AICTE and is affiliated to the APJ Abdul Kalam Technological University.</p> <p><b>Curriculum Planning:</b></p> <p>At the beginning of every academic year, each Heads of the departments (HOD) conducts meetings for curriculum planning and delivery and forwards the recommendation of dates for academic calendar to IQAC. The Principal conducts college council meetings with HODs and finalizes the academic calendar proposed by IQAC. IQAC Audit team audits the course files, Department-specific files , and Staff Advisor specific files twice every semester.</p> <p><b>Curriculum Delivery:</b></p> <p>LMCST has 9 ICT-enabled classrooms. LMCST conducts orientation programs, Induction programs and bridge courses for 1st-year students .Various add-on courses, training and certification programs, case studies, industrial visits are conducted for all</p>	

students to make them industry-ready. The curriculum gaps are bridged through alumni talks, guest lectures and workshops. Every faculty member is assigned a group of students for mentoring throughout the course. The college encourages faculty to participate in faculty development programs and workshops, to present papers in seminars and conferences. Timely feedback is obtained from the students and staff. Measures are taken to enforce necessary changes by the HODs and Principal.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
Link for Additional information	<a href="http://lmcst.ac.in/wp-content/uploads/2024/04/1.1.1-Additional-information-.docx-1.pdf">http://lmcst.ac.in/wp-content/uploads/2024/04/1.1.1-Additional-information-.docx-1.pdf</a>

1.1.2 - The institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE)

The institution adheres to the university given time line for the conduct of Continuous Internal Evaluation (CIE) system. Before the commencement of every academic year, the important dates for the conduct of academic activities are discussed in departmental meetings and suggestions are forwarded to the IQAC. The academic calendar is prepared as per the suggestions from the departments and is approved by the Principal in consultation with the HODs. The students' academic progress is monitored regularly through continuous internal evaluation, seminars, project work, series tests and end semester examinations. The time tables are prepared and implemented before the start of each semester in accordance with the academic calendar. The schedule of external examination is published by the University and the same is notified to the students. The Principal and IQAC team conducts curricular and extracurricular review meetings on a regular basis to check the implementation and progress of all the activities in the academic calendar. In addition the internal audit conducted by IQAC ensures compliance to verify with documentary evidence. Based on these review meetings some changes in schedules of activities are made if required. Along with continuous internal evaluation, Academic Planning contains information regarding the Curriculum Activities and Extra-curricular activities.



File Description	Documents
Upload relevant supporting document	No File Uploaded
Link for Additional information	<a href="https://lmcst.ac.in/academic-calendar/">https://lmcst.ac.in/academic-calendar/</a>

**1.1.3 - Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the year. Academic council/BoS of Affiliating University Setting of question papers for UG/PG programs Design and Development of Curriculum for Add on/ certificate/ Diploma Courses Assessment /evaluation process of the affiliating University**

**B. Any 3 of the above**

File Description	Documents
Details of participation of teachers in various bodies/activities provided as a response to the metric	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

## 1.2 - Academic Flexibility

**1.2.1 - Number of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented**

**1.2.1.1 - Number of Programmes in which CBCS/ Elective course system implemented**

10

File Description	Documents
Any additional information	<a href="#">View File</a>
Minutes of relevant Academic Council/ BOS meetings	<a href="#">View File</a>
Institutional data in prescribed format (Data Template)	<a href="#">View File</a>

**1.2.2 - Number of Add on /Certificate programs offered during the year**

**1.2.2.1 - How many Add on /Certificate programs are added during the year. Data requirement**

**for year: (As per Data Template)****12**

File Description	Documents
Any additional information	<a href="#">View File</a>
Brochure or any other document relating to Add on /Certificate programs	No File Uploaded
List of Add on /Certificate programs (Data Template )	<a href="#">View File</a>

**1.2.3 - Number of students enrolled in Certificate/ Add-on programs as against the total number of students during the year****646**

File Description	Documents
Any additional information	<a href="#">View File</a>
Details of the students enrolled in Subjects related to certificate/Add-on programs	<a href="#">View File</a>

**1.3 - Curriculum Enrichment****1.3.1 - Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum**

The institution has taken all efforts to integrate cross-cutting issues into the curriculum and students are nurtured to develop noble virtues like gender equity and consistency in academics. The institution follows the curriculum of APJ Abdul Kalam Technological University (KTU).

The value of gender equity needs to be integrated into the learning process through the curriculum. Courses related to the following ensures that the cross cutting issues are addressed.

**Constitution of India**

This course helps students to study their own country's constitution as well as understand their own human rights. It gives the knowledge and strength to face society and people.

**Environment Sustainability:**

In today's world, technology has constructive results as well as an adverse impact on our environment. KTU has introduced various courses to inculcate in students an awareness of environmental issues and the global initiatives towards attaining sustainability.

**Human Values and Professional Ethics**

Modern technologies are an integral part of the developed world and these technologies are influencing human values and professional ethics greatly. The institution conducts various activities and programs to build value systems, professional ethics, good citizenry skills, leadership qualities, and the sense of being honest and practicing equity, equality, and nurturing respect for each other.

File Description	Documents
Any additional information	<a href="#">View File</a>
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	<a href="#">View File</a>

**1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year**

11

File Description	Documents
Any additional information	<a href="#">View File</a>
Programme / Curriculum/ Syllabus of the courses	<a href="#">View File</a>
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	No File Uploaded
MoU's with relevant organizations for these courses, if any	No File Uploaded
Institutional Data in Prescribed Format	<a href="#">View File</a>

**1.3.3 - Number of students undertaking project work/field work/ internships**

744

File Description	Documents
Any additional information	No File Uploaded
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	<a href="#">View File</a>

**1.4 - Feedback System**

**1.4.1 - Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders Students Teachers Employers Alumni**

File Description	Documents
URL for stakeholder feedback report	<a href="https://lmcst.ac.in/analysis-of-feedback/">https://lmcst.ac.in/analysis-of-feedback/</a>
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	No File Uploaded
Any additional information	<a href="#">View File</a>

**1.4.2 - Feedback process of the Institution may be classified as follows**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
URL for feedback report	<a href="https://lmcst.ac.in/analysis-of-feedback/">https://lmcst.ac.in/analysis-of-feedback/</a>

**TEACHING-LEARNING AND EVALUATION****2.1 - Student Enrollment and Profile****2.1.1 - Enrolment Number Number of students admitted during the year****2.1.1.1 - Number of students admitted during the year**

273

File Description	Documents
Any additional information	<a href="#">View File</a>
Institutional data in prescribed format	<a href="#">View File</a>

**2.1.2 - Number of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy during the year (exclusive of supernumerary seats)**

**2.1.2.1 - Number of actual students admitted from the reserved categories during the year**

101

File Description	Documents
Any additional information	<a href="#">View File</a>
Number of seats filled against seats reserved (Data Template)	<a href="#">View File</a>

## 2.2 - Catering to Student Diversity

2.2.1 - The institution assesses the learning levels of the students and organizes special Programmes for advanced learners and slow learners

**Assessment of learning levels:** The students are of two categories - slow learners and advanced learners and are categorized as given below:

**Entry-level:** The college offers a two-week induction program for new students, covering institution orientation, curricular activities, rules, communication, personality development, time management, motivation, and creative skills, provide guidance and continuous monitoring of student progress through entry-level assessment results, cross-checked with internal examinations and offers orientation programs, bridge courses, continuous evaluation and tests categorizing first-year students into slow(<50% marks) and advanced(>50% marks) learners with toppers awarded.

**II/III/IV Year Students** - Based on the academic calendar, the internal exams are conducted twice in a semester for the II/III/IV year students, they are categorized as under:

**Slow Learners:** Less than 50% marks

**Advanced Learners: Above 50% marks.**

The HOD approves remedial and extra classes for slow learners, using evaluation methods like tutorials and tests, to maintain a strong parent-teacher bond through regular meetings, performance evaluations, and appreciation for meritorious students.

Advanced learners, identified through internal assessment and semester marks, are encouraged to achieve university ranks, participate in professional bodies, enhance skills through training, innovative projects, publications, and government funding applications, and are advised to learn Honours and Minor programs of KTU.

File Description	Documents
Paste link for additional information	<a href="https://lmcst.ac.in/wp-content/uploads/2024/02/2.2.1-Supporting-Proof.pdf">https://lmcst.ac.in/wp-content/uploads/2024/02/2.2.1-Supporting-Proof.pdf</a>
Upload any additional information	<a href="#">View File</a>

### 2.2.2 - Student- Full time teacher ratio (Data for the latest completed academic year)

Number of Students	Number of Teachers
869	91

File Description	Documents
Any additional information	<a href="#">View File</a>

### 2.3 - Teaching- Learning Process

2.3.1 - Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

The college aims to enhance students' technical knowledge through student-centric methods to implement OBE like experiential learning, participatory learning, and problem-solving, fostering critical thinking and creative imagination.

The students are provided with lab experiments based on the curriculum set by the university through Experiential Learning.

Additional Lab experiments include plumbing, sheet metal, casting, welding, carpentry, foundry works, industry-oriented training with

CNC machines, lathe operations, Logix Pro, ladder logic, MATLAB, Rockwell hardness test, and Programming in C and OOP using Java.

Library e-resources offer a comprehensive collection of materials to meet the educational and research needs of scholars, staff, faculty, administration, and users.

Two annual industrial visits are planned to offer hands-on experience and exposure to the latest technologies through practical implementation.

Student Internships encourage students in relevant industries to gain practical experience in technology.

Placement-related Learning enhances student employability skills for achieving good placement in various Industries.

Technical Activities (Hands-on workshops, Seminars, Eminent, Lecture series, Department association activities, Session quizzes, Debates, Conferences, Roleplay, Mind mapping, Industry connect, Alumni interactions, etc.) are organized by the institution.

Students learn problem-solving methods through observation, understanding, analysis, interpretation, and application, while tutorial hours facilitate extra problems and previous year's question papers through brainstorming sessions.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Link for additional information	<a href="https://lmcst.ac.in/wp-content/uploads/2024/02/2.3.1_Additional.pdf">https://lmcst.ac.in/wp-content/uploads/2024/02/2.3.1_Additional.pdf</a>

2.3.2 - Teachers use ICT enabled tools for effective teaching-learning process. Write description in maximum of 200 words

The institution uses innovative teaching methods using ICT-enabled tools.

Facilities include 13 ICT-enabled classrooms, 1 Smart classroom, 4 seminar halls, and a media room.

Virtual classrooms and virtual labs increase student involvement. Concept-based animated videos enhance learning. NPTEL integration

provides additional courseware. Experiential learning methods enhance practical knowledge.

Online Vidyalaya platform contains recorded videos, lecture notes, and quizzes. CMS manages course information.

Webinars enhance student interaction, spoken tutorials promote IT literacy, and MOOC resources provide quality education through online access to the best content.

Online tools such as Mentimeter and Quizizz - Quizzes (<https://www.mentimeter.com/>) Crosswordlab - Interactive learning ([www.crosswordlab.com](http://www.crosswordlab.com)) Proprofs - crossword puzzles, Hangman puzzles and scramble word are used for gamified and Interactive online teaching.

Websites created using WordPress by faculty members, Technology Enabled Learning (ASAP online courses, Skill Delivery Platform Kerala, and National Educational Alliance for Technology partnering with industry resources) are also used as learning resources.

DELNET provides access to digital library resources in South Asia.

The IQAC helps in developing quality at the institutional level like policy design support to the organization and internal quality assurance systems, program monitoring, teaching and learning support

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	<a href="#">View File</a>

**2.3.3 - Ratio of mentor to students for academic and other related issues (Data for the latest completed academic year )**

**2.3.3.1 - Number of mentors**

58



File Description	Documents
Upload, number of students enrolled and full time teachers on roll	<a href="#">View File</a>
Circulars pertaining to assigning mentors to mentees	<a href="#">View File</a>
Mentor/mentee ratio	<a href="#">View File</a>

## 2.4 - Teacher Profile and Quality

### 2.4.1 - Number of full time teachers against sanctioned posts during the year

91

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
List of the faculty members authenticated by the Head of HEI	<a href="#">View File</a>

### 2.4.2 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.B Superspeciality / D.Sc. / D.Litt. during the year (consider only highest degree for count)

#### 2.4.2.1 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.C Superspeciality / D.Sc. / D.Litt. during the year

16

File Description	Documents
Any additional information	<a href="#">View File</a>
List of number of full time teachers with Ph. D. / D.M. / M.Ch./ D.N.B Super specialty / D.Sc. / D.Litt. and number of full time teachers for year (Data Template)	<a href="#">View File</a>

### 2.4.3 - Number of years of teaching experience of full time teachers in the same institution (Data for the latest completed academic year)

#### 2.4.3.1 - Total experience of full-time teachers

708

File Description	Documents
Any additional information	No File Uploaded
List of Teachers including their PAN, designation, dept. and experience details(Data Template)	<a href="#">View File</a>

## 2.5 - Evaluation Process and Reforms

2.5.1 - Mechanism of internal assessment is transparent and robust in terms of frequency and mode. Write description within 200 words.

LMCST has adopted different mechanisms and established a centralized "series exam cell" at the institutional level, which contains at least one member from each department to maintain transparency and robustness. The frequency of internal assessment is as required by KTU.

### Mechanism of Summative Assessment

The university publishes an academic calendar, which includes assessment dates, rules, and regulations. Internal assessments are conducted twice a semester for theory subjects, while continuous assessments for practical assignments follow university norms. Question papers are prepared by faculty and approved by the HOD. Final-year students are assessed through technical seminars and major projects. The Department committee evaluates these projects. The Project Assessment Board evaluates progress. Biweekly reviews are conducted by the project supervisor for 20% marks. Project panels are uploaded to the KTU Web portal. Comprehensive viva voce is assessed through written and oral examinations.

Formative Assessment methods include group discussions and quizzes which prepare students for placements, exams, and interviews. Brainstorming ideas aid in product development with IEDC. Industrial visits connect industrial practices with academic learning, club activities improve soft skills. Module-wise tests identify potential and improve exam performance.

Tutorial works assess problem observation, analysis, and interpretation. Seminar presentations assess passion, knowledge, and presentation skills.

File Description	Documents
Any additional information	<a href="#">View File</a>
Link for additional information	<a href="https://lm.campus7.in/">https://lm.campus7.in/</a>

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

LMCST follows the academic calendar and has a grievance committee, composed of senior faculty and department teachers, responsible for resolving examination-related issues efficiently.

Grievance Redressal is done as follows:

The "series and university examination cells" are confidential sections that ensure smooth exams, maintain student records, and coordinate with KTU for efficiency and handling exam-related queries confidentially.

The organization effectively manages internal assessments, committee meetings, and university exams, promptly reporting grievances to advisors and Principals, and considering genuine absences for retests.

Students' representation will be sent to the university after exams, and any issues with question papers, such as out of syllabus, repeated questions, missed marks, or incorrect weightage will be addressed.

The university promptly addresses student grievances and publishes them on its website, while question papers are collected, scrutinized by senior faculty, and finalized by the question paper-setting committee.

Students can request revaluation or scrutiny of answer scripts if they are not satisfied with their results. The process involves submitting the requisite fee and submitting the answer scripts. The final mark is the best of the two, with a 15% difference between the revaluation and original valuation. If the difference is less than 15%, the original mark is retained.

File Description	Documents
Any additional information	<a href="#">View File</a>
Link for additional information	<a href="https://lmcst.ac.in/wp-content/uploads/2024/02/2.5.2_Additional.pdf">https://lmcst.ac.in/wp-content/uploads/2024/02/2.5.2_Additional.pdf</a>

## 2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.

### Preparation and Dissemination of Program Outcomes

Program Specific Outcomes and Course Outcome Outcome-Based Education (OBE) emphasize student expectations and performance measurement. OBE is mandatory for regulating bodies (NBA, NAAC, and Accreditation Councils). Departments prepare Program Specific Outcomes, which are defined by AICTE and advisory committees. The finalization of PSOs (approved by IQAC) and POs is reviewed by the advisory board, and course outcomes are defined by faculty and approved by the Head of Department.

If there is any gap between Program Specific Outcomes and Course Outcomes, special training sessions will be arranged for the students to fill the gap.

The procedure for preparing program-specific outcomes and course-specific outcomes.

The institution's Departments establish Program Specific Outcomes (PSOs) based on AICTE's Program Outcomes (POs). These are finalized by the Department Advisory Committee and the HoD. Course outcomes outline essential disciplinary knowledge and learning depth. Course instructors formulate these outcomes, which are approved by HODs, and IQAC and disseminated to students and faculty.

The institution publishes Program Specific Outcomes (PSOs), Program Outcomes (POs), and Course Outcomes (COs) for all courses on its website. These are displayed in various locations, discussed in student induction programs, and communicated through internal and assignment test question papers.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for Additional information	Nil
Upload COs for all Programmes (exemplars from Glossary)	<a href="#">View File</a>

### 2.6.2 - Attainment of Programme outcomes and course outcomes are evaluated by the institution.

Course Outcomes (COs), Program Outcomes (POs), and Program Specific Outcomes (PSOs) are obtained by finalizing COs for each course, with faculty members assessing correlations on a scale of 1 to 3 (1 slight (low), 2 - moderate (medium), 3 - significant (high)). A mapping matrix for each subject, and a committee reviews CO's and their mapping to POs regularly. The final PO attainment equal to 80% of direct attainment and 20% indirect attainment. Target levels for achieving POs/PSOs are set based on previous year's performance.

Direct PO Attainment = Sum of average attainment level of CO's mapped to PO / Total number of courses. Indirect Attainment considers students' feedback on framed questionnaires. The five target levels are

Level1(Poor):  $0.5 \leq \text{POattainment value} < 1$

Level2(Average):  $1 \leq \text{POattainment value} < 1.5$

Level3(Good):  $1.5 \leq \text{POattainment value} < 2$

Level4(Very Good):  $2 \leq \text{POattainment value} < 2.5$

Level5(Excellent):  $2.5 \leq \text{POattainment value} \leq 3$

The attainment of POs/PSOs is determined by previous year's performance, with direct and indirect assessment. Direct attainment of CO is 16% of internal examination attainment, 64% in external examination, and 20% course exit feedback and indirect feedback. Overall attainment is 80% direct method and 20% indirect method.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for Additional information	<a href="http://lmcst.ac.in/wp-content/uploads/2024/04/CO-PO.pdf">http://lmcst.ac.in/wp-content/uploads/2024/04/CO-PO.pdf</a>

### 2.6.3 - Pass percentage of Students during the year

#### 2.6.3.1 - Total number of final year students who passed the university examination during the year

163

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Paste link for the annual report	<a href="https://lmcst.ac.in/e-newsletter/">https://lmcst.ac.in/e-newsletter/</a>

### 2.7 - Student Satisfaction Survey

#### 2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire) (results and details need to be provided as a weblink)

<http://lmcst.ac.in/wp-content/uploads/2024/02/Student-Satisfaction-Survey-Response-sheet.xlsx-Form-Responses-1.pdf>

### RESEARCH, INNOVATIONS AND EXTENSION

#### 3.1 - Resource Mobilization for Research

##### 3.1.1 - Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

##### 3.1.1.1 - Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

2

File Description	Documents
Any additional information	No File Uploaded
e-copies of the grant award letters for sponsored research projects /endowments	<a href="#">View File</a>
List of endowments / projects with details of grants(Data Template)	<a href="#">View File</a>

### 3.1.2 - Number of teachers recognized as research guides (latest completed academic year)

#### 3.1.2.1 - Number of teachers recognized as research guides

1

File Description	Documents
Any additional information	<a href="#">View File</a>
Institutional data in prescribed format	<a href="#">View File</a>

### 3.1.3 - Number of departments having Research projects funded by government and non government agencies during the year

#### 3.1.3.1 - Number of departments having Research projects funded by government and non-government agencies during the year

1

File Description	Documents
List of research projects and funding details (Data Template)	<a href="#">View File</a>
Any additional information	No File Uploaded
Supporting document from Funding Agency	<a href="#">View File</a>
Paste link to funding agency website	<a href="https://startupmission.kerala.gov.in/">https://startupmission.kerala.gov.in/</a>

## 3.2 - Innovation Ecosystem

3.2.1 - Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

**Innovation Ecosystem**

LMCST nurtures an innovation ecosystem through the following Cells:

**Research Cell:**

Research Cell established in 2018 maintains quality of research publications by using plagiarism checker software. IPR cell provides support regarding patents. LMCST Journal of Engineering and Technology (ISSN 2278-2672) is an annual journal published by the Research Cell for faculty and students.

**Innovation and Entrepreneurship Development Cell (IEDC)**

The IEDC established in 2017, an initiative of Kerala Startup Mission for skill development via seminars, workshops and hands-on training programs

**Intellectual Property Rights (IPR) Cell**

IPR cell guards the intellectual property rights of incubates faculty & students. Primary evaluation of two patents submitted by faculty member is granted.

**Technical Incubation Centre (TIC)**

Every department is equipped with a TIC to motivate the students to come up with innovative projects during their final year.

**Initiatives for creation and transfer of knowledge:**

**Industry Institute Interaction Cell**

Meetings are conducted with CEOs and Entrepreneurs to discuss industry-related activities. Students are encouraged to enroll in MOOC courses of Swayam, NPTEL and spoken tutorials of IIT Bombay (five-star rated RC)

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://lmcst.ac.in/IEDC%20Cell/">https://lmcst.ac.in/IEDC%20Cell/</a>

**3.2.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the year**



**3.2.2.1 - Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during the year****24**

File Description	Documents
Report of the event	<a href="#">View File</a>
Any additional information	No File Uploaded
List of workshops/seminars during last 5 years (Data Template)	<a href="#">View File</a>

**3.3 - Research Publications and Awards****3.3.1 - Number of Ph.Ds registered per eligible teacher during the year****3.3.1.1 - How many Ph.Ds registered per eligible teacher within the year****1**

File Description	Documents
URL to the research page on HEI website	<a href="https://lmcst.ac.in/">https://lmcst.ac.in/</a>
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc (Data Template)	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**3.3.2 - Number of research papers per teachers in the Journals notified on UGC website during the year****3.3.2.1 - Number of research papers in the Journals notified on UGC website during the year****25**

File Description	Documents
Any additional information	<a href="#">View File</a>
List of research papers by title, author, department, name and year of publication (Data Template)	<a href="#">View File</a>

**3.3.3 - Number of books and chapters in edited volumes/books published and papers published**

**in national/ international conference proceedings per teacher during the year****3.3.3.1 - Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during year**

10

File Description	Documents
Any additional information	No File Uploaded
List books and chapters edited volumes/ books published (Data Template)	<a href="#">View File</a>

**3.4 - Extension Activities**

3.4.1 - Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the year

LMCST has NSS and NCC for doing charity activities for society

**NSS**

The National Service Scheme has two units. No 525 has 37 students and No 529 has 40 students in LMCST. Students are made aware of the importance of blood donations, cleanliness, plastic, water conservation, farming, use of drugs and cancer detection. The NSS cell conducts special camps for our students.

NSS cell Activities for 2022-2023 are as follows

1. LED distribution in Kattakada
2. Vettukad Beach cleaning
3. Electoral Literacy - linking aadhaar and voters ID
4. Camp activities includes Blood donation database, Health Card, Awareness on Drugs

**NCC**

A dedicated Army wing of cadet strength 80, under 3(K) BN NCC, Poojappura promoted following Activities for 2022-2023 :

1. Celebrated Environment day by planting trees in homes of NCC members

**2. Independence Day Celebration****3. Gaurd of Honour for a Minister**

**4. Secured 98% and 100% result for C-Certificate and B-Certificate exam conducted by 3K BN NCC.**

**5. Kailas A K of S6 civil attended ALC 2023 at Coimbatore.**

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

**3.4.2 - Number of awards and recognitions received for extension activities from government / government recognized bodies during the year****3.4.2.1 - Total number of awards and recognition received for extension activities from Government/ Government recognized bodies year wise during the year**

0

File Description	Documents
Any additional information	No File Uploaded
Number of awards for extension activities in last 5 year (Data Template)	No File Uploaded
e-copy of the award letters	No File Uploaded

**3.4.3 - Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., ( including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organized in collaboration with industry, community and NGOs ) during the year****3.4.3.1 - Number of extension and outreach Programs conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the year**

4

File Description	Documents
Reports of the event organized	<a href="#">View File</a>
Any additional information	No File Uploaded
Number of extension and outreach Programmes conducted with industry, community etc for the during the year (Data Template)	<a href="#">View File</a>

### 3.4.4 - Number of students participating in extension activities at 3.4.3. above during year

#### 3.4.4.1 - Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year wise during year

211

File Description	Documents
Report of the event	<a href="#">View File</a>
Any additional information	No File Uploaded
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	<a href="#">View File</a>

### 3.5 - Collaboration

#### 3.5.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship during the year

##### 3.5.1.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year wise during the year

1

File Description	Documents
e-copies of related Document	<a href="#">View File</a>
Any additional information	No File Uploaded
Details of Collaborative activities with institutions/industries for research, Faculty	<a href="#">View File</a>

#### 3.5.2 - Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the year

**3.5.2.1 - Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year wise during the year**

9

File Description	Documents
e-Copies of the MoUs with institution./ industry/corporate houses	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Details of functional MoUs with institutions of national, international importance, other universities etc during the year	<a href="#">View File</a>

**INFRASTRUCTURE AND LEARNING RESOURCES****4.1 - Physical Facilities**

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.

LMCST has a 25-acre campus with adequate physical infrastructure to meet the requirements of AICTE and APJ Abdul Kalam Technological University. It includes 32 spacious classrooms, 12 tutorial rooms, 3 well-equipped research laboratories, smart classrooms, ICT-enabled classrooms, seminar and drawing rooms, playgrounds, conference halls, canteen, parking lots, and hostels. The mechanical lab has a 3D printer and a modern CNC machine, while the language lab helps students develop communication skills. The college has a central library and 7 departmental libraries, 4 seminar halls, 4 drafting halls, 2 open auditoriums, and Alphonsa Hall with a 250-seat capacity. The canteen and cafeteria offer hygienic food at affordable prices, and the stationery shop provides photocopying facilities and general stationery at reasonable prices. There are excellent residential facilities for boys and girls, with a common room providing LED television with cable TV connection. The transportation facility includes 26 college buses and 7 light motor vehicles for students and staff. Additionally, LMCST has several rooms for various administrative and academic purposes, as well as facilities like a placement cell, server room, auditor's room, workshops, drivers' room, examination cell, ATM facility, yoga room, sickrooms, restrooms, and toilets, and ramp facility classrooms for physically challenged people.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://lmcst.ac.in/wp-content/uploads/2024/02/4.1.1.proof_compressed-1.pdf">https://lmcst.ac.in/wp-content/uploads/2024/02/4.1.1.proof_compressed-1.pdf</a>

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

LMCST has an 87.95 Sq.mtrs multipurpose playground with outdoor facilities such as volleyball, cricket, football, basketball, badminton, handball, and athletics. Indoor facilities include a gymnasium, table tennis, caroms, and chess. On average 100 students utilize these facilities daily, LMCST provides scientific support, equipment, kits, sportswear, and financial assistance. Inter-departmental competitions and annual sports meets are organized in the college. The College teams are actively participating in APJ Abdul Kalam Technological University zonal intercollegiate competitions and national tournaments. The gym center is equipped with dumbbells, weight plates, and machines. A spacious hall is maintained for doing yoga in a Meditation and peaceful environment. LMCST conducts yoga activities which include theoretical, practical classes, and conveys knowledge about the importance of yoga and meditation under the guidance of experts. LOMAA hall is utilized for technical events such as workshops, faculty development programs, etc. 'EQUINOX, the Inter-Collegiate fest organized annually gives opportunities for students to showcase leadership and organizational skills. CREST a flagship program organized by the Department of management studies to enhance the potential and caliber of budding managers. Different clubs such as Debate, quiz, Photography and arts clubs are available at college level.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://lmcst.ac.in/wp-content/uploads/2024/02/4.1.2-Link-for-additional-information.pdf">https://lmcst.ac.in/wp-content/uploads/2024/02/4.1.2-Link-for-additional-information.pdf</a>

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

12

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://lmcst.ac.in/wp-content/uploads/2024/02/ICT-DETAILS_compressed-1.pdf">https://lmcst.ac.in/wp-content/uploads/2024/02/ICT-DETAILS_compressed-1.pdf</a>
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	<a href="#">View File</a>

#### 4.1.4 - Expenditure, excluding salary for infrastructure augmentation during the year (INR in Lakhs)

##### 4.1.4.1 - Expenditure for infrastructure augmentation, excluding salary during the year (INR in lakhs)

165.13

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Upload audited utilization statements	No File Uploaded
Upload Details of budget allocation, excluding salary during the year (Data Template)	<a href="#">View File</a>

#### 4.2 - Library as a Learning Resource

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

An Integrated Library Management System is an automatic package of library services that contains several functions like circulations, acquisitions and cataloging. LMCST Library is fully automated with Koha software- an Integrated Library Management Software (ILMS) which provides a very user-friendly interface for searching documents (OPAC) available in the library and their issue-status. It is an opensource integrated library system, fully-featured and scalable library management system. Koha is the first free software library automation package. Koha software: 2017 to Till date Koha version used :-22.05.04000. Server computer with latest configuration, Laser Printer, Plastic coated Labels for Barcode, Bar code Reader, General Scanner are used for in-house functions. Out of

10 computers, six computers are used for digital library functions for viewing e-journals and e-books. Wi-fi, Networked Computers for public access are used for accessing OPAC, Circulation Status, and access to e-resources.

**E-resources:**

- The LMCST central library is a member of DELNET which gives access to e-books and 500 full-text ejournals both national and international
- The central library is a member of National Digital Library (NDL) which has a collection of more than 6 lakh e-books

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for Additional Information	<a href="https://lmcst.ac.in/wp-content/uploads/2024/02/4.2.1-pdf.pdf">https://lmcst.ac.in/wp-content/uploads/2024/02/4.2.1-pdf.pdf</a>

**4.2.2 - The institution has subscription for the following e-resources e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access toe-resources**

A. Any 4 or more of the above

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template)	<a href="#">View File</a>

**4.2.3 - Expenditure for purchase of books/e-books and subscription to journals/e- journals during the year (INR in Lakhs)**

**4.2.3.1 - Annual expenditure of purchase of books/e-books and subscription to journals/e-journals during the year (INR in Lakhs)**

1.47



File Description	Documents
Any additional information	<a href="#">View File</a>
Audited statements of accounts	No File Uploaded
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	<a href="#">View File</a>

#### 4.2.4 - Number per day usage of library by teachers and students ( foot falls and login data for online access) (Data for the latest completed academic year)

##### 4.2.4.1 - Number of teachers and students using library per day over last one year

50

File Description	Documents
Any additional information	No File Uploaded
Details of library usage by teachers and students	<a href="#">View File</a>

#### 4.3 - IT Infrastructure

##### 4.3.1 - Institution frequently updates its IT facilities including Wi-Fi

LMCST offers advanced computing facilities with state of the art modern technologies to train manpower in programming, data processing, and computer networks. The college has 364 computers connected to LAN and 18 Wi-Fi routers throughout the campus. The computer center has the latest software for Engineering and Scientific applications. LMCST maintains 7 physical servers, including three proxy servers, one backup server, one tally server, one dimension server, and one backup webserver. The processor ranges from Intel Dual Core to Intel Core i3, memory ranges from 2 GB to 8 GB and LCD/LED monitors are used. The campus has 800 Mbps broadband high-speed internet and is equipped with 41 CCTV cameras providing electronic surveillance and safety. Campus Management Software (CMS) is provided by IXIAN Informatics, Pvt. Ltd. Core modules of the Campus 7 software are HR Management, Academics Management, Student Login & Profile Management, Managerial Information System (MIS), and Learning Management Systems. The internet providers available in the campus are Asianet broadband with a speed of 100Mbps and BSNL with a speed of 300Mbps, providing a total bandwidth of 400Mbps. Additionally, the campus is equipped with 41 CCTV cameras for electronic surveillance and safety

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

**4.3.2 - Number of Computers**

**349**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
List of Computers	<a href="#">View File</a>

**4.3.3 - Bandwidth of internet connection in the Institution**

**A. ? 50MBPS**

File Description	Documents
Upload any additional Information	<a href="#">View File</a>
Details of available bandwidth of internet connection in the Institution	<a href="#">View File</a>

**4.4 - Maintenance of Campus Infrastructure**

**4.4.1 - Expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the year (INR in Lakhs)**

**4.4.1.1 - Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component during the year (INR in lakhs)**

**36.8**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Audited statements of accounts	No File Uploaded
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	<a href="#">View File</a>

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

The college has well-established systems and procedures for maintaining and utilizing facilities. The principal is in charge and exercises the duty through faculty, staff, and lab attendants. The Bursar takes care of assets and employs support staff including a gardener, electrician, plumber, driver, security staff, and service staff. All departments are provided with necessary facilities like classrooms, labs, and restrooms. Security staff ensures safety and the public addressing system covers all buildings. A faculty member is in charge of maintaining and monitoring the Campus Maintenance Software. All employees have the provision to apply for leave through online mode. The laboratories are furnished according to the rules and students practice experiments in assigned labs. The playgrounds are under the custody of the faculties of the physical education department and sports equipment is purchased after approval. The computers are upgraded and maintained by the system administrator. Before the commencement of the academic year, Heads of Departments propound the requirement of classrooms to the principal. The benches and desks are cleaned daily and mopping of the classrooms is done every week. Buildings are equipped with Fire-fighting equipment and First aid boxes. Effective waste management systems and organic farming are available on the campus.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

## STUDENT SUPPORT AND PROGRESSION

### 5.1 - Student Support

#### 5.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

##### 5.1.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

6

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Number of students benefited by scholarships and free ships provided by the Government during the year (Data Template)	<a href="#">View File</a>

### 5.1.2 - Number of students benefitted by scholarships, free ships etc. provided by the institution / non- government agencies during the year

#### 5.1.2.1 - Total number of students benefited by scholarships, free ships, etc provided by the institution / non- government agencies during the year

563

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Number of students benefited by scholarships and free ships institution / non- government agencies in last 5 years (Date Template)	<a href="#">View File</a>

**5.1.3 - Capacity building and skills enhancement initiatives taken by the institution include the following: Soft skills  
Language and communication skills Life skills  
(Yoga, physical fitness, health and hygiene)  
ICT/computing skills**

**A. All of the above**

File Description	Documents
Link to Institutional website	<a href="https://lmcst.ac.in/">https://lmcst.ac.in/</a>
Any additional information	<a href="#">View File</a>
Details of capability building and skills enhancement initiatives (Data Template)	<a href="#">View File</a>

**5.1.4 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year**

43

**5.1.4.1 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year**

43

File Description	Documents
Any additional information	<a href="#">View File</a>
Number of students benefitted by guidance for competitive examinations and career counseling during the year (Data Template)	<a href="#">View File</a>

**5.1.5 - The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organization wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees**

A. All of the above

File Description	Documents
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Details of student grievances including sexual harassment and ragging cases	<a href="#">View File</a>

**5.2 - Student Progression****5.2.1 - Number of placement of outgoing students during the year****5.2.1.1 - Number of outgoing students placed during the year**

186

File Description	Documents
Self-attested list of students placed	<a href="#">View File</a>
Upload any additional information	No File Uploaded
Details of student placement during the year (Data Template)	<a href="#">View File</a>

**5.2.2 - Number of students progressing to higher education during the year****5.2.2.1 - Number of outgoing student progression to higher education**

4

File Description	Documents
Upload supporting data for student/alumni	<a href="#">View File</a>
Any additional information	No File Uploaded
Details of student progression to higher education	<a href="#">View File</a>

**5.2.3 - Number of students qualifying in state/national/ international level examinations during the year (eg: JAM/CLAT/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations)****5.2.3.1 - Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations) during the year**

1

File Description	Documents
Upload supporting data for the same	<a href="#">View File</a>
Any additional information	No File Uploaded
Number of students qualifying in state/ national/ international level examinations during the year (Data Template)	<a href="#">View File</a>

**5.3 - Student Participation and Activities**

**5.3.1 - Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national / international level (award for a team event should be counted as one) during the year**

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

4

File Description	Documents
e-copies of award letters and certificates	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national/international level (During the year) (Data Template)	<a href="#">View File</a>

5.3.2 - Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities (student council/ students representation on various bodies as per established processes and norms )

The purpose of the Students Council is to provide activities, and services which serve the co-curricular, cultural, social and educational interest of students. Student council serves as a platform for the students to share their ideas and interests with faculty members, HOD, Principal and management for the improvement of the institution. The student council, named as Lourdes Matha Student Association (LMSA), consists of student representatives from each batch. Participating in the activities of the council gives an added advantage for the students in decision making. The student representative is selected by conducting elections. The council encourage active participation of students in various administrative and extracurricular activities.

All the committees that are directly related to student's activities contains a good number of students in the decision making group. The funds will be provided by the college to organize the activities. We have the several academic and administrative Committees in which the student members are involved. They act as a platform for our students to express their needs and to fulfil their dreams. Professional bodies namely IEEE, ISTE and CSI with student representation are also actively functioning in the College. In

Internal Quality Assurance Cell chairperson is included as the student representative.

File Description	Documents
Paste link for additional information	<a href="https://lmcst.ac.in/clubs-and-committees/">https://lmcst.ac.in/clubs-and-committees/</a>
Upload any additional information	<a href="#">View File</a>

### 5.3.3 - Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions)

#### 5.3.3.1 - Number of sports and cultural events/competitions in which students of the Institution participated during the year

686

File Description	Documents
Report of the event	<a href="#">View File</a>
Upload any additional information	No File Uploaded
Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions) (Data Template)	<a href="#">View File</a>

### 5.4 - Alumni Engagement

5.4.1 - There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

The Alumni Association contributes significantly to the development of the institution. LOMMA (Lourdes Matha Alumni Association) was formally inaugurated in 2007, has a standing of 16 years and has at its credit more than five thousand alumni as its proud ambassadors. LMCST strives hard to maintain a strong and positive relationship with alumni which benefits the institution socially, academically and professionally. A strong bond with alumni is highly desirable for the growth of the institution and is the true inspiration for the new batch. Our alumni have occupied significant positions in different parts of the world. The alumni share their experiences from campus life to professional life, the various efforts involved in attaining a successful professional life. Successful



entrepreneurs, professionals and project team leaders from the alumni are invited to talk to the students and share their success stories. Our alumni regularly interact with our students through Alumni mentoring programmes to share their campus and job experiences. Alumni who are career experts from around the globe act as resource persons for various webinars and technical sessions. The Alumni assist the final year students of various streams of engineering for their project support and placements in their companies.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

**5.4.2 - Alumni contribution during the year (INR in Lakhs)**

**E. <1Lakhs**

File Description	Documents
Upload any additional information	No File Uploaded

## GOVERNANCE, LEADERSHIP AND MANAGEMENT

### 6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of and in tune with the vision and mission of the institution

Professional knowledge is crucial for nation-building and societal projects, requiring advanced technology, scientific analysis, teamwork, and collaboration with industrial projects.

#### PERSPECTIVE PLAN

- Enhancing teaching-learning quality using digital methods
- Promoting research using ICT tools among faculty & students.
- Widening extension activities.
- Enhancing quality assurance measures.
- Increase AICTE/ KSCSTE grants from government sources.

- Increase faculties with Ph.D. qualifications to 100 % by 2030.
- Accredited by NBA
- Increase Central Library journal subscriptions.

Participation of Teachers in Decision-Making Bodies.

Teachers are essential in an institution's vision and mission, with administrative autonomy given to Department Heads and democratic governance, with the Principal as the administrative and academic head.

- Department Advisory Committee (DAC) finalizes course teaching methodologies, maintains academic standards, promotes transparency, and supports teamwork.
- IQAC involves faculty, alumni, and students in governance, assessing budgetary needs, academic standards, policy formulating, innovations, and research. Principal establishes policy, strategy, resource allocation, and operations.
- Teachers influence institutional policies through committees, promoting participatory ethos.
- Teachers motivate cultural and socially conscious activities through various clubs within the institution.

File Description	Documents
Paste link for additional information	<a href="http://lmcst.ac.in/wp-content/uploads/2024/02/6.1.1-Vision-Mission.docx.pdf">http://lmcst.ac.in/wp-content/uploads/2024/02/6.1.1-Vision-Mission.docx.pdf</a>
Upload any additional information	<a href="#">View File</a>

6.1.2 - The effective leadership is visible in various institutional practices such as decentralization and participative management.

Institution has decentralized, transparent mechanisms for administration, management, financial, and education.

CASE STUDY:

The institution believes in the practices of decentralized participative management. It reflects in decision making, planning, administration and management. The administration is decentralized by a delegation of responsibilities with Heads of departments and committees. Staff members hold departmental heads, college council, governing body, and IQAC positions, enabling faculty participation.

The college's departments plan activities in line with its vision and mission, with faculty and technical staff supporting daily work. The Principal and academic council formulate the institution's perspective plan, while the College Council, IQAC, and committees collaborate to improve academic activities. IQAC creates and oversees academic calendars. The Departmental Advisory Committee recommends goals and objectives, while faculty conduct lectures, practicals, and provide feedback. Management addresses challenges and encourages collaboration among teachers, students, staff, alumni, and coordinators.

HoDs make adjustments to tutoring assignments, plan FDPs, seminars, workshops, career counseling sessions, remedial measures, and interdepartmental visits. They also organize Parent-Teacher meetings, oversee internal examinations, and decide on special and remedial classes. They also conduct summer courses and on-the-job training programs for school students.

File Description	Documents
Paste link for additional information	<a href="https://lmcst.ac.in/organizational-chart/">https://lmcst.ac.in/organizational-chart/</a>
Upload any additional information	<a href="#">View File</a>

## 6.2 - Strategy Development and Deployment

### 6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

Lourdes Matha College implements strategic, medium, and short-term plans for continuous improvement.

#### The Strategic Plan

#### Long-Term Goals:

- Enhancing university collaboration and academic and research programs.
- Promote green and paperless Lourdes.

- Become a leading center for engineering and technology.
- Acquire NAAC and NBA accreditations, achieve autonomous status.
- Increase patents, publications, funded projects, faculty participation.

Medium-Term Goals:

- Enhancing core sector placements and enhancing industry-institute interactions.
- Motivate students and faculty for higher studies and research publication.

Short Term Goals (Annual Goals):

- Modernize classrooms and laboratories.
- Train supporting staff.

Principal initiates strategic plan brainstorming involving committees & conveners.

Case study of the successfully implemented strategic plan:

The college promotes an eco-friendly environment by utilizing renewable energy and reducing paper usage. They operate a 100kW solar power plant and grid-tied solar power plant, and utilize biogas plants and vermicomposting pits for food waste. They also implement a paperless system, storing documents on Google Cloud Platform, Amazon Web Services, and a Simple Storage Server, monitoring faculty attendance and leave submission online through the Campus Management System. Online feedback and tools like Google Sheets and Google Docs facilitate real-time idea sharing.

File Description	Documents
Strategic Plan and deployment documents on the website	<a href="#">View File</a>
Paste link for additional information	<a href="https://lmcst.ac.in/wp-content/uploads/2024/02/6.2.1-Paste-link-for-additional-information.docx.pdf">https://lmcst.ac.in/wp-content/uploads/2024/02/6.2.1-Paste-link-for-additional-information.docx.pdf</a>
Upload any additional information	<a href="#">View File</a>

6.2.2 - The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, etc.

Organization has a well-structured administrative structure with Governing Body, functional bodies, committees.

#### 1. Administrative Setup:

The Board of Governors is the college's financial, administrative, and quality systems policy formulating body, meeting annually to implement decisions and manage academics and development.

#### 2. Functions of Various Bodies:

42 committees evaluate, monitor, and endorse institutional capability, design, education efficacy, research, examination, assessment, and capacity, with the head overseeing their tasks effectively.

#### 3. Service rules and Procedure:

Institution maintains well-documented rules, policies, and procedures, informing recruits through induction programs, and follows AICTE norms for teaching positions.

#### 4. Recruitment Policies:

Department heads report staff requirements to the principal, advertise in newspapers, form selection committees, shortlist applications, inform interview dates, assess candidate's potential, select based on performance, issue appointments and select candidates report to duty.

#### 5. Promotional Policies:

Promotions by selection committee, evaluating candidates based on committee recommendations, with college authorities determining necessary posts.

#### 6. Grievance Redressal Mechanism:

The Students Grievance and Appeal Committee addresses students' grievances promptly and impartially, examining and discussing issues through online submissions and notice boards and resolving the issues.

File Description	Documents
Paste link for additional information	Nil
Link to Organogram of the institution webpage	<a href="https://lmcst.ac.in/organizational-chart/">https://lmcst.ac.in/organizational-chart/</a>
Upload any additional information	<a href="#">View File</a>

#### 6.2.3 - Implementation of e-governance in areas of operation Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Document	<a href="#">View File</a>
Screen shots of user inter faces	<a href="#">View File</a>
Any additional information	No File Uploaded
Details of implementation of e-governance in areas of operation, Administration etc(Data Template)	<a href="#">View File</a>

#### 6.3 - Faculty Empowerment Strategies

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

LMCST offers faculty and staff, monetary & non-monetary benefits for growth opportunities based on eligibility and norms. Welfare measure to the faculty and non-teaching staff of the college:

1. Leave facility: Staff receive 15-day annual leave, 20-day

vacation, duty, medical, and 6-month paid maternity leave.

2. **Employees Provident Fund:** College enrolls staff in Staffs' Provident Fund Legislation, contributing 12% of pay, remitting, coordinating with EPF authorities for interest-based payments upon retirement.

3. **Financial support in career development:** Faculty members offered conferences, seminars, webinars, workshops.

4. **Financial support during emergencies:** Staff club provides medical assistance for staff members.

5. **Research Incentive Scheme:** Scheme encourages faculty to conduct quality research and consultancy.

6. **Leave for higher studies encouraged to promote research.**

7. **Staff can access short-term loan advances for emergencies.**

8. **Women Empowerment Cell:** It safeguards rights & empowers female faculty and staffs.

9. **Staff can use college bus and hostel facilities; inform convener for official use.**

10. **Canteen and Pantry facilities:** Campus canteen and pantry facilities available for staff convenience.

11. **ATM:** ATM facility available on campus.

12. **Employees wards granted fee concessions for admission.**

File Description	Documents
Paste link for additional information	<a href="https://lmcst.ac.in/Women%20Empowerment%20Cell/">https://lmcst.ac.in/Women%20Empowerment%20Cell/</a>
Upload any additional information	<a href="#">View File</a>

**6.3.2 - Number of teachers provided with financial support to attend conferences/ workshops and towards membership fee of professional bodies during the year**

**6.3.2.1 - Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the year**

4

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	<a href="#">View File</a>

### 6.3.3 - Number of professional development /administrative training programs organized by the institution for teaching and non-teaching staff during the year

#### 6.3.3.1 - Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff during the year

1

File Description	Documents
Reports of the Human Resource Development Centres (UGCASC or other relevant centres).	No File Uploaded
Reports of Academic Staff College or similar centers	No File Uploaded
Upload any additional information	<a href="#">View File</a>
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	<a href="#">View File</a>

### 6.3.4 - Number of teachers undergoing online/face-to-face Faculty development Programmes (FDP) during the year (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course etc.)

#### 6.3.4.1 - Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course during the year

45



File Description	Documents
IQAC report summary	<a href="#">View File</a>
Reports of the Human Resource Development Centres (UGCASC or other relevant centers)	No File Uploaded
Upload any additional information	<a href="#">View File</a>
Details of teachers attending professional development programmes during the year (Data Template)	<a href="#">View File</a>

### 6.3.5 - Institutions Performance Appraisal System for teaching and non- teaching staff

Organizational success relies on employee quality, performance, and expertise. Collaboration is crucial for achieving vision and mission. Academic and R&D performance of faculties is crucial for faculty growth and institution development. HRM policies align organization goals with individual performance.

The factors analyzed in the appraisal system for teaching staff

- Academic qualifications
- Experience in teaching or industry.
- Research Publications and Patents obtained/registered.
- Attended faculty development programs and conferences.
- Usage of modern tools for teaching.
- Innovations brought out in teaching practices
- Pass percentages achieved in University Exams
- Contributions in guidance of project work of students
- R&D projects undertaken
- Coordination and participation in clubs and committees.
- Consultancies undertaken

Organizational success relies on employee quality, performance, expertise, collaboration, academic growth, and faculty development, with HRM policies balancing goals and individual contributions. Academic R&D performance of faculties is crucial for faculty growth & institutional development.

Feedback forms are distributed at semester end, collecting information on teachers & teaching processes. A team analyzes and suggests improvements, with faculty performance assessed annually and review meetings held for staff improvement.

A research incentive system in faculties is introduced, focusing on SCI/SCOPUS/UGC indexed journals and societal needs product development initiatives.

File Description	Documents
Paste link for additional information	<a href="https://lmcst.ac.in/e-newsletter/">https://lmcst.ac.in/e-newsletter/</a>
Upload any additional information	<a href="#">View File</a>

#### 6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly Enumerate the various internal and external financial audits carried out during the year with the mechanism for settling audit objections within a maximum of 200 words

The institution adheres to statutory audit and accounting requirements, conducting regular internal and external financial audits. It has an internal audit team with two auditors, Mr. James Varghese and Mr. Jyothiraj, and submits reports to the Accounts Officer, who scrutinizes queries and takes remedial action.

The institution has an external audit mechanism by Mr. Philip and Mathew, a 35-year-old Chartered Accountant firm. Queries are raised, clarified & audit reports submitted to the IQAC Chairman. Accounts are finalized annually.

The objective of Internal & External Audit:

Internal and external audits are conducted to ensure transparency and accuracy in the accounting process. The internal audit team checks daily transactions, vehicle log details, stock registers, asset registers, and other records. The external audit is conducted by registered Chartered Accountants annually. The audit statements are submitted to the Income-tax Department, Registrar of Society,

and Society members for approval. The college's accounts officer reviews the internal audit report and rectifies discrepancies. Fee payment is primarily online, and an effective financial management system is followed to prevent financial mismanagement. Staff are meticulously deducted from tax and salaries are paid through the bank, making accounting foolproof.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

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

##### 6.4.2.1 - Total Grants received from non-government bodies, individuals, Philanthropers during the year (INR in Lakhs)

**NIL**

File Description	Documents
Annual statements of accounts	No File Uploaded
Any additional information	No File Uploaded
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the year (Data Template)	No File Uploaded

#### 6.4.3 - Institutional strategies for mobilization of funds and the optimal utilization of resources

##### Mobilization of Funds:

Institution funds are met through annual fees and external agencies for capital expenditure and working capital finance.

LMCES treasurer handles finance operations, utilizing short-term loans from panel banks and corporations.

The sources of income are:

1. Tuition fees

2. Transportation fees

3. Admission fees

4. Application Fees

5. Hostel Fees

6. Fee for value-added courses and facilities.

7. Grants from AICTE/ KSCSTE

8. Conduct seminars, workshops and Faculty Development Programmes.

9. Alumni donations

10. Staff club raises funds.

11. Organic Farming

12. Fish Farming

Utilization of funds:

Planning Committee reviews and recommends budget allocation for institution activities, including staff salaries, maintenance, and staff welfare, HR Training, club activities and extension activities.

Institution's purchase policy governs purchases, with indenting officers initiating, purchasing department calls for quotations, evaluates them and finalizes the order based on price, quality and maintenance, finalizing orders & store department preparing vouchers and disbursing funds.

Institute allocates funds for unplanned purchases and contingencies, with an empowered committee handling construction and maintenance, and monitoring resources.

The Governing Body oversees annual expenditure, budget, and financial resource efficiency through a standardized process for sanctioning funds and payment.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

## 6.5 - Internal Quality Assurance System

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

The Internal Quality Assurance Cell (IQAC) aims to improve education quality by developing a system for continuous improvement in institutional performance. Its coordinator interacts with functionaries and chairpersons, meets four times a year, and suggests improvements in academic and administrative functions.

The IQAC facilitate/contribute:

- 1) Improve institutional functioning for quality enhancement and internalization.
- 2) Enhancing institutional activities and implementing good practices.

Best practices - 1 Academic audit

The University publishes academic calendars and schedules programs, according to AICTE & DTE norms with IQAC creating course outcomes and lesson plans. Academic monitoring is conducted by the Department head, while the Internal Quality Assurance Cell conducts audits twice a semester. The University promotes a paperless office and cloud storage.

Best Practice -2 Promoting In-house Research Projects

The institution aims to transform students and faculty into productive citizens through integrative learning and experiential learning. It establishes Project Laboratories in each department, provides best-suited equipments for conducting experiments & started a mechanism to provide sponsorship for innovative ideas & projects. The institution encourages research publication in international conferences and journals, motivating faculty members through incentives.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

6.5.2 - The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities

The IQAC conducts a comprehensive internal academic audit at the conclusion of each semester, presenting an invaluable opportunity to enhance the quality of the teaching-learning process within the institution. This annual audit encompasses all departments, with seasoned faculty members from various disciplines appointed as auditors to ensure rigorous evaluation and improvement.

The institute holds regular class committee meetings, department meetings, and meetings between Heads of Departments (HODs) and the Principal to foster discussions aimed at optimizing student performance. Additionally, at the conclusion of each semester, valuable feedback is solicited from students, and this data is meticulously analyzed to refine teaching methodologies for subsequent semesters.

File Description	Documents
Paste link for additional information	<a href="https://lmcst.ac.in/wp-content/uploads/2024/02/6.5.2.docx.pdf">https://lmcst.ac.in/wp-content/uploads/2024/02/6.5.2.docx.pdf</a>
Upload any additional information	<a href="#">View File</a>

**6.5.3 - Quality assurance initiatives of the institution include: Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analyzed and used for improvements Collaborative quality initiatives with other institution(s) Participation in NIRF any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)**

**C. Any 2 of the above**

File Description	Documents
Paste web link of Annual reports of Institution	<a href="https://lmcst.ac.in/e-newsletter/">https://lmcst.ac.in/e-newsletter/</a>
Upload e-copies of the accreditations and certifications	No File Uploaded
Upload any additional information	<a href="#">View File</a>
Upload details of Quality assurance initiatives of the institution (Data Template)	<a href="#">View File</a>

## INSTITUTIONAL VALUES AND BEST PRACTICES

### 7.1 - Institutional Values and Social Responsibilities

#### 7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

By addressing gender bias and strengthening women, the institution actively supports gender equity through its NSS Cell and Women Empowerment Cell. Faculty members make sure that students and staff are safe while in transit, and secure and comfortable transportation is offered throughout Trivandrum. Awareness is raised and female students are empowered through a variety of events, including celebrations of International Women's Day and partnerships with Mitraniketan. Campus security is improved by safety features such segregated common areas, committed female housekeeping staff, and CCTV coverage. There are free counseling options available to address issues with mental health and careers.

Gender balance is promoted by programs like as allocating 40% of Student Council seats to females, promoting involvement in professional and NCC societies, and guaranteeing the presence of women on committees. Equal opportunities are provided for female faculty members to hold academic administration positions. Inclusion is promoted by involvement in clubs, tournaments, and project teams. By fostering an atmosphere where all students can succeed academically, professionally, and personally, these actions help to foster a more welcoming campus community.

File Description	Documents
Annual gender sensitization action plan	<a href="https://lmcst.ac.in/wp-content/uploads/2024/02/7.1.1-GENDER-SENSITIZATION-ACTION-PLAN.pdf">https://lmcst.ac.in/wp-content/uploads/2024/02/7.1.1-GENDER-SENSITIZATION-ACTION-PLAN.pdf</a>
Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information	<a href="https://lmcst.ac.in/wp-content/uploads/2024/02/7.1.1-Web-link-Specific-facilities-provided-for-women-.docx_compressed.pdf">https://lmcst.ac.in/wp-content/uploads/2024/02/7.1.1-Web-link-Specific-facilities-provided-for-women-.docx_compressed.pdf</a>

<b>7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation measures Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power efficient equipment</b>	<b>A. 4 or All of the above</b>
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File Description	Documents
Geo tagged Photographs	<a href="#">View File</a>
Any other relevant information	<b>No File Uploaded</b>

7.1.3 - Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management

**Solid Waste Management**

LMCST promotes a paper-free campus by implementing an online admission, office work, fee payment, e-Audit, assignment, project, and internal assessment procedure. For trash disposal, incinerators have been established on campus. Biogas facility for gathering food waste from the college campus, cafeteria, and boys and girls dormitories.

**Liquid Waste Management:**

Laboratory solvents are distilled and reused as much as feasible. Very dilute solutions are utilized, and after the experiment is over, they are diluted again and disposed of in the ground. Wastewater is reused for gardening.



Biomedical Waste Management in relation to COVID-19 is closely monitored in order to limit pandemic threats, and proper medical waste disposal is used to successfully control infection sources.

#### E-Waste Management

To reduce e-waste, every effort is made to maximize the use of current gear through frequent service. Unavoidable e-waste, such as printer cartridges and laptop batteries, is returned to the company. Earth Sense Recycle Pvt. Ltd. took over ownership and rights to end-of-life electronic equipment.

#### Hazardous chemicals and radioactive waste management

Our college has chosen green chemistry principles to decrease chemicals from the numerous experiments mentioned in the University syllabus.

File Description	Documents
Relevant documents like agreements / MoUs with Government and other approved agencies	<a href="#">View File</a>
Geo tagged photographs of the facilities	<a href="#">View File</a>

**7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus**

A. Any 4 or all of the above

File Description	Documents
Geo tagged photographs / videos of the facilities	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

#### 7.1.5 - Green campus initiatives include

**7.1.5.1 - The institutional initiatives for greening the campus are as follows:**

1. Restricted entry of automobiles
2. Use of bicycles/ Battery-powered

B. Any 3 of the above

<p><b>vehicles</b></p> <p><b>3. Pedestrian-friendly pathways</b></p> <p><b>4. Ban on use of plastic</b></p> <p><b>5. Landscaping</b></p>	
--	--

File Description	Documents
Geo tagged photos / videos of the facilities	<a href="#">View File</a>
Various policy documents / decisions circulated for implementation	<a href="#">View File</a>
Any other relevant documents	<a href="#">View File</a>

**7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution**

<p><b>7.1.6.1 - The institutional environment and energy initiatives are confirmed through the following 1.Green audit 2. Energy audit 3.Environment audit 4.Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities</b></p>	<p><b>D. Any 1 of the above</b></p>
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File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	<a href="#">View File</a>
Certification by the auditing agency	<a href="#">View File</a>
Certificates of the awards received	No File Uploaded
Any other relevant information	<a href="#">View File</a>

<p><b>7.1.7 - The Institution has disabled-friendly, barrier free environment Built environment with ramps/lifts for easy access to classrooms. Disabled-friendly washrooms Signage including tactile path, lights, display boards and signposts Assistive technology and facilities for persons with disabilities (Divyangjan) accessible website, screen-reading software, mechanized equipment 5. Provision for enquiry and information : Human assistance, reader, scribe, soft copies of</b></p>	<p><b>B. Any 3 of the above</b></p>
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reading material, screen	reading
File Description	Documents
Geo tagged photographs / videos of the facilities	<a href="#">View File</a>
Policy documents and information brochures on the support to be provided	<a href="#">View File</a>
Details of the Software procured for providing the assistance	No File Uploaded
Any other relevant information	No File Uploaded

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 200 words).

The college is effectively acting as a catalyst in the village to promote peace and national integration. The institution's extension activities have a direct positive impact on societal cultural and communal thoughts.

The Student Grievance and Appeal Committee and the Women's Internal Complaints Committee handle grievances without regard for anyone's race or cultural background. LMCST's code of ethics applies to all employees and students, regardless of cultural, regional, linguistic, community, or socio-economic background.

Tolerance to nature: The institution was built with minimal changes to the terrain's natural structure. We preserve the water bodies intact.

The institution provides scholarships to meritorious students from low-income families as financial support.

Embrace Students' Diversity: We value and embrace diversity, including ethnicity, religion, gender, sexual orientation, language, socioeconomic status, and academic readiness for college. The Department Associations, Arts Club, Debate Club, Quiz Club, Student Aptitude Development (SADP), PR & HR Committee, and Sukrutha Club organize activities, competitions, and invited lectures to educate students and raise awareness of social responsibility. Students are encouraged to engage in co-curricular and extracurricular activities to foster social interaction and constructive debate.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<a href="#">View File</a>
Any other relevant information	No File Uploaded

7.1.9 - Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens

The institution stands as a model for good governance and democracy, cherished not only by students and staff but also by villagers for its commitment to social progress. The unique practice of broadcasting the 'National Anthem' at the end of each class reflects deep reverence for Indian constitutional values.

Embracing Kuttichal Gram Panchayath,, the institution extends healthcare, education, and agricultural support. Annual NSS Camps in neighboring communities instill moral ideals and civic responsibilities in both students and faculty, fostering a culture of citizenship.

Courses like Professional Ethics and the Constitution of India instill integrity and unity among citizens. Value education programs nurture holistic development, teaching empathy, respect, and mindfulness.

The institution's adoption of "Universal Human Value (UHV)" content, endorsed by AICTE, promotes universal values and personal growth. Faculty members have participated in training programs to mentor students in UHV.

Awareness programs and rallies on world nature conservation day, plastic reduction, cleanliness, and water conservation engage students and staff, promoting environmental consciousness and social responsibility.

In sum, the institution's initiatives, ranging from ethical education to community engagement and environmental awareness, reflect a commitment to fostering responsible citizenship and social consciousness, contributing to personal and institutional development in harmony with societal values.

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	Nil
Any other relevant information	<a href="http://lmcst.ac.in/wp-content/uploads/2024/02/7.1.9.pdf">http://lmcst.ac.in/wp-content/uploads/2024/02/7.1.9.pdf</a>

<p><b>7.1.10 - The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard. The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff</b> 4. Annual awareness programmes on Code of Conduct are organized</p>	B. Any 3 of the above
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File Description	Documents
Code of ethics policy document	<a href="#">View File</a>
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

Institution prioritizes fostering values, nationalism, and a sense of unity among its students through an array of annual celebrations and activities. National festivals and the birthdays of notable Indian personalities are commemorated each year on campus, engaging students in various programs and competitions. Academic events such as seminars, conferences, and expert talks enrich awareness and understanding of these themes, while competitions like poster presentations and essay writing encourage active participation and creativity.

Awareness camps serve to educate students about pertinent social issues, promoting empathy and civic responsibility. Throughout the year, the institution observes a range of national and international commemorative days among others. These celebrations not only raise awareness but also inspire action and community engagement.

Events like Blood Donor Day, International Day of Yoga, and World Nature Conservation Day encourage students to contribute positively to society and the environment. Major national occasions like Independence Day, Teachers' Day, and Gandhi Jayanthi are commemorated with reverence and enthusiasm.

Moreover, Institution observes Vigilance Awareness Week, emphasizing ethical conduct and integrity. Festivals are celebrated with joy, fostering inclusivity and cultural appreciation..

Through these diverse activities and celebrations, Institution cultivates a holistic educational environment that nurtures values, civic-mindedness, and cultural understanding among its students

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	<a href="#">View File</a>
Geo tagged photographs of some of the events	<a href="#">View File</a>
Any other relevant information	No File Uploaded

## 7.2 - Best Practices

7.2.1 - Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

### Best Practice 1

Campus 7 at LMCST revolutionizes academic processes and student engagement, offering comprehensive access to course materials, video lectures, and assessments. Its cloud-based infrastructure ensures scalability and accessibility, with a customizable interface optimizing user experience. Despite initial training challenges, Campus 7 facilitates paperless monitoring, online resource access, and efficient administrative management. It streamlines operations like attendance tracking, inventory control, and financial management, contributing to widespread adoption. Ongoing support and adaptation are crucial for maximizing its benefits across all

academic levels at LMCST.

## Best Practice 2

LMCST adopts green energy with an 80% reliance on a 100kw solar power plant, saving Rs. 13.5 lakhs annually. Grid-tied solar power offers eco-friendly, cost-effective solutions, ensuring quick investment recovery and free energy for 15-20 years. Solar PV modules generate DC electricity converted by smart grid-tied inverters to AC voltage, optimizing power extraction. Inverter connectivity enables parameter monitoring. Clean energy reduces costs and environmental impact, enhancing grid capacity and rooftop efficiency. Challenges include reliance on daytime grid power, requiring battery storage for power cuts, and UPS for equipment protection during outages.

File Description	Documents
Best practices in the Institutional website	<a href="http://lmcst.ac.in/wp-content/uploads/2024/02/7.2-Best-Practices.docx.pdf">http://lmcst.ac.in/wp-content/uploads/2024/02/7.2-Best-Practices.docx.pdf</a>
Any other relevant information	<a href="http://lmcst.ac.in/wp-content/uploads/2024/02/7.2.1-Web-link-CMS-.docx.pdf">http://lmcst.ac.in/wp-content/uploads/2024/02/7.2.1-Web-link-CMS-.docx.pdf</a>

## 7.3 - Institutional Distinctiveness

7.3.1 - Portray the performance of the Institution in one area distinctive to its priority and thrust within 200 words

One of the various schemes provided by LMCST is Lourde Matha Scholarship. The main objective of providing such a scholarship is to provide financial aid to economically weak meritorious students to pursue higher studies irrespective of social denomination. The Lourdes Matha Scholarships are available to B.Tech students across all branches at LMCST, offered without the need for a specific scholarship examination. These scholarships are determined based on the student's performance in their 11th and 12th standard for Mathematics, Physics, and Chemistry, as well as their rank in the Kerala State Entrance examination (KEAM). Merit levels, comprising marks from 11th and 12th standard along with KEAM rank, dictate varying scholarship amounts. Scholarship tenure is renewable annually contingent upon the student's performance in university examinations. Admissions from 2015 onwards benefit from scholarship coverage for the full course duration. Scholarship amounts range from Rs 75,000 to Rs 10,000 annually. The minimum eligibility

criteria for scholarship consideration entail securing a minimum aggregate of 60% in PCM and a KEAM rank better than 40,000. These scholarships serve as incentives for academic excellence and financial support, encouraging students to strive for academic success while pursuing their engineering education at Lourdes Matha College of Science and Technology.

File Description	Documents
Appropriate web in the Institutional website	<a href="#">View File</a>
Any other relevant information	No File Uploaded

### 7.3.2 - Plan of action for the next academic year

- Increase the number of placement opportunities in reputed industries for all the eligible students.
- Improving the interaction between industry and academia to boost corporate engagement in education while putting an emphasis on students' updating their technical knowledge.
- Number of MoUs with Industry to be strengthened.
- Encouraging faculty members to undertake research work.
- Encouraging faculty and students to attend conferences, workshops, publish their research/review papers, etc
- Number of publications in Scopus/SCI/SCIE to be improved.
- Higher Studies, Entrepreneurship and Start-up relevant activities have to be improved.
- To strengthen R&D activities leading to submission of proposals for funded research projects
- To Improve ICT facilities for Teaching - Learning (Digital Boards), etc
- To train and improve quality by imparting new skills to faculties by organizing Faculty Development Program and Quality Improvement Program to receive better inputs
- Developing leadership qualities in students through various activities, involving students in programmes and Committees of the institute.
- Contributing to social change and promoting green and sustainable initiatives.
- Pursuing NBA accreditation for the department of computer science and engineering.
- To reinforce the community service projects to address societal problems.
- IQAC, regularly assess the quality of the education in the institution and initiates developmental activities for overall progress.



