



SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

LOURDES MATHA COLLEGE OF SCIENCE AND TECHNOLOGY

LOURDES HILLS, KUTTICAL P.O. THIRUVANANTHAPURAM -695574

695574

www.lmcst.ac.in

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Lourdes Matha College of Science and Technology (**LMCST**) was established in 2002 for the promotion of professional education to students from majority of the rural areas of Thiruvananthapuram District by the “Lourdes Matha Catholic Educational Society” under the **management of Archdiocese of Changanassery** in Kerala, with approval from AICTE, affiliation to the University of Kerala. Later, from 2014 onwards the college has been affiliated to the APJ Abdul Kalam Technological University (KTU) and ISO 9001:2015 certified.

The college (**LMCST**) is owned and managed by the Archdiocese of Changanassery, which has a rich heritage and pedigree in the field of education in India. The Archdiocese of Changanassery manages a vast network of 115 educational institutions - including 103 schools, 12 university-affiliated colleges/ institutes which include 6 Arts and Science colleges, Engineering College, Hotel management & Catering College, B.Ed College, College for special education, Nursing College and Allied & Health Sciences College spread in Kerala. St. Berchmans College (Autonomous) founded in 1922 and Assumption College (Autonomous) founded in 1950 are premier institutions in the country.

The College has a spacious campus of 25 acres of land at Kuttichal, a rustic village, 25 km east of Thiruvananthapuram city. The scenic beauty and virgin surroundings of the picturesque lush green rubber plantations in the backdrop of the misty Western Ghats and the serene, tranquil atmosphere provides the perfect ambience for academic pursuit.

Ever since its inception, the college has been trying to provide value-based high-quality education to its students by inculcating in them the strength of character and love and service of fellow human beings on the one hand and by guiding them to achieve excellence in their respective branches of study and co-curricular activities, on the other. Over the past nineteen years, it has grown up steadily with five core undergraduate B.Tech courses, five postgraduate courses namely three M.Tech programmes, MCA, MBA, and Research programmes. The college has 83 well-qualified teaching faculties including research guide, Fellow of Indian National Academy of Engineering (FNAE), and a member of National Expert Advisory Group (EAG) appointed by Department of Science and Technology (DST), Govt. of India.

Vision

Establish a Centre of Excellence for Professional Education with the focus on societal service for nation-building, research and development in cutting-edge technologies for the benefit of humanity.

Mission

Mould world-class professionals by enabling knowledge acquisition for research and development, design of novel systems and scientific analysis with a focus on teamwork culture, continual learning, creating a sustainable environment and noble society using modern technologies.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

Strengths

- **A rich legacy** of excellence in education and strong societal connections
- 19 years of experience in professional education
- Highly qualified, motivated, committed faculty and **Successful implementation of Outcome-Based Education (OBE)** in UG and PG programs.
- Strong students' support through many scholarships for meritorious economically weak students
- Excellent infrastructural facilities and availability of **modern pedagogical tools** for students and faculty members
- Excellent transport facility covering a large suburban and urban area.
- Excellent student support system
- The calm, tranquil and peaceful atmosphere for academic pursuit
- Pollution-free green and healthy zone
- Highly disciplined campus with established code of conduct for students, faculty and staff.
- All core engineering courses, M.Tech, MCA, MBA and Research programmes
- Prevalence of open environment, teachers counseling via structured students' mentorship program"
- Strong alumni support to college
- A large number of well-nurtured extracurricular activities
- Specialized laboratories with adequate instruments
- Value-based education
- Hostel facility for boys and girls
- An increasing number of campus placements
- MoUs with Industries
- Dedicated Placement training schemes
- 100 kW solar energy plant (Green Energy)
- NSS and NCC units
- Clubs and associations for the all-round student development

Strength Analysis

Introspection on strengths for augmentation and sustenance: 23 strength areas identified above. Some of these need to be strengthened further. Viz., Specialized laboratories needs to be further strengthened to support new research in cutting-edge technologies, the capacity of hostel facility for boys and girls to be increased, increasing number of campus placement in some of the core engineering disciplines like Civil and Mechanical engineering, number of MoUs with industries to be increased, enhancement of placement training schemes and expansion of research in all core areas. Even though, excellent transport facility covering a large region is available, increasing the fully residential courses progressively would help students to achieve excellence in academic, research, innovation, start-ups and TBI by enabling them to spend more time with less stress.

Institutional Weakness

Weakness

- Distance of the college from city
- Attrition of the number of experienced teachers with Ph.D.
- Declining demand for some of the core engineering disciplines.
- The trend of non-enthusiastic students is on the increase.
- Lack of funded projects and low product development activities

Weakness Analysis

Identifying weaknesses to effectively implement remedial measures: The disadvantage of the distance of the college from the city can be overcome by going for fully residential mode is possible since a large vacant area is available for setting up such facilities. Attrition of the number of experienced teachers can be overcome by encouraging them to focus on research activities. Declining demand for some of the core engineering disciplines can be solved by developing special skill development programmes in such areas. Lack of funded projects and low product development activities by participating in DST, DRDO, and ISRO funded projects.

Institutional Opportunity

Opportunities

- An increasing number of add-on courses for focused skill development for students
- Collaboration with Tier-1 institutions for research in India and abroad
- Presence of teachers with international exposure
- Scope for making fully residential campus for effective utilization of time and enhanced focus on research
- Ample scope for start-up initiatives and TBI
- Availing more prospective funding opportunities (such as CSR funding) for skill development add-on courses and research facility augmentation.
- To become autonomous and eventually an excellent deemed University

Opportunities Analysis

To be aware of the opportunities to expand, diversify and migrate to new avenues for growth. An increasing number of add-on courses for focused skill development for students, collaborations with reputed institutions for research, utilizing the ample scope for start-up initiatives and TBI for sufficient area is available on the campus. The campus has all the essential academic ingredients to become a deemed university in due course of time.

Institutional Challenge

Challenges

- To become a college with cent percent research departments
- Mushrooming growth of engineering education institutions in the vicinity, with no corresponding change in school education, leading to an insufficient number of good students.
- Growing the campus placement in core engineering areas.
- The disinterest of the graduating students, reducing drastically the availability of students for Postgraduate studies.
- Difficulties in mobilizing financial resources

Challenges Analysis

Identify and focus on challenges to deal with them by innovative, out-of-the-box solutions to transform them into strengths. NBA accreditation in all departments would overcome almost all challenges.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

LMCST follows the curriculum designed and developed by the affiliating University (APJ Abdul Kalam Technological University). Before the commencement of the semester for the proper execution of the academic activities, proper academic planning is done keeping in view the vision and mission of the institute. Institute academic calendar is prepared in line with University academic calendar including curricular, co-curricular and extra-curricular activities. The implementation of the academic calendar and proper delivery of the curriculum is regularly monitored by HODs. Academic internal audit by IQAC team and external audit conducted by the university ensures the quality of the curriculum delivery. Students attendance and performance in class is also monitored by the faculty handling the subject and staff advisor. For providing academic flexibility to students, various elective courses and minor courses are also given. For the overall development of students, the institution arranges eminent lecture series, alumni interaction programs, seminars, workshops and add-on courses. Student feedback related to teaching-learning process and other issues like infrastructural facilities, laboratories, library, academic and extracurricular activities is taken twice a semester and analyzed further for necessary actions.

The institute also takes genuine efforts to ensure gender equality, environmental sustainability, human values and professional ethics. Equal opportunities are given in terms of admissions, employment, training programmes, sports activities. Frequent meetings of the Women's Cell are being conducted to look after the welfare of the women employees and students, facilitate redressal of their grievances. The college supports women faculty and students to become members in forums and encourages them to participate in events focusing on women empowerment and promoting leadership qualities in women. To support environmental protection and ecological preservation, various activities are conducted by the institute under the NSS. Important days like World Environment day and World Nature Conservation day are celebrated and activities are conducted based on the themes suggested. The institute also offers various core subjects and elective subjects to address environment and sustainability. 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 practice equity, equality and nurture respect for each other.

Teaching-learning and Evaluation

The institution has established a strong ecosystem to cater to the teaching-learning requirements of students by providing infrastructure, good learning ambience and technology support. The learning abilities of the students are analyzed through assessments from the very beginning and customized strategies are drawn for catering to students' needs, based on capability assessment and IQ level. The institution organizes induction programs, bridge courses, remedial classes, weekly tests, tutorial classes, classroom interactions and seminars to support slow learners. Advanced learners are encouraged to engage in activities like innovative projects, placements-related training, workshops, project exhibitions and technical events through clubs and associations. The student-faculty ratio is optimally maintained to facilitate a student-centric learning environment by providing appropriate pedagogy for participative and experiential learning and problem-solving methodologies.

The institution has 13 ICT-enabled classrooms including 1 smart classroom to facilitate faculty in using ICT methods to enhance effectiveness in teaching through various E-resources and LMS to enhance students' experience. The IQAC is involved in curriculum planning & deployment and also in preparing & implementing strategies. A strong mentoring system is adopted to counsel students based on their family background, career interests, and their academic learning problems. The institution adopts summative and formative assessment strategies for the continuous internal evaluation process. The internal evaluations are transparent and robust through the Campus Management System. The online classes recorded video links, attendance and evaluations are made available in the LMS. The college internal and university exam cell are managing all exam-related activities through coordinated efforts. Marks scored by students are promptly intimated to the students as well as their parents. Remedial classes are conducted for the students who score below the average marks. LMCST has well-experienced faculty members and are frequently updated with FDP's and training programs. The Program Outcomes are assessed using direct and indirect methods to identify educational and operational gaps and to propose action plans for further integration in strategic planning. Teaching-learning processes are continually upgraded based on students' results analysis and feedback. The College imparts compulsory value education to all the students through experts.

Research, Innovations and Extension

Lourdes Matha College of Science & Technology promotes research among teachers and students through its Research Cell. Along with the Research Cell, the Innovation Entrepreneurship and Development Cell (IEDC) promotes Product Development Initiatives among both faculty and students community. The Research Cell houses two important committees viz. the Journal Committee and the IPR Cell. The institute has a stated Code of Ethics in Research and online Plagiarism Checker software. Every department is equipped with a Research Lab with in-house facilities to assist the student projects. All the journal publications of the student and faculty are assisted with funding from the Research Cell. To promote Innovation and Entrepreneurship activities among the students of LMCST, an Innovation Entrepreneurship and Development Centre (IEDC) was inaugurated on 14 September 2015, with the support of the Kerala Start-up Mission (KSUM). IEDC provides the students of Lourdes Matha College of Science & Technology an opportunity to join the dynamic young entrepreneurs' population and aims to boost the student entrepreneurship activities. IEDC facilitates product development by identifying and promoting student projects of socio-economic impact. LMCST has a dedicated Extension Cell with 28 student members and the Cell adopted Kuttichal Grama Panchayath Pezhummoodu ward no. 14 with a view to extend a helping hand in areas of health care, education and agriculture. The National Service Scheme has two units. With unit numbers :No. 525 in 2015 and No. 529 in 2017 in LMCST and is a vibrant organization with a membership of 162 students The NSS is instrumental in the conduct of awareness activities within and outside the campus. The NSS units of LMCST have been bestowed with the prestigious SAGY award in the year 2018 for its outstanding contribution to society. The NCC is a responsive, learning and continuously

evolving organization. Our college is allotted with NCC Army Wing of cadet strength 160, under 3(K) BN NCC, Poojappura which will help to instill core values in the students.

Infrastructure and Learning Resources

The college campus spreads over an area of 25 acres, providing excellent infrastructural facilities for an effective teaching-learning process. Spacious and well-ventilated 32 classrooms, 13 ICT-enabled classrooms 1 smart classroom, 5 seminar halls and 4 drawing halls are available. The campus building also has 33 laboratories , CNC Machine facility, 3 research laboratory , and 1 language laboratory for the students to improve their communication skills.

The college playground is used to conduct all major sports events such as football matches, cricket matches and athletic events. Indoor games such as chess, caroms, table tennis and gymnasium facilities are also available in the campus. 2 Open auditorium are available for conducting cultural programmes and LOMAA hall and Alphonsa hall is used to conducting technical programmes.

The campus is enabled with Wi-Fi connections and a dedicated bandwidth of 400Mbps. The college has numerous computing facilities with about 364 computers are deployed in various laboratories. Computers are arranged in laboratories and networked through LAN. The institution regularly upgrades IT infrastructure. An adequate budget is allocated for maintenance. The student computer ratio is 2:1 and is maintained in the level to ensure computing facilities are available to all students as per their needs.

The Central library uses Koha software for the library management system. It provides acquisition, cataloging, circulation and serial control modules. The library has a total collection of 8262 titles and 26496 volumes of e-journals. In addition to the central library, 7 department-level libraries are available for specialized reference.

Apart from regular facilities, the institution has an incubation centre, research and development centre, entrepreneurship development centre, ATM facility, canteen and cafeteria are available on the campus. In addition to uninterrupted power supplies for computing systems, a back- up diesel generator is available to meet occasional long-duration power outages. Solar panel, biogas plant facilities are also available in the campus.

All buildings are provided fire and safety measures and have good access for emergency exits. College buses ply through various routes for the safe transportation of students and staff. The gardeners take care of the horticulture, epiculture and maintain lawns on the campus.

Student Support and Progression

The management encourages deserving students by providing merit scholarships viz., Karunya Varsham Scholarships, Lourdes Matha Scholarships, Mar Kavukattu scholarships, and Xavier Institute of Management and Entrepreneurship (XIME) scholarships for economically weak meritorious students. The total number of students benefited by the scholarships provided by the institution is 1251 and Government is 319.

The Placement Cell creates and maintains a strong Industry-Institution tie-up and supports students through streamlined placement training and additional skill development programmes. Industry-Academia interactions are conducted regularly to promote entrepreneurship, industry-relevant skill development, internships and training. Remedial coaching, Career Counseling and Personal Counseling is provided to the required students. Many students are benefited from this scheme. Soft skills and Language Lab are also offered to the students to enhance their communication, comprehensive and aptitude skills. Our students are placed in various reputed companies, including Tier-1 companies like Infosys, Wipro, IBS, IBM, UST Global and Cognizant.

A permanent counseling facility is available to help students overcome personal issues hindering studies and welfare. The institution has a transparent mechanism to redress the problems like ragging cases and

sexual harassment. The college has an RO water purification plant, Canteen and Hostel facilities for both boys and girls separately. The college has Women's Cell and Women's Redressal Cell for the welfare of women and to protect them from harassment.

The College Student Council organizes programs and activities and serves as a platform for students' co-curricular, cultural, social, and educational interests. EQUINOX, an annual intercollegiate techno-cultural fest, is the main cultural extravaganza organized by the students' union during March every year. With regular, expert and supervised coaching, the students participate in sports and games. Sports activities are conducted regularly to bring out their inner skills and improve the physique of the students. Every year, sports and cultural activities and competitions are organized at the institutional level.

Alumni association functions effectively through Alumni Meet and Guest Lectures to exhibit the latest trends in the chosen field. The Alumni Association of the institution "LOMAA" bonds the Alma mater and Alumni and has contributed a lot as financial support to the college facility augmentation.

Governance, Leadership and Management

The college has well defined organizational structure for carrying out its academic and administrative responsibilities. Statutory bodies, Governing Board, College Council and Students' councils are constituted as per the regulations. These committees are responsible for policies, decisions and strategic planning of actions. Institute has a democratic, participative decision-making process and believes in teamwork for governance at different levels. The Principal as the keystone of the college oversees the working of several committees that have been functioning to implement academic and administrative tasks. The decisions taken by various committees are well documented and the actions are implemented. Management Information System (MIS) enables E-governance in all spheres of activities. The Institution offers effective and transparent welfare measures to all the teaching and non-teaching staff. All statutory welfare measures are implemented in the college. Professional development /Administrative training programs are organized by the college every year for teaching and non-teaching staff. Financial support is provided by the institution for attending professional development courses and training. The faculty members actively participate in various functional committees which bring transparency to the governance and innately support teamwork. The students and alumni actively participate in a few committees including, IQAC and their feedbacks are also utilized in governance. Thus, all stakeholders of the college are involved at various levels in governance. Alumni members play an important role in Department Advisory Committee (DAC) and provide suggestions. The "Performance Appraisal" for staff is considered for increments and promotions. Based on the appraisal, focused intensive training programs are provided to staff members to overcome their specific deficiencies. The college conducts internal and external financial audits regularly and proper budgeting is done based on the needs of departments. Auditing in regular intervals makes efficient and effective use and mobilization of available financial resources. A meticulous system ensures no objection in internal/external audits. Internal Quality Assurance Cell (IQAC) aims at continuous enhancement of quality in the teaching-learning process. IQAC meets in regular intervals to take review on ongoing processes and to decide on inputs to strategic plans of the future. The IQAC has significantly contributed to maintaining the quality of academics and management activities.

Institutional Values and Best Practices

The institution develops and maintains the environment of the campus. It conducts green audits, energy audits and environmental with a sense of responsibility. A number of eco-friendly measures have been initiated by the college. To enhance the paperless transactions, all academic-related documents are uploaded in our Campus Management System. To implement the major use of green energy, a 100 kW solar power plant is made

operational on the campus and wheeling of the grid is done by grid-tied solar power. Traditional lighting systems are replaced with LED bulbs. Biogas plants and the vermicomposting pit have been installed in the campus to process food waste and other biodegradable garbage generated on the campus.

Rainwater harvesting systems are installed at many points inside the college. To develop social responsibility among students, encouraged to join in NCC/ NSS units. Through these organizations, several awareness programs like blood donation camps, various health camps and socially relevant activities have been undertaken.

Students and staff members are involved in campus organic farming activities through the NSS Cell. The college organizes NSS camps to promote organic farming and a plastic-free environment among students and faculty. The institution has planted 2000 fruit plants received from Gramapanchayath on the campus and also distributed to staff members and students. The institution conducts awareness classes through Fire & safety and Narcotic cell of Govt. of Kerala. The institution has also conducted medical camps in association with the Department of Homoeopathy, Govt. of Kerala.

The college has conducted Students Aptitude Development Programmes (SADP) and staff members visited 100 schools to popularize science and engineering among school students through demonstrations of modern equipment like 3D printing. Extension Cell and SUKRUTHA charity club motivate students for helping the needy.

The staff advisory system has brought not only qualitative differences in academic performance but also improved self-confidence among students. Mentors interact with parents of students also. Continuous assessment of students through internal exams is being practiced effectively. Grievance redressal cell and anti-ragging committee functions effectively to protect students and secure the campus environment. Providing financial aid to meritorious students is a unique feature of LMCST.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	LOURDES MATHA COLLEGE OF SCIENCE AND TECHNOLOGY
Address	Lourdes Hills, Kuttichal P.O. Thiruvananthapuram -695574
City	THIRUVANANTHAPURAM
State	Kerala
Pin	695574
Website	www.lmcst.ac.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Beshiba Wilson	0472-2853550	9447729207	0472-2851544	principal@lmcst.ac.in
IQAC / CIQA coordinator	Sunil J	0472-2851166	9074041981	0472-2851544	dr.sunilj@lmcst.ac.in

Status of the Institution	
Institution Status	Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	Yes minority.pdf
If Yes, Specify minority status	
Religious	Christian
Linguistic	
Any Other	

Establishment Details	
Date of establishment of the college	16-09-2002

University to which the college is affiliated/ or which governs the college (if it is a constituent college)

State	University name	Document
Kerala	A.P.J. Abdul Kalam Technological University	View Document

Details of UGC recognition

Under Section	Date	View Document
2f of UGC		
12B of UGC		

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)

Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	02-07-2021	12	Yearly renewal

Details of autonomy	
Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	Yes
If yes, has the College applied for availing the autonomous status?	No

Recognitions	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	Lourdes Hills, Kuttichal P.O. Thiruvananthapuram -695574	Rural	25	26691.57

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BTech,Civil Engineering	48	Higher Secondary Education	English	60	39
UG	BTech,Computer Science And Engineering	48	Higher Secondary Education	English	90	70
UG	BTech,Electronics And Communication Engineering	48	Higher Secondary Education	English	60	31

UG	BTech,Electrical And Electronics Engineering	48	Higher Secondary Education	English	30	14
UG	BTech,Mechanical Engineering	48	Higher Secondary Education	English	90	38
PG	Mtech,Computer Science And Engineering	24	B.TECH	English	18	6
PG	Mtech,Electronics And Communication Engineering	24	B.TECH	English	9	1
PG	Mtech,Electrical And Electronics Engineering	24	B.TECH	English	9	2
PG	MBA,Master Of Business Administration	24	ANY DEGREE	English	60	53
PG	MCA,Master Of Computer Applications	24	BCA BSc. Computer Science	English	30	29
Doctoral (Ph.D)	PhD or DPhil,Computer Science And Engineering	36	M.TECH	English	2	0
Doctoral (Ph.D)	PhD or DPhil,Electronics And Communication Engineering	36	M.TECH	English	2	1
Doctoral (Ph.D)	PhD or DPhil,Electrical And Electronics Engineering	36	M.TECH	English	1	0

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	0				0				0			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	5				14				64			
Recruited	4	1	0	5	4	10	0	14	18	46	0	64
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				25
Recruited	6	19	0	25
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				24
Recruited	16	8	0	24
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	1	2	0	1	2	0	2	1	0	9
M.Phil.	0	0	0	0	0	0	1	3	0	4
PG	0	0	0	0	0	0	19	51	0	70
UG	0	0	0	0	0	0	0	0	0	0

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties				
Number of Visiting/Guest Faculty engaged with the college?	Male	Female	Others	Total
		0	0	0

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	124	0	63	0	187
	Female	69	0	32	0	101
	Others	0	0	0	0	0
PG	Male	44	6	0	0	50
	Female	47	1	0	0	48
	Others	0	0	0	0	0
Doctoral (Ph.D)	Male	1	0	0	0	1
	Female	0	0	0	0	0
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years					
Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	3	0	3	2
	Female	3	0	1	1
	Others	0	0	0	0
ST	Male	5	0	0	0
	Female	1	0	0	0
	Others	0	0	0	0
OBC	Male	93	57	42	49
	Female	60	49	29	51
	Others	0	0	0	0
General	Male	63	75	40	57
	Female	56	29	14	36
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		284	210	129	196

Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	<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</p>
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	and Programming in C are provided to all B.Tech students. We encourage our students to do interdisciplinary projects.
2. Academic bank of credits (ABC):	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 credit distribution of M.Tech is S1(22), S2(19), S3(14) and S4 (12) with total mandatory credits of 67
3. Skill development:	Soft skill development programmes in Verbal/non-verbal 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.
4. 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
5. 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

	<p>Indian Engineers compete with their global counterparts. Following are the keypoints of outcome-based 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.</p>
<p>6. Distance education/online education:</p>	<p>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.</p>

Extended Profile

1 Program

1.1

Number of courses offered by the Institution across all programs during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
354	364	365	360	349
File Description		Document		
Institutional data prescribed format		View Document		

1.2

Number of programs offered year-wise for last five years

2020-21	2019-20	2018-19	2017-18	2016-17
11	10	10	10	10

2 Students

2.1

Number of students year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
792	756	819	1012	1232
File Description		Document		
Institutional data in prescribed format		View Document		

2.2

Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
165	165	165	165	240

File Description	Document
Institutional data in prescribed format	View Document

2.3

Number of outgoing / final year students year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
180	247	322	329	435

File Description	Document
Institutional data in prescribed format	View Document

3 Teachers

3.1

Number of full time teachers year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
83	94	124	129	118

File Description	Document
Institutional data in prescribed format	View Document

3.2

Number of sanctioned posts year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
83	94	102	145	160

File Description	Document
Institutional data in prescribed format	View Document

4 Institution

4.1

Total number of classrooms and seminar halls

Response: 14

4.2

Total Expenditure excluding salary year-wise during last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
106.02	233.66	195.04	266.04	268.65

4.3

Number of Computers

Response: 292

NAAC

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1 The Institution ensures effective curriculum delivery through a well planned and documented process

Response:

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. The syllabus is prescribed by the University. Curriculum planning is done such that the teaching program directly reflects the vision and mission of the college. Curriculum planning ensures satisfactory achievement of CO-PO attainment of students measured through set standards.

Curriculum Planning:

At the beginning of every academic year, each Heads of the departments (HOD) conducts meetings for curriculum planning and delivery before the class work commencement and forwards the recommendation of dates for academic calendar to IQAC. The IQAC conducts meetings to develop strategies for effective and quality implementation of the curriculum. The Principal conducts college council meetings with HODs and finalizes the academic calendar proposed by IQAC as per the schedule given by the university along with details of series tests, assignments and other activities like sports, cultural events, seminars, industrial visits and workshops. LMCST follows systematic rules for the allotment of subjects to faculty. HOD conducts a meeting and allocates the subjects based on three major parameters namely experience, area of specialization and previous result analysis of the subject. Faculty members prepare course files which consist of 13 parameters. IQAC Audit team audits the course files, Department-specific files (7 parameters), and Staff Advisor specific files (10 parameters) twice every semester.

Semester Readiness Program:

Before the commencement of regular class work, faculty members should submit the subject notes to HOD along with the Course plan. Faculty members must prepare a workbook based on previous year University questions and important topics.

Curriculum Delivery:

LMCST implements the lecture delivery by chalk and talk, PowerPoint presentations, video lectures/MOOCs, animated videos, case studies, quizzes, study tours, industrial visits. LMCST has 9 ICT-enabled classrooms. As part of the curriculum, cross-cutting issues like Gender Sensitization, Environment and Sustainability, Professional ethics, and Human values are covered. LMCST conducts orientation programs, Induction programs and bridge courses for 1st-year students to help them to understand fundamental concepts and for holistic preparedness in their respective programmes. Various add-on courses, training and certification programs are conducted for all students to make them industry-ready. Faculty members maintain the course register for both theory and lab classes covering the syllabus, session planner, daily attendance, lecture notes, result analysis which ensures the number of periods and the topics

covered. Faculty members conduct revisions every week during tutorial hours using a workbook. The curriculum gaps are bridged through the delivery of contents in the form of alumni talks, guest lectures and workshops.

Every faculty member is assigned a group of students for mentoring throughout the course wherein the students' difficulties, requirements, and suggestions are recorded for the necessary actions related to curriculum implementation. The college encourages faculty to participate in faculty development programs and workshops, to present papers in seminars and conferences for acquiring necessary skills. Timely feedback is obtained from the students and staff. Measures are taken to enforce necessary changes by the HODs and Principal.

File Description	Document
Upload Additional information	View Document
Link for Additional information	View Document

1.1.2 The institution adheres to the academic calendar including for the conduct of CIE

Response:

The institution adheres to the university given time line in an effective manner 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 like commencement of classes, completion of syllabus, series tests, assignment submissions, project presentation, end semester, practical and project viva-voce examinations, meetings of course/class committee, staff advisory committee, academic audit and other dates like important functions of the institution and Government, holidays, seminars, industrial visits and FDPs 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 by adopting the strategy of 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. In case of any change in the University schedule, appropriate changes are made in the internal evaluation as well. These changes are communicated to the students well in advance. However, all efforts are made by the institution to adhere to the academic calendar for CIE. To make the students better prepared for the end semester examinations, additional measures are taken by the institution. Some of them are: 1. Faculty members conduct class tests/ tutorials on the related topic. 2. Work books are prepared by the teachers covering important topics and questions from previous years university examinations and these are discussed with the students in the tutorial classes or given as assignments. 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 following activities.

a)Curriculum Activities : The academic diary includes the complete teaching learning process. It also contains a teaching plan and execution of activities. Students have to submit project proposals and areas of interest to the department project coordinator along with their project group members. The Project Assessment Board (PAB) meets at different phases such as analysis, design and implementation & deployment to meet the requirements. Biweekly reviews assess the performance of students. Comprehensive exam for the pre final year students and Technical seminar for the final year students are also conducted by the institute in adherence to the university guidelines.

b) Extra-curricular activities: The academic calendar gives a particular duration for the conduct of extracurricular and social activities like NSS, NCC, sports events, arts festivals, Annual Inter Collegiate Techno Cultural Fests like EQUINOX, Crest and industrial visits.

File Description	Document
Upload Additional information	View Document
Link for Additional information	View Document

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 last five years

1. Academic council/BoS of Affiliating university
2. Setting of question papers for UG/PG programs
3. Design and Development of Curriculum for Add on/ certificate/ Diploma Courses
4. Assessment /evaluation process of the affiliating University

Response: C. Any 2 of the above

File Description	Document
Institutional data in prescribed format	View Document
Details of participation of teachers in various bodies/activities provided as a response to the metric	View Document
Any additional information	View Document

1.2 Academic Flexibility

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

Response: 90.91**1.2.1.1 Number of Programmes in which CBCS / Elective course system implemented.**

Response: 10

File Description	Document
Minutes of relevant Academic Council/ BOS meetings	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document
Link for Additional information	View Document

1.2.2 Number of Add on /Certificate programs offered during the last five years**Response:** 60**1.2.2.1 How many Add on /Certificate programs are offered within the last 5 years.**

2020-21	2019-20	2018-19	2017-18	2016-17
13	21	13	11	2

File Description	Document
List of Add on /Certificate programs	View Document
Brochure or any other document relating to Add on /Certificate programs	View Document
Any additional information	View Document
Link for Additional information	View Document

1.2.3 Average percentage of students enrolled in Certificate/ Add-on programs as against the total number of students during the last five years**Response:** 40.63**1.2.3.1 Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
448	463	356	340	102

File Description	Document
Details of the students enrolled in Subjects related to certificate/Add-on programs	View Document
Any additional information	View Document

1.3 Curriculum Enrichment

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

Response:

The institution has taken all efforts to integrate cross-cutting issues like gender sensitization, environment sustainability, human values and professional ethics 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).

Gender Sensitization:

The institution has the responsibility to build gender sensitivity among the students and staff members. The value of gender equity needs to be integrated into the learning process through the curriculum.

The course which addresses cross-cutting issues related to gender is:

1. Constitution of India MCN 202

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.

To eradicate the dowry system and reinforce the commitment of the academic community towards gender justice and social empowerment, provisions are made now to obtain dowry declaration from the students at the time of admission. Gender equity programs like webinars on "An overview on dowry and its related offences" are conducted through which students are made aware of the equality of men and women in society.

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. The students should realize the potential of technology in bringing in sustainable practices and understand how the engineering approaches can enhance environmental quality. The courses which address cross-cutting issues related to the environment and sustainability are:

- 1) Sustainable Engineering MCN 201
- 2) Disaster Management CE 369
- 3) Environment and Pollution CE 371
- 4) Geo-Environmental Engineering CE 465
- 5) Air Quality Management CE 374
- 6) Environmental Engineering I CE 405
- 7) Environmental Engineering II CE 402
- 8) Environmental Engineering Lab CE 431
- 9) Environmental Impact Assessment CE 469 & CE 482

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. KTU has introduced various courses so that they can imbibe and practice human values. It aims at instilling moral and social values, loyalty and also to learn the rights of others. 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.

Human Values:

The courses which address cross-cutting issues related to human values are:

1. Professional Ethics (HUT 200)
2. Life Skills (HUT 101)
3. Cyber Laws and Ethics (01CS6176)
4. Professional Communication (HUT 102)
5. Constitution of India MCN 202
6. Principles of Management HS 300
7. Introduction to Business 20MBA101
8. Ethics Governance and Corporate Responsibility 20MBA113
9. Organizational Behaviour 20MBA105

Professional Ethics:

The courses which address cross-cutting issues related to professional ethics are:

1. Professional Ethics (HUT 200)
2. Life Skills (HUT 101)
3. Cyber Laws and Ethics (01CS6176)

File Description	Document
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	View Document
Any additional information	View Document

1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years

Response: 5.12

1.3.2.1 Number of courses that include experiential learning through project work/field work/internship year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
11	16	28	20	17

File Description	Document
Programme / Curriculum/ Syllabus of the courses	View Document
MoU's with relevant organizations for these courses, if any Average percentage of courses that include experiential learning through project work/field work/internship	View Document
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	View Document
Any additional information	View Document

1.3.3 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)**Response:** 45.2**1.3.3.1 Number of students undertaking project work/field work / internships**

Response: 358

File Description	Document
List of programmes and number of students undertaking project work/field work/ /internships	View Document
Any additional information	View Document

1.4 Feedback System

1.4.1 Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders 1) Students 2)Teachers 3)Employers 4)Alumni

Response: A. All of the above

File Description	Document
Any additional information (Upload)	View Document
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management (Upload)	View Document
URL for stakeholder feedback report	View Document

1.4.2 Feedback process of the Institution may be classified as follows: Options:

- 1.Feedback collected, analysed and action taken and feedback available on website**
- 2.Feedback collected, analysed and action has been taken**
- 3.Feedback collected and analysed**
- 4.Feedback collected**
- 5. Feedback not collected**

Response: B. Feedback collected, analysed and action has been taken

File Description	Document
Upload any additional information	View Document
URL for feedback report	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average Enrolment percentage (Average of last five years)

Response: 41.14

2.1.1.1 Number of students admitted year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
284	210	129	196	243

2.1.1.2 Number of sanctioned seats year wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
456	474	474	534	690

File Description

Document

Institutional data in prescribed format

[View Document](#)

Any additional information

[View Document](#)

2.1.2 Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (exclusive of supernumerary seats)

Response: 48.02

2.1.2.1 Number of actual students admitted from the reserved categories year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
105	91	55	75	102

File Description

Document

Average percentage of seats filled against seats reserved

[View Document](#)

Any additional information

[View Document](#)

2.2 Catering to Student Diversity

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

Response:

Assessment of learning levels :

The students are divided into two categories – slow learners and advanced learners and are categorized as given below:

Entry-level:

The college organizes a two week Induction Program for the new batch students every year before the actual commencement of classes. The program helps the students to get familiar with the Institution, curricular and co-curricular activities, facilities, rules and regulations of the University and Institution. Training on communication skills, personality development, life skills, creative skills, mentoring, time management and motivational sessions are also given.

Apart from that college has conducted orientation programs and bridge courses to equip the students to a professional educational course. A detailed course plan will be prepared and continuous evaluation of students is done. As part of the orientation programme, a special test is conducted for the first-year students after admission and categorized as slow learners with less than 50% marks and advanced learners with 50% and above marks. Toppers of the induction training programs are identified and awarded.

Proper guidance can be planned using the entry-level assessment results.

From this assessment, their progress is monitored continuously. It is cross verified with the results of internal examinations in each semester to keep track of the progress made by the student.

II/III/IV Year Students - As per 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.

Special Programs for Slow learners:

After identifying the slow learners, the list of slow learners is approved by HOD to conduct the following programs like remedial classes and extra classes.

Learning material prepared by the concerned faculty members is verified by the expert committee and uploaded in the portal regularly for students' reference. Evaluation methods like Weekly tutorial, Class tests, Classroom interaction, Group discussion are adopted by the institution

The bonding developed between parents, teachers and students is strong, focused and positive to support the student learning system. Frequent meetings are organized with the parents after every internal exam. The respective faculty members, advisors, HOD and Principal discuss with parents and students and remedial measures are implemented based on this discussion. The performance of the students in the internal tests is evaluated and meritorious students are appreciated.

Special Programs for Advanced Learners:

Advanced Learners are identified based on the internal assessment and the previous semester marks. They are encouraged to aim for University ranks, appear for competitive exams, be members of professional bodies under which various technical events are organized, attend or coordinate various technical fests and national seminars, take leadership in various clubs/Technical associations, participate in various college-level committees and enhance their skills through these activities, practice aptitude and soft skills training to crack the interviews for placements, take up innovative projects, publish papers and present their project in project Expo and apply for various government educational project funding.

Advanced learners are advised to take up Honours and Minor programmes of KTU.

File Description	Document
Upload any additional information	View Document
Past link for additional Information	View Document

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

Response: 9.54

File Description	Document
Any additional information	View Document

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

Response:

The college focuses on imparting technical knowledge, which enhances critical thinking and gives scope for creative imagination among students so that when they grow up and become responsible citizens of the country.

The Institution follows the student-centric methods that are used for enhancing the learning experiences of

students to implement Outcome Based Education (OBE) such as Experiential learning, Participative learning and Problem-solving methodologies

Experiential Learning:

The students are provided with lab experiments which are bound to follow the curriculum set by the university.

Additional Lab Experiments

The students are given time slots to do additional experimental work by the faculty members to improve experiential performance. In mechanical workshop, plumbing, sheet metal, casting, welding, carpentry and foundry works are taught in first year. Industry oriented training with CNC machine and lathe operations are also included as additional resources. In Electronics laboratories, students are trained with Logix Pro, ladder logic CNC programming PLC and inverted pendulum control-lab view and MATLAB. In Civil laboratory, Rockwell hardness test is conducted as an additional experiment. Additional lab experiments are conducted in computer laboratory courses especially programming in C and OOP using Java.

Library e-resources

The library is committed to providing quality service and a rich collection of materials to support the mission, goals, educational and research needs of scholars, staff, faculty, administration, users and in support of the College's diverse curriculum. A period per week is assigned for the students to access the library during college hours.

Industrial Visits

Two industrial visits per year are planned to provide industrial exposure and hands-on experience with the practical implementation of the latest technologies, which empower the students to meet the industry requirements.

Student Internships

Students are also encouraged to undergo internships during academic semester breaks in relevant industries. This allows them to gain practical experience of the technology which enhances their career skills.

Hands-on workshops

Various hands-on workshops are organized department-wise by the industrial experts.

Participative Learning:

The students are allowed to participate in the various activities organized by the institution.

Placement Related Learning enhances student employability skills and achieve good placement in various Industries. To improve the placement skills, the institution organizes training such as aptitude classes, soft skill classes are included as part of regular timetable.

Technical Activities

The institution organizes various technical activities like Workshops, Seminars, Guest lectures, Eminent Lecture series, Department association activities, Session Quiz, Debates, Conference, Gamification, Role-play, Mind mapping, Industry connect, Alumni interactions to enhance the learning skills of students.

Problem-solving methodologies: This enables the students to learn new knowledge by facing the problems to be solved. The students are expected to observe, understand, analyze, interpret solutions, and perform applications that lead to a holistic understanding of the concept.

Tutorial hours are included in the academic timetable for all subjects. During this hour, extra problems and previous years' question papers are worked out. Brainstorming session facilitates multiple brains focus on single idea and involves all the students into the discussion. Brainstorming possible solutions, devising and executing solutions, and evaluating the results.

File Description	Document
Upload any additional information	View Document
Link for additional information	View Document

2.3.2 Teachers use ICT enabled tools for effective teaching-learning process.

Response:

The institution follows the different methodologies to deploy 'Innovation and Creativity' in the teaching-learning process. Teachers use various ICT enabled tools to enhance the quality of teaching-learning.

ICT facilities of the institution include 13 ICT-enabled classrooms and 1 Smart classroom and 4 Seminar halls with high-speed internet connectivity. The media room has video recording facility with digital camera. The seminar halls are digitally equipped with mike, projector, and computer system.

Learning through Moodle platform enables the creation of a course website and helps educators to create effective online courses.

Flipped classroom, a blended learning strategy aims to increase student involvement and learning at their home and work on live problem-solving during class time.

Concept-Based Animated Videos are used for enhanced learning.

Integration of NPTEL in Teaching Learning provides additional course-ware in the form of video lectures and web courses.

Virtual classroom enhances learning skills of students by active involvement during lectures and exchanging ideas.

Virtual labs are used to conduct experiments through digital simulation which allows students to participate in lab-based learning exercises without the limitations of a physical lab.

Experiential Learning methods enhance students' practical knowledge as well as evaluate the concepts acquired by them.

Online Vidyalaya platform developed by the college ensured the learning process in a timely manner. Recorded videos, lecture notes, activity works and weekly quizzes are uploaded to evaluate the learning level of students.

Campus Management System (CMS) is used to manage and upload the course related information which enables students to learn using the video lectures and learning materials uploaded by teachers. Quizzes, lab submissions and evaluations, assignments are also conducted using CMS. Complete assessments of students are made available for parents.

YouTube video lectures by faculty members motivate the learners, and e-Learning community is also generated.

Webinars are conducted through video conferencing softwares which allow participants of different locations to listen to the presenter and provides better interaction between the students and the instructor.

Spoken Tutorial: The institution has provided access to spoken tutorial, an initiative of NMEICT, MoE Govt. of India to promote IT literacy through Open Source Software for students.

Learning through MOOCs resources: MOOCs helps students to acquire quality education and get access to the best educational content through online mode.

Online tools for gamified and Interactive online teaching are used for effective teaching learning process. The online tools used are

- Mentimeter and Quizizz - Quizzes (<https://www.mentimeter.com/>)
- Crosswordlab – Interactive learning (www.crosswordlab.com)
- Proprofs – crossword puzzles, Hangman puzzles and scramble word (www.proprofs.com)

Websites created using wordpress by faculty members are also used as learning resources.

DELNET provides access to the major digital library resources in south Asia.

Technology Enabled Learning resources like ASAP online courses, Skill Delivery Platform Kerala, and National Educational Alliance for Technology partnering with industry resources are delivered by university as learning resources.

The IQAC plays an important role in developing a quality culture at the institutional level, like policy design, support to the organization and internal quality assurance systems, program monitoring, teaching and learning support.

File Description	Document
Upload any additional information	View Document
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	View Document

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

Response: 14.14

2.3.3.1 Number of mentors

Response: 56

File Description	Document
Upload year wise, number of students enrolled and full time teachers on roll.	View Document
mentor/mentee ratio	View Document
Circulars pertaining to assigning mentors to mentees	View Document

2.4 Teacher Profile and Quality

2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years

Response: 96.86

File Description	Document
Year wise full time teachers and sanctioned posts for 5years(Data Template)	View Document
List of the faculty members authenticated by the Head of HEI	View Document
Any additional information	View Document

2.4.2 Average percentage of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)

Response: 4.66

2.4.2.1 Number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. year wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
6	6	5	4	3

File Description	Document
List of number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. and number of full time teachers for 5 years (Data Template)	View Document
Any additional information	View Document

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

Response: 8

2.4.3.1 Total experience of full-time teachers

Response: 664.23

File Description	Document
List of Teachers including their PAN, designation, dept and experience details(Data Template)	View Document
Any additional information	View Document

2.5 Evaluation Process and Reforms

2.5.1 Mechanism of internal assessment is transparent and robust in terms of frequency and mode

Response:

LMCST has adopted different mechanisms and established a centralized “series exam cell” at the institution level, which is constituted with at least one member from each department for maintaining transparency and robustness. The frequency of internal assessment is as required by KTU.

Mechanism of Summative Assessment

- The University publishes academic calendar which is the main reference for all the academic activities.
- The institution academic calendar is prepared with assessment dates which are communicated to students at the very beginning of the semester and displayed on the notice board.
- All assessment processes are followed as per the rules and regulations of the affiliated university KTU.
- Internal assessment is done twice in a semester for theory subjects.
- Continuous assessment for practical and assignments are conducted as per university norms.
- The question papers are prepared by the concerned faculty and scrutinized and approved by the concerned HOD.
- Scrutiny covers question paper verification and mapping with course outcomes.
- Final year students are additionally assessed by technical seminars and major projects as per university schedule.
- The Department committee evaluates the final year seminar, design/ mini projects, comprehensive viva and major projects.
- The project progress evaluation is done by the Project Assessment Board (PAB) which includes the Chairman (HOD), Project supervisor, one faculty from the Department, another faculty from the sister Department and an external expert from academic/ research institute/ industry.
- PAB meets at different phases such as Analysis, Design and Implementation & Deployment to evaluate and guide in all phases.
- Biweekly reviews are conducted by the project supervisor for 20% marks.
- Project Panel is uploaded into the KTU Web portal and major Project Evaluation is done for 80% marks and the same will be uploaded into the portal.

- Comprehensive Viva-Voce will be assessed by written examination for 50% marks and oral examination for 50% marks by an External Expert from other institutions/ industry.
- Technical Seminar is conducted internally for 50% marks by the Internal Committee for Seminar and Project Preliminary course.

Mechanism of Formative Assessment

Group discussions enhance the confidence level, ability to communicate in groups and mutual respect. Quizzes help students to prepare for the placement activities, competitive examinations and interviews. Innovative ideas and out of box solutions can be created from small group brainstorming discussions and the ideas are discussed with the IEDC cell for the development of product. Students will get an idea on industrial practices through the frequent Industrial Visits and can connect it with their academic learning. Club activities at department level encourage students to coordinate and participate in the various club activities in the college, which improves the soft and organizing skills of students. Module wise work book test is conducted to identify the potential of students and to improve their performance in the final exams. The Students' observation, analysis and interpretation skills to a problem can be assessed from the tutorial works. Student's passion, knowledge on topic and presentation skills can be assessed through seminar presentation.

File Description	Document
Any additional information	View Document
Link for additional information	View Document

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

Response:

LMCST strictly follows the academic calendar published at the beginning of every academic year. A grievance committee is constituted at the institution level with a senior faculty as the convener and teachers from each Department as members to oversee the examination-related grievances, time-bound, and efficient resolution.

Grievance Redressal is done as follows:

The centralized "series exam cell" and "university examination cell" are confidential sections for the smooth conduction of internal and external examinations with proper maintenance of student records. The University Examination cell coordinates with the KTU regarding all matters related to the examination. Periodic regular meetings and discussions with the Principal and exam cell members ensure the efficiency of the examination system. All examination-related queries are sent to the university and are being dealt

with by the cell confidentially.

Departmental Level:

The planning of internal assessments, course/class committee meetings, and university examinations are done well in advance and evaluations are completed on time as per academic calendar. The grievances related to examinations, if any, are reported to the advisor and are forwarded to the Principal by HoD. The absence in series exams with genuine reasons will be considered for retest.

College Level:

The representation of students will be forwarded to the university from the college immediately after the examination. Regarding any grievances related to University question papers such as out of syllabus, repeated questions, marks missed, wrong question number and wrong weightage from modules during semester exams, the Chief Superintendent would take up the matter with the University.

University level:

Student's grievances are addressed by the university promptly and published on the website. Question papers of concerned course are collected from different colleges and scrutiny of the collected question papers is performed by senior faculty members of different colleges. The verification is made based on the syllabus of the concerned course and regulations of the university and one question paper is finalized by the question paper setting committee. Grievance representation received from students regarding question paper, if any, is considered before valuation to ensure transparency in a time-bound and efficient manner.

If the student is not satisfied with the result they can apply for revaluation/scrutiny of answer sheets. For scrutiny, a copy of the answer scripts will be available in the student's login and updated information will be given to the student within 15 to 30 days. The students can apply for revaluation of answer scripts by remitting the requisite fee. The final mark awarded will be the best of the two marks. If the difference in marks obtained in revaluation and the original valuation is more than 15% of the maximum marks, it will be sent for third valuation. The final mark will then be the average of the closer of the two marks obtained in the three valuations to the advantage of the student. If this average mark is less than the original mark, the original mark will be retained. If there is 15% or more improvement in the revaluation marks, the fee collected will be refunded.

File Description	Document
Any additional information	View Document
Link for additional information	View Document

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.

Response:

Preparation and Dissemination of Program Outcomes, Program Specific Outcomes, and Course Outcome

Outcome-Based Education (OBE) is implemented to emphasize what is expected from the students when they finish their course in the form of Course Outcomes. In line with Course Outcomes, Program Specific Outcomes (PSOs) and Program Outcomes (POs) are then attained to measure the performance of the students. This OBE is mandatory for all regulating bodies like NBA, NAAC, and other Accreditation Councils. A set of Program Outcomes are given by the AICTE to be followed by all the institutions. Keeping all the Program Outcomes in mind every Department prepares its Program Specific Outcomes. The Program Outcomes were defined by AICTE and Program Specific Outcomes are defined by the advisory committee of each Department. After formulating the PSO it should be approved by the IQAC cell of the college for its finalization. Attainment of the PO and PSO will be reviewed by the advisory board in every academic year and corrective action if required will be taken. Course outcomes of each subject will be defined by the faculty handling the subject and are finally approved by HOD.

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.

Procedure for preparation of Program Specific Outcomes and Course Outcomes

- Every Department of the institution states its Program Specific Outcomes (PSOs) specific to the Department with respect to the Program Outcomes (POs) given by AICTE.
- PSOs are prepared and finalized by the Department Advisory Committee (DAC) along with the Head of the Department
- Course outcomes are direct statements that describe the essential and enduring disciplinary knowledge and abilities that students should possess and the depth of learning that is expected upon completion of a course. The course outcomes are formulated by the course instructor before the commencement of class and get approved by the Head of the Department.
- Finally, the PSOs are approved by HODs, IQAC, and the Head of the institution
- After finalization of all the POs, PSOs, and COs they are then disseminated to all the students and faculty members

Mechanism for Communicating Program Outcomes, Program Specific Outcomes and Course Outcomes to Teachers and Students

Every Department of the institution publishes its Program Specific Outcomes (PSOs) along with the Program Outcomes (POs) given by AICTE and Course Outcomes (COs) of all its courses on the college website. POs and PSOs are displayed in staff rooms, offices of heads of Departments, all the classrooms, corridors, and laboratories. Students and staff are made aware of these through various meetings, classroom teaching, lab experiments and interactive sessions. Program Outcomes (POs) and Program-

specific Outcomes (PSOs) are discussed in the student induction program, to get a clear idea of what they are going to learn. The course outcomes are also communicated to students through question papers of internal and assignment tests wherein each question is mapped with the appropriate course outcome.

File Description	Document
Upload COs for all Programmes (exemplars from Glossary)	View Document
Upload any additional information	View Document
Past link for Additional information	View Document

2.6.2 Attainment of programme outcomes and course outcomes are evaluated by the institution.

Response:

The procedure adopted by our institution for evaluating the attainments of Program Outcomes, Program Specific Outcomes and Course Outcomes is given below.

The process of obtaining COs, POs, and PSOs begins with the finalization of COs for each course in the programme from the first to the fourth year. The concerned faculty members discuss the course outcomes provided by Kerala Technological University, and COs are finalized. Then, on a scale of 1 to 3, a correlation between COs and POs is developed, with 1 denoting a slight (low), 2 denoting a moderate (medium), and 3 denoting a significant (high). In this regard, a mapping matrix is created for each subject in the curriculum, including elective courses. Before they are finalized, a committee of senior faculty members reviews the course outcomes and their mapping to POs on a regular basis. For all courses in the programme, there is a correlation between course outcomes and programme outcomes (POs) and Program Specific Outcomes (PSOs). The PSOs are in tune with the professional bodies' and society's expectations.

Procedure for attainment of POs/ PSOs:

The program's objectives will be met through both direct and indirect means.

- Direct Attainment: We'll look at all of the courses that are linked to a specific PO. The direct attainment value will then be determined using the formula given below:

$$\text{Direct PO Attainment} = \frac{\text{Sum of the average attainment level of the course outcomes mapped to a PO}}{\text{Total number of courses}}$$

- Indirect Attainment: In this method, we consider the feedbacks of students on the framed questionnaires.

Final PO attainment= 80% of Direct attainment + 20% Indirect attainment

The five target levels are as follows :

- Level 1 (Poor) : 0.5 <= PO attainment value < 1
- Level 2 (Average)) : 1 <= PO attainment value < 1.5
- Level 3 (Good) :1.5 <= PO attainment value < 2
- Level 4 (Very Good) : 2 <= PO attainment value < 2.5
- Level 5 (Excellent) : 2.5 <= PO attainment value <= 3

Target levels for achieving POs/ PSOs will be set based on the previous year's performance. Same procedure will be used for obtaining attainment of PSOs.

Procedure for attainment of COs:

The student performance in internal and external examinations is used to determine the attainment level of all course outcomes for each course. Similarly, receiving indirect feedback at the end of the course aids in the evaluation of the course's outcome. As a result, CO achievement is a result of both direct and indirect assessment. Direct Attainment of CO = 16% of CO attainment in internal examination + 64 % of CO attainment in the external examination + 20% Course exit feedback and indirect feedback. Thus overall attainment of CO = 80% CO attainment from Direct method + 20 % of CO attainment through Indirect method. Target level for attainment of CO's will be set based on course outcome of that course in the previous academic year

File Description	Document
Upload any additional information	View Document
Paste link for Additional information	View Document

2.6.3 Average pass percentage of Students during last five years

Response: 45.38

2.6.3.1 Number of final year students who passed the university examination year-wise during the

last five years

2020-21	2019-20	2018-19	2017-18	2016-17
74	73	79	156	237

2.6.3.2 Number of final year students who appeared for the university examination year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
174	189	178	343	424

File Description	Document
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	View Document
Upload any additional information	View Document
Paste link for the annual report	View Document

2.7 Student Satisfaction Survey**2.7.1 Online student satisfaction survey regarding teaching learning process****Response:** 3.5

File Description	Document
Upload database of all currently enrolled students (Data Template)	View Document
Upload any additional information	View Document

Criterion 3 - 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, Chairs in the institution during the last five years (INR in Lakhs)

Response: 5

3.1.1.1 Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
0	3	0	2	0

File Description	Document
List of endowments / projects with details of grants	View Document
e-copies of the grant award letters for sponsored research projects / endowments	View Document
Any additional information	View Document

3.1.2 Percentage of teachers recognized as research guides (latest completed academic year)

Response: 1.2

3.1.2.1 Number of teachers recognized as research guides

Response: 1

File Description	Document
Institutional data in prescribed format	View Document

3.1.3 Percentage of departments having Research projects funded by government and non government agencies during the last five years

Response: 8.57

3.1.3.1 Number of departments having Research projects funded by government and non-government agencies during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
0	2	0	1	0

3.1.3.2 Number of departments offering academic programmes

2020-21	2019-20	2018-19	2017-18	2016-17
7	7	7	7	7

File Description	Document
Supporting document from Funding Agency	View Document
List of research projects and funding details	View Document
Any additional information	View Document
Paste link to funding agency website	View Document

3.2 Innovation Ecosystem

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

Response:

Innovation Ecosystem

LMCST nurtures an innovation ecosystem to systematically cultivate entrepreneurship and a research environment for faculty and students. Innovation is facilitated through the following Cells:

Research Cell:

The institute gives predominant importance to Research and conducts research activities through Research cell. Established in 2018, Research Cell has undertaken the conduct of various programs to support research. The quality of research publications is maintained by using plagiarism checker software. The research cell has formulated an IPR cell in the year 2019 to provide support and information regarding patents. LMCST Journal of Engineering and Technology (ISSN 2278-2672) is an annual journal published by the Research Cell. The faculty and students are encouraged to publish their innovations and research works in the journal.

Innovation and Entrepreneurship Development Cell (IEDC)

The IEDC established in the year 2017, is a flagship initiative of Kerala Startup Mission which aims for the

overall development of entrepreneurial skills and abilities among the student fraternity. Awareness programs, seminars, workshops, hands-on training programs, skill development programs have been organized under the cell. The IEDC recently launched the Product Development Initiative (PDI) with the mandate “one-faculty one-product” per year with students’ participation to develop innovative products of societal need.

Intellectual Property Rights (IPR) Cell

Under Research Cell, an IPR cell is established in the year 2019 which guards the intellectual property rights of incubates faculty & students and disseminates the knowledge on IPR by conducting webinars. Primary evaluation of four patents submitted by faculty members is completed and is expected to be granted soon.

Technical Incubation Centre (TIC)

Every department is equipped with a TIC to promote product development from the pre-final year onwards so as to motivate the students to come up with innovative projects during their final year of studies.

Following are the initiatives were taken for the creation and transfer of knowledge:

1. Industry Institute Interaction Cell

Frequent meetings are conducted with CEOs and Entrepreneurs of companies to discuss the joint participation of industries in conducting various industry-related activities in the institution. MOUs are signed between the institution and the industry with the following objectives:

- To enhance the skills and knowledge of the student community by providing add-on courses, internships, placement, bridge the skill gap and make them industry-ready
- To give valuable inputs regarding curriculum design
- To deliver eminent lectures to the students on the technology trends and in-house requirements.
- To organize industrial training and visits which provides an insight into the latest developments/ requirements of the industries
- To conduct joint research activities
- To train the faculty members for imparting industrial exposure/ training.

2. Massive Open Online Courses (MOOC) – Students are encouraged to enroll in MOOC courses of Swayam, NPTEL and spoken tutorials of IITB.

3. IIT Bombay Remote Centre (RC ID 1094)– High-quality training and workshops are conducted for students and teachers. Our institution is a five-star rated RC of IIT Bombay.

4. Indian Institute of Remote Sensing (IIRS) Dehradun – Network Institute - Conducted online courses for students.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

3.2.2 Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years

Response: 34

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

2020-21	2019-20	2018-19	2017-18	2016-17
9	3	9	9	4

File Description	Document
Report of the event	View Document
List of workshops/seminars during last 5 years	View Document

3.3 Research Publications and Awards

3.3.1 Number of Ph.Ds registered per eligible teacher during the last five years

Response: 1

3.3.1.1 How many Ph.Ds registered per eligible teacher within last five years

Response: 1

3.3.1.2 Number of teachers recognized as guides during the last five years

Response: 1

File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	View Document
URL to the research page on HEI website	View Document

3.3.2 Number of research papers per teachers in the Journals notified on UGC website during the last five years

Response: 0.84

3.3.2.1 Number of research papers in the Journals notified on UGC website during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
9	6	9	13	55

File Description	Document
List of research papers by title, author, department, name and year of publication	View Document
Any additional information	View Document

3.3.3 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

Response: 0.05

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 last five years

2020-21	2019-20	2018-19	2017-18	2016-17
1	0	1	1	2

File Description	Document
List books and chapters edited volumes/ books published	View Document
Any additional information	View Document

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 last five years.

Response:

LMCST has NSS and extension cell for social services, Sukrutha Club for charity activities in the local community

◦ **NSS**

The National Service Scheme has two units. No 525 in 2015 and No 529 in 2017 in LMCST and is a vibrant organization with a membership of 162 students. Every year NSS cell organizes a blood donation camp and donated 212 units of blood to date. Students are made aware of the importance of blood donations, cleanliness, plastic, water conservation, farming, use of drugs, cancer detection, spreading of chickenpox & BHIM app in the local community as well as in the college.

The NSS cell conducts special camps for our students which equips them to take up any challenges in life. The international yoga day is celebrated every year by giving training to both teachers and students and encouraging students to practice yoga by NSS Volunteers..

The activities of NSS cell includes:

- Visits to tribal communities of Kuttichal Grama Panchayat to supply provisions
- Vegetable farming in the college which was broadcasted and telecasted by Ananthapuri FM & Doordarshan respectively.
- Organized anti-narcotics campaigns in association with the Excise Department and is enlisted under Vimukthi Program under the Excise Department of Kerala.
- Celebrated teacher's day, world water day, blood donor days, doctor's day, national reading day, Suchithva Harthal and distribution of paper bags to the local community
- Volunteered for the flood-relief program under the Kottayam district administration in the year 2018.
- Contributed to the open street map software by adding details of the location which will be of utmost use in times of flood & other natural calamities.

EXTENSION CELL

Established in the year 2019 with the objective to extend helping hands to the underprivileged section of the society through the LMCST community. A MoU on ward adoption was signed between LMCST and Kuttichal Grama Panchayat Pezhummoodu ward no. 14 to provide awareness programs and camps in health care, education, and agriculture. Distributed food kits and masks donated by NSS technical cell to Covid-19 patients and those in quarantine.

- **Sukrutha Club:** Started in the year 2016, the club coordinates activities such as blood donation, cancer awareness programs and crowdfunding leadership of the Department of Mechanical Engineering.
- **On the Job Trainings:** The Department of EEE & MCA conducted On The Job training for the

VHSE students of Olathanni and VHSS Poovachal respectively.

- **FORZA Club:** The Department of MCA coordinates computer training for the students of the tribal community every year from 2019 onwards.
- As a part of bridging the technological gap, LMCST organized an open-access exhibition “**SEE 2K17,**” on the college campus from October 5 to 6, 2017 which witnessed the participation of almost 7500 students from various schools in and around Trivandrum .
- The quiz club of LMCST conducted the all Kerala quiz competition **EUREKA-2019**, to develop a scientific and engineering aptitude among higher secondary students.
- **NCC** : A dedicated Army wing of cadet strength 160, under 3(K) BN NCC, Poojappura promotes character, comradeship... in students

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

3.4.2 Number of awards and recognitions received for extension activities from government/ government recognised bodies during the last five years

Response: 2

3.4.2.1 Total number of awards and recognition received for extension activities from Government/ Government recognised bodies year-wise during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
1	0	0	1	0

File Description	Document
Number of awards for extension activities in last 5 year	View Document
e-copy of the award letters	View Document
Any additional information	View Document

3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years

Response: 24

3.4.3.1 Number of extension and outreach Programmes conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
2	7	4	2	9

File Description	Document
Reports of the event organized	View Document
Number of extension and outreach Programmes conducted with industry, community etc for the last five years	View Document
Any additional information	View Document

3.4.4 Average percentage of students participating in extension activities at 3.4.3. above during last five years

Response: 17.19

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 last five years

2020-21	2019-20	2018-19	2017-18	2016-17
23	212	129	196	245

File Description	Document
Report of the event	View Document
Average percentage of students participating in extension activities with Govt or NGO etc	View Document

3.5 Collaboration

3.5.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year

Response: 1

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

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	1	0

File Description	Document
e-copies of related Document	View Document
e-copies of related Document	View Document
Details of Collaborative activities with institutions/industries for research, Faculty exchange, Student exchange/ internship	View Document
Any additional information	View Document

3.5.2 Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the last five years**Response:** 17**3.5.2.1 Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
5	5	5	1	1

File Description	Document
e-Copies of the MoUs with institution/ industry/corporate houses	View Document
Details of functional MoUs with institutions of national, international importance, other universities etc during the last five years	View Document
Any additional information	View Document

Criterion 4 - 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.

Response:

LMCST provides adequate physical infrastructural facilities which includes classrooms, smart classroom, ICT enabled classrooms, laboratories, seminar halls, drawing halls, play grounds, conference hall, canteen, parking area and hostels as per the regulatory requirements of AICTE and A P J Abdul Kalam Technological University. The College has a spacious green campus of 25 acres with 26691.57 sq. mts built-up area

Classrooms (32):- Spacious classrooms with proper infrastructure including a Wi-Fi facility.

Tutorial Rooms(12):-Conducting tutorials and special remedial classes.

Laboratories (36):-The institution has well-equipped laboratories and 3 research laboratories. 3-D printer and advanced CNC machine facility is also available in the Mechanical Laboratory. Computer laboratories are installed with licensed software as well as open-source software and maintained to meet the KTU curriculum requirement.

Language Laboratory (1): - The college has a language laboratory to assist the students to develop their communication skills. The laboratory has both audio and video facilities.

Central Library and 7 department libraries are available in the college

Seminar Halls (4) :- These halls are used for conducting seminars, workshops, and other programs. The students are regularly encouraged for active involvement in the quiz, group discussions, and other activities.

Drawing halls(4) :-These halls are used for conducting exams and civil engineering drawing purposes.

Open Auditorium (2): - An open auditorium with a seating capacity of 1500 and a mini-open auditorium is located in front of the Computer Science and Engineering Department with a seating capacity of 500. These auditorium are used for cultural programmes.

Alphonsa hall: - A closed auditorium is located on the campus with a seating capacity of 250. This auditorium is used for conducting seminars and other technical events.

Canteen and Cafeteria: - Canteen and Cafeteria facilities available for students and staffs. Facility is provided during the college hours and provide variety of hygienic foods and snacks at affordable rate

Stationary Store: - The college has stationary store that offers photocopying facilities for students and staffs. It also provides general stationary items at reasonable rates.

Hostels (2) and Guest rooms(12): - The college has excellent residential facilities for boys and girls admitted to the various courses.. Hostels have a common room providing LED television with cable TV connection for recreation. Boys Hostel (ST.Thomas) can accommodate 230 inmates and Girls Hostel (Assisi) can accommodate 75 inmates.

Guest rooms for accommodate eminent academicians and industrialists who come in to impart the knowledge to our potential engineers and managers

Transportation Facility: - 26 college buses and 7 light motor vehicles are available for students and staffs for their transportation on all working days.

Separate Parking area is available for staffs and students

In addition to these facilities LMCST has Director room, Principal room, Office room, Bursar's room, Board room, Superintendent room, IQAC room, Counselling room, 6 HoD Rooms and 11 Faculty rooms, Placement cell ,server room ,Auditor's room, workshops, Drivers room, Examination cell , ATM Facility, Yoga room, Dining rooms ,UPS room ,security launch Sickrooms ,restrooms ,toilets, Generator block, Transformer block and ramp facility classrooms for physically challenged people

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

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

Response:

Indoor and Outdoor Sports

The institution has proper infrastructure in terms of multipurpose playground with 87.95 Sq.mtrs of land and facilities with sufficient funds catering to the physical development and wellbeing of students.

LMCST provides excellent outdoor facilities such as volleyball courts, cricket field, football field, basketball courts, badminton courts, hand ball courts and athletics fields. The indoor facilities includes gymnasium, table tennis, caroms, and chess. On average 100 students per day utilize indoor, outdoor sports facilities and gymnasium. LMCST provides scientific support such as equipment, kits, sportswear, and financial assistance. LMCST organizes inter-departmental competitions for both men and women for games like Cricket, Football, Basketball and Volleyball. LMCST conducts annual sports meets every year. The College teams are actively participating in APJ Abdul Kalam Technological University zonal intercollegiate competitions and national tournaments. The play grounds are used daily by the students for practice and playing under the monitoring of Physical Education Department faculties. The college has a 200 mts track for athletics. The college playground is used as venue for intercollegiate volley ball completion, Archdiocese of Changanessery to organize their 132 th Archdiocese day in the year of 2019

and sports and cultural activities organized by kuttichal grama panchayat.

Gym Centre:- A well-equipped gymnasium is in use for the students and staff to develop their physical, stay fit and healthy .Gym center is equipped with Dumbbells of weight varying from 2kgs -25kgs, and a plate of weighting varying from 2kgs to 40kgs of multiple sets are available, Trunk Twister, High late pulley, shoulder mission, leg press, Thread mills, Dumbbell stands, seated rowing.

Yoga Centre :- A spacious hall is maintained for doing yoga in a Meditation and yoga in a 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. Yoga practices in LMCST are conducted for both boys and girls separately.

Cultural Activities

LMCST makes use of the basketball court in front of the administrative building offers space for various cultural programmes with necessary audio-visual facilities and its seating capacity of 500. LOMAA hall is utilized for technical events such as workshops, faculty development programs, quiz competitions, placement training programmes. Workshops are conducted for teachers by inviting eminent personalities from various institutions. 'EQUINOX, the Inter-Collegiate fest organized annually gives opportunities for students to showcase leadership and organizational skills. This fest includes both technical and cultural activities. CREST a flagship program organized by the Department of management studies to enhance the potential and caliber of budding managers. The open air auditorium with seating capacity of 1500 and mini auditorium with seating capacity of 500 are used for Talent Day, College day and Fresher's day. Independence Day, Republic Day, Onam, Holi, Yoga day and Christmas are celebrated in the traditional way to preserve cultural values. Different clubs such as Debate, quiz, Photography and arts clubs are available at college level. Several programmes are conducted by each clubs in department level as well as college levels.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

4.1.3 Percentage of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc. (Data for the latest completed academic year)

Response: 100

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 14

File Description	Document
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View Document
Upload any additional information	View Document
Paste link for additional information	View Document

4.1.4 Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years(INR in Lakhs)

Response: 7.11

4.1.4.1 Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
9.01	16.35	7.83	19.56	23.37

File Description	Document
Upload Details of budget allocation, excluding salary during the last five years (Data Template)	View Document
Upload audited utilization statements	View Document
Upload any additional information	View Document

4.2 Library as a Learning Resource

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

Response:

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 open-source 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 :-16.05.05.000

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.

FEATURES OF KOHA SOFTWARE

- Standard Modules :- Acquisition , Circulation, Cataloguing, Serials, Authorities, Reporting, OPAC, Advanced search
- All modules are included in every installation.
- Easy barcode generation and stock verification
- Free/open software

The college has a central library and 7 Department libraries for ready reference. An exclusive reference section is available in the central library. The visitor's register is maintained for staff and students. CCTV cameras are installed in the library for strict surveillance. Orientation programmes are conducted for first year students.

E-resources:

·The LMCST central library is a member of DELNET which gives access to e-books and 500 full-text e-journals 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.

Library facilities:

- Reprography and scanners
- Library classification and cataloguing in standard classification format
- Well maintained library register and files
- Display of new arrivals
- Display board of library data and service
- Library orientation programs for new users
- Compact Disc(500)
- NDL facility

·DELNET

·NPTEL facility

Drinking water facility ,Toilet

Wooden tables, shelves for journals

Computer tables and chairs

College Magazines, Newsletter, Handbooks, publication of various departments, photos and videos of major events, are available in the Library. The rules, regulations, working time of library are published in the college handbook, the websites of the college.

Links of e-resources available

DELNET:<http://164.100.247.30>

NPTEL: <https://nptel.ac.in/>

Swayam: <https://swayam.gov.in/>

NDL: <https://ndl.iitkgp.ac.in/>

JGATE (link):- <https://jgateplus.com/>

IEEE (2014-2017)

For research purpose plagiarism checker software , screen reading software and documentation preparation software (LaTeX) are available in the library

Library Timings

Academic working day:- 8.30 am to 5.00 pm

Vacation period: - 8.30 am to 4.30 pm

Titles and Volumes

Total number of Titles: - 8262

Total number of volume:- 26496

The College has books for Competitive examinations, Personal Development and also has a Question Bank facility. Separate stacking racks are maintained for Books, Magazines, Journals and Newspapers. LMCST subscribes 9 dailies, 2 weeklies and 62 Magazines/Journals. 3418 non engineering books are available in the library. The Library has an Advisory Committee which develop, monitor, improve and maintain a system for the quality enhancement and smooth functioning of the library.

File Description	Document
Upload any additional information	View Document
Paste link for Additional Information	View Document

4.2.2 The institution has subscription for the following e-resources

- 1.e-journals
- 2.e-ShodhSindhu
- 3.Shodhganga Membership
- 4.e-books
- 5.Databases
- 6.Remote access to e-resources

Response: B. Any 3 of the above

File Description	Document
Upload any additional information	View Document
Details of subscriptions like e-journals, e-ShodhSindhu, Shodhganga Membership , Remote access to library resources, Web interface etc (Data Template)	View Document

4.2.3 Average annual expenditure for purchase of books/e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)

Response: 2.56

4.2.3.1 Annual expenditure of purchase of books/e-books and subscription to journals/e-journals year wise during last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
0.87	3.43	1.20	2.10	5.2

File Description	Document
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the last five years (Data Template)	View Document
Any additional information	View Document

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

Response: 10.29

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

Response: 90

File Description	Document
Details of library usage by teachers and students	View Document

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi

Response:

LMCST has advanced computing facilities with the state of art modern technologies to train manpower in the field of programming, data processing, and computer networks. LMCST periodically upgrades the IT infrastructure by replacing the old computers and peripherals depending upon the requirements. The total numbers of computers presently available are 364. All these computers are connected to LAN. The computer center has all the latest software required for Engineering and Scientific applications. ICT classrooms are equipped with LCD Projectors for efficient and effective learning

LMCST maintains 7 physical server, among them three proxy servers, one backup server, one tally server and one dimension server and one backup webserver. 5 servers are Linux-based. Also the college makes use of propriety and open source software's which include operating systems such as Ubuntu 15 and 16.

Internet & Wi-Fi :

- The campus is provided with 400 Mbps broadband high-speed internet.
- The college has 20 Wi-Fi routers with extenders provided to cover the wireless range throughout the college.
- System Administrator takes care of IT and related needs of the campus such as software development, Hardware and networking.

·Extensive use of ICT resources including development and use of computer-aided teaching-learning materials by its staff and students is ensured in the college.

All labs are interconnected and each lab has an individual well-structured network rack. Buildings are interconnected with optical fiber networks.

·Online teaching and learning resources are available.

A separate server room for computing facilities is available on the campus.

·Faculty have free high-speed internet access on their LAN-connected desktops in their Department/Library/ Computer Centre; Remote access to DELNET and NPTEL.

·LMCST provides Wi-Fi facilities for guest rooms.

·Processors range from Intel Dual Core to Intel core i3.

·Memory ranges from 2 GB to 4 GB.

·Monitor:-LCDs/ LEDs are used.

Frequency of Update:

Canon scanner,UPS, speaker, projector, mixer,and other computer accessories purchased (AY 2019-2020)

Panasonic AC, impex panel TV fiesta,RFID Module,UPS 600V/A ,Battery 12v 7A (AY 2018-2020)

Various computer accessories were purchased and upgraded.(AY 2017-2018)

DESKTOP Computers and various computer accessories were purchased and upgraded (AY 2016-2017)

Various computer accessories were purchased and the existing functional Computers were updated successfully(AY 2015-2016)

The non-functional computers were replaced.

CAMPUS MANAGEMENT SOFTWARE(CMS):-LMCST is using “**Campus 7**” Software provided by IXIAN Informatics Pvt. Ltd. Core modules of Campus 7 software are :

HR Management

Academics Management

·Student Login & Profile Management

Managerial Information System(MIS)

·Learning Management Systems

All the details relating to a particular student/staff can be accessed through the principal's login. SMS/Email facility is available; so that daily attendance can be sent to parents' login. The biometric facility is an added advantage and the faculty details will be configured in the machine. Using Learning Management System each faculty can upload the study materials of their concerned subjects to the entire class and the students can download accordingly.

Internet Provider: - Asianet broadband (100Mbps) & BSNL (300Mbps)

Available bandwidth:- 400 Mbps (Total)

CCTV Facility

The entire campus is equipped with 41 CCTV cameras providing electronic surveillance and a safety.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

4.3.2 Student - Computer ratio (Data for the latest completed academic year)

Response: 2.71

File Description	Document
Upload any additional information	View Document
Student – computer ratio	View Document

4.3.3 Bandwidth of internet connection in the Institution

Response: E. < 5 MBPS

File Description	Document
Upload any additional Information	View Document
Details of available bandwidth of internet connection in the Institution	View Document

4.4 Maintenance of Campus Infrastructure

4.4.1 Average percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years(INR in Lakhs)

Response: 91.15

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

2020-21	2019-20	2018-19	2017-18	2016-17
81.62	217.311	187.211	258.211	249.09

File Description	Document
Upload any additional information	View Document
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	View Document
Audited statements of accounts	View Document

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.

Response:

The college has well-established systems and procedures for maintaining and utilizing physical, academic and support facilities. The principal is overall in charge of all facilities and he exercises the duty through Heads of Departments, faculty, administrative staff, lab attendants, librarian and library assistants. There is an electrician who is in charge of all electrical installation/works and their repair and maintenance. The Bursar of the college takes care of all assets of the college as well as of maintenance and employs adequate support staff including a gardener, electrician, plumber, driver, security staff and service staff. All the Departments and various functioning units of the college are provided with the required infrastructure facilities like classrooms, faculty rooms, laboratories, girl's restrooms, and toilets. There are security staff members on the campus who ensure the safety and security of the entire campus including infrastructure and the entry points.

The campus public addressing system provides full voice communication to indoor and outdoor areas and covers all buildings on the campus. The control room can provide instant voice alerts to all students and staff members during emergencies and everyday activities.

In LMCST there is a separate team, which handles Campus Maintenance Software. A faculty member is in charge of maintaining and monitoring CMS. The individual punching time will be displayed in their login. All employees have the provision to apply for leave through online mode. The sanctioning authority can either approve/reject the leave application and the status will be displayed in that particular employee's login

LABORATORY

The laboratories in the college are furnished according to the prescribed statutory rules. Necessary equipment and material are procured to deliver to the students the best standards of education. Based on the timetable, the students practice experiments in their assigned labs with the supervision and assistance of faculty, lab-in-charges and lab technicians. Consumable and non-consumable materials registers are updated periodically. Regular cleaning of the machines is done by the support team in the presence of lab technicians. This cleaning is monitored by the lab technician concerned and is recorded in a checklist.

Before the commencement of the academic year, a lab audit is conducted and a report on the requirement of new equipment, replacement of the old equipment, and modernization of machines/ software is prepared along with the requirement of consumables, non-consumables as per the university guidelines to conduct experiments. Regular inspection of machines is organized. In case of breakdown of any equipment, the details of that equipment will be recorded in the breakdown register, duly attested by the HOD pending rectification.

LIBRARY

The Library has an Advisory Committee to monitor and standardize the activities of the library. The library extends its services to support research activities of the college, awareness programs for accessing digital information. The routine activities of the library are managed by the Librarian with the help of an assistant. A systematic effort is put into stocking the Library. This is done so by careful identification, evaluation and selection for the students' convenience.

Concerned faculty recommends books to be procured in their respective subjects. These requirements are endorsed by the concerned Head of the Department and Principal. All indents made by the faculty are routed through the Principal to the Bursar for approval. The order is made online, by print, or via email depending on the convenience of the library and accessibility.

Entries are made in the bill register at the security point of the college. Bills along with the books are sent to the Library. The details of the Invoice and books are made in the Accession Register and accession numbers are given to the books. Files of bills concerned with the library are maintained by Librarian. Stamping the library seal is put on the backside of the title page, on the secret page, and on the last page. Bar codes and round labels are pasted on the title page and are laminated with cello tape.

SPORTS

The college has playgrounds that are utilized by students to the maximum. The playgrounds, gymnasium, and such sports infrastructure are under the custody and monitoring of the faculties of the physical education Department

- A list of the required sports equipment is prepared by the sports Department for each academic year separately.
- The formulated requirement proposal is submitted to the Principal for the recommendation.
- . After the recommendation, the proposal is forwarded to the Bursar for financial approval.
- On approval, a purchase order will be placed to a supplier.

- Students are permitted to play and utilize sports materials only during sports hours and after college hours. They must enter the details of materials and note on the return of the same in a register which is maintained by faculty

COMPUTERS MAINTENANCE

Up-gradation of hardware/software is also taken care of by the system administrator. Internet/intranet/LAN facilities are also fully functional and are properly maintained and monitored.

- Before commencement of the academic year, the head of the Department verifies the requirements regarding the up-gradation of computers in each laboratory and directs it to the computer maintenance team.

- System administrator handles the department requirements and maintenance

CLASSROOM

- Before the commencement of the academic year, based on the intake of students, Heads of Departments propound the requirement of classrooms to the Principal.

- The classroom allocation is done by the HOD in the concerned Department building.

- The benches and desks are cleaned daily and mopping of the classrooms is done every week.

- In case of any damage noticed in the class, the class staff advisor brings it to the notice of the HOD. The necessary follow-up action is done by the Department and steps are taken to fix the damage.

• Centralized UPS for power supply and prevention of risk of damage to systems. Buildings are equipped with Fire-fighting equipment and First aid boxes

Waste Management:- There are effective waste management systems and adequate dustbin facilities available throughout the campus.

Agriculture:- Organic farming is also available in the campus. It includes animals, birds, fish, vegetables and fruits

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during last five years

Response: 7.35

5.1.1.1 Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)

2020-21	2019-20	2018-19	2017-18	2016-17
81	79	56	55	47

File Description

Document

upload self attested letter with the list of students sanctioned scholarship

[View Document](#)

Upload any additional information Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years (Data Template)

[View Document](#)

5.1.2 Average percentage of students benefitted by scholarships, freeships etc. provided by the institution / non- government agencies during the last five years

Response: 27.79

5.1.2.1 Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)

2020-21	2019-20	2018-19	2017-18	2016-17
136	392	175	231	317

File Description	Document
Upload any additional information	View Document
Number of students benefited by scholarships and freships institution / non- government agencies in last 5 years (Date Template)	View Document

5.1.3 Capacity building and skills enhancement initiatives taken by the institution include the following

1. Soft skills
2. Language and communication skills
3. Life skills (Yoga, physical fitness, health and hygiene)
4. ICT/computing skills

Response: B. 3 of the above

File Description	Document
Details of capability building and skills enhancement initiatives (Data Template)	View Document
Any additional information	View Document
Link to Institutional website	View Document

5.1.4 Average percentage of students benefitted by guidance for competitive examinations and career counselling offered by the Institution during the last five years

Response: 14.54

5.1.4.1 Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
141	63	80	324	59

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	View Document
Any additional information	View Document

5.1.5 The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

1. Implementation of guidelines of statutory/regulatory bodies
2. Organisation wide awareness and undertakings on policies with zero tolerance
3. Mechanisms for submission of online/offline students' grievances
4. Timely redressal of the grievances through appropriate committees

Response: A. All of the above

File Description	Document
Upload any additional information	View Document
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	View Document
Details of student grievances including sexual harassment and ragging cases	View Document

5.2 Student Progression

5.2.1 Average percentage of placement of outgoing students during the last five years

Response: 18

5.2.1.1 Number of outgoing students placed year - wise during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
57	49	79	46	0

File Description	Document
Upload any additional information	View Document
Self attested list of students placed	View Document
Details of student placement during the last five years (Data Template)	View Document

5.2.2 Average percentage of students progressing to higher education during the last five years

Response: 42.78

5.2.2.1 Number of outgoing student progression to higher education during last five years

Response: 77

File Description	Document
Upload supporting data for student/alumni	View Document
Details of student progression to higher education (Data Template)	View Document

5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: IIT-JAM/CLAT/ NET/SLET/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations, etc.)

Response: 11.91

5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: IIT/JAM/ NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations, etc.)) year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
3	8	4	3	0

5.2.3.2 Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
25	36	29	26	28

File Description	Document
Upload supporting data for the same	View Document
Number of students qualifying in state/ national/ international level examinations during the last five years (Data Template)	View Document
Any additional information	View Document

5.3 Student Participation and Activities

5.3.1 Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter-university/state/national / international level (award for a team event should be counted as one) during the last five years.

Response: 3

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) year-wise during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
0	1	1	0	1

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/ national/international level during the last five year	View Document
e-copies of award letters and certificates	View Document
Any additional information	View Document

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

Response:

The purpose of the student council is to provide activities and services which serve the co-curricular, cultural, social and educational interests of students at the Institution. The student council provides a platform for the students to share their ideas and goods to improve the Institution from all perspectives. The students' council named Lourdes Matha Students Association (LMSA) consists of student representatives selected by conducting the election. Participation in the council activities gives experience for the students in decision making. We encourage the active participation of students in various administrative, co-curricular and extracurricular activities. The final decision will be taken considering the suggestions of the student council representatives. Each department has associations to organize events and activities related to the discipline.

Every class has a staff advisory committee directly related to student activities and decision-making. Various clubs have students' representations, and they organize many programs every year to enhance student careers, culture and profession. The college will provide the funding to manage the activities.

As part of developing social responsibility, we encourage students to involve in charity

activities. Our students and faculty members frequently visit Orphanages and home for the differently-abled to spend time with the inmates. We also guide the students and drive initiatives for a sustainable environment.

The roles and responsibilities of the student council in academic and administrative bodies are:

? Express the collective opinion of students in the executive bodies of the Institution.

? Promote and encourage the involvement of students in organizing sports and cultural activities in the college.

? Propose activities to the college management that would improve the quality of life in the college.

? The student council must ensure a pleasant atmosphere for smooth conduction of academic activities in the college premises.

? Active involvement of students in achieving a ragging-free campus.

? Students should develop innovative projects that will attract industry people and are good enough to apply for funding.

? Raise interests in industrial visits and placement drives.

? Co-operate the faculty members to teach beyond the syllabus and master all subjects

? Involve voluntarily in conducting national/international level workshops and conferences.

? Involve actively in academic committees and support the committee members to perform their activities smoothly.

? Actively participate in training programs organized by the Institution.

? Actively participate in state-level or national-level seminars and project competitions.

? Incorporate interest in learning beyond the syllabus.

We have the following academic and administrative committees/ cells/ clubs in which the student members are actively involved:

1. Student Council
2. Internal Quality Assurance Cell (IQAC)
3. Anti-Ragging Cell
4. Students Academic Discipline and Welfare Committee
5. Students Grievances and Appeal Committee

6. Extension Cell
7. Women's Internal Complaint Committee
8. Women Empowerment Cell
9. Magazine Committee
10. Innovation and Entrepreneurship Development Cell
11. Student Aptitude Development Cell
12. HR Committee
13. Sukrutha Club
14. PR Committee
15. Anti-Narcotics Cell
16. Debating Club
17. Arts Club
18. Quiz Club
19. NSS
20. Nature Club
21. SC/ST Committee
22. NCC

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

5.3.3 Average number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions)

Response: 5.6

5.3.3.1 Number of sports and cultural events/competitions in which students of the Institution participated year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
3	6	7	06	06

File Description	Document
Report of the event	View Document
Number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions (Data Template))	View Document

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

Response:

The institution collaborates with the Alumni through the Alumni Association and Global Meets. Alumni act as the backbone of any institution. They support the institution by providing scholarships to deserving students. LMCST, established in 2002, has a standing of 19 years and has a credit of more than 5000 as its proud ambassadors. Our alumni association is the Lourdes Matha Alumni Association (LOMAA) and the members are molded as per the vision and mission of the institution. A strong bond with alumni is highly desirable for the institution's growth and is the true inspiration for the upcoming batches. Alumni actively participate in central decision-making committees, including DAC and IQAC.

The LOMAA, is registered under the Societies Registration Act of 1860 and started functioning in 2007. LMCST strives hard to maintain a solid and positive relationship with alumni which benefits the institution academically and professionally. The global LOMAA meet is conducted every year, in which the alumni from all the departments gather under one tree. It is performed through a hybrid model, which allows members across the globe to attend the meeting live through social media and offline mode.

Our alumni have occupied significant positions in different parts of the world. They share their experiences from campus life to professional life. Successful entrepreneurs, professionals and project team leaders from the alumni are invited to the campus to share their success stories. Through social media groups, our Alumni often share details about job openings and the new technologies for the benefit of students.

1. Sponsorship

? As part of the LOMAA charity service, 23 students were awarded the scholarship. The total scholarship amount distributed from is Rs.2,10,000 (Two lakhs ten thousand)

? LOMAA supported students who completed the course but failed to get placement by providing financial

support for attending finishing school course- Expense met Rs.1,58,000/

2. Assets Donated

? For in-house printing purpose of ID Cards, in March 2017, our alumni donated one ID card printing machine -Expense Rs.75,000/-

? In April 2017, LOMAA donated 5 LCD projectors- Expense Rs.1,91,585/-

? As part of the beautification of the college campus, LOMAA implemented the paving of floor tiles in front of the CS-MCA block portico in September 2017.-Expense-Rs. 1,10,476/-

? LOMAA hall air conditioning June 2016- Expense is six lakhs

?EEE Department library – Rs.10,000/-

3. Interaction/ Training

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 have served as resource persons for various webinars, add-on courses and technical sessions.

4. Project and Placement

The Alumni assist the final year students of various streams for their project support and placements in their companies. Our Alumni act as job providers for our students and thereby raise the reputation of our institution to greater heights.

SpericonTechnology, Estrado Technologies, Tenser Technology Solution, Mykademy, Adhoc Technologies Private Limited, Embright Infotech, Ergonomics Communication and Information Technologies, Pelican insights, Outshine are some of the companies owned by our alumni.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

5.4.2 Alumni contribution during the last five years (INR in lakhs)

Response: E. <1 Lakhs

File Description	Document
Upload any additional information	View Document
Link for any additional information	View Document

NAAC

Criterion 6 - 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

Response:

Excellence in professional knowledge is essential for Nation-building through major societal projects. Research and development in advanced technologies is the key enabler to achieve the same.

Advanced knowledge acquisition through Research and development enables the design of new multi-disciplinary systems which require scientific analysis, teamwork and modern technology. By this process, we can achieve our vision and create enlightened responsible society.

The R&D culture is inculcated among students and faculties through collaboration with industrial projects and product development initiatives. Identifying the right persons for the right job to work as a team in order to accomplish the mission.

PERSPECTIVE PLAN

- Enhancing the quality of the teaching-learning process using modern digital methods.
- Promoting research among faculty & students using ICT Tools.
- Enhancing industry-institute interaction.
- Widening extension activities.
- Enhancing quality assurance measures.
- Increase AICTE/ KSCSTE grants from government sources.
- Enhancing the start-up activities.
- Increase faculties with Ph.D., qualifications to 100 % by 2030.
- Establishment of a Deemed University to offer world-class education.
- Get accredited by NBA & NAAC.
- Increase advanced journal subscriptions in Central Library

Participation of Teachers in Decision-Making Bodies.

Teachers are primal in accomplishing the vision and mission of our institution and play a vital part in the decision-making process. Heads of Departments (HoDs) are given considerable administrative and academic autonomy. The institution follows a democratic and participatory mode of governance with all the stakeholders concerned. The Principal is the administrative and academic head of the institution and is assisted by the HoDs, office superintendent, finance and accounts officers, TBI nodal officer, and coordinators of various committees at the institution level. Periodic requirements of departments are identified by the heads of the respective departments and are presented to the Principal for approval by the Governing Board.

- The HOD, faculty members and Alumni participate in the Department Advisory Committee (DAC), to finalize the teaching methodologies of courses, maintaining the academic standards. Such participation brings transparency in governance and encourages and supports teamwork.

- The faculty members, alumni and students are part of the IQAC and their views are considered in governance.
 - Thereby, all the stakeholders of LMCST are involved at various levels in assessing the budgetary needs, standards in academics and policy formulating, innovations and research. The Principal establishes the policy, strategy, resource allocation and operations through the Governing board.
 - Teachers contribute in the framing and implementation of institutional policies through the Governing Body, College Council, IQAC, Research Committee, Students Grievance and Appeal Committee and Admission Committee. Staff members actively participate in committees like Examination Cell, Career Guidance and Placement Cell (CGPC) and Institution Entrepreneurship Development Cell (IEDC) that are initiated for the day-to-day functioning of the institution and contribute in a significant way to the participatory ethos of our institution.
- Additionally, teachers contribute as motivators and driving forces behind cultural and socially conscious activities through the Extension Cell, Sukrutha Club, Student Aptitude Development (SADP) Cell, NSS unit, NCC unit, Arts Club, Debating Club, Quiz Club and Nature Club of the institution.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

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

Response:

The institution has decentralized and transparent mechanisms in administration, management, financial and educational affairs.

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. The staff members hold positions of Heads of Departments, members of college council, governing body and IQAC - creating a platform for the faculty to participate in decision making.

The departments plan activities in tune with the vision and mission of the college. The faculty members work for the students. The technical staff members support the day-to-day work. The top management delegates authority to the Principal and the academic council to lead all the academic activities. They regularly meet and take steps to formulate the perspective plan of the institution. As part of quality improvement, the College Council, IQAC and other Committees work together. Every semester, the college council and departments conduct meetings to discuss academic activities. The IQAC prepares the Academic Calendar and monitors the academic activities. Various committees are assigned with defined responsibilities. Committees and IQAC report to the principal about the status of their assigned duties.

They get feedback from all the stakeholders and take steps for improvements and recommend corrective actions. The administrative and academic duties are controlled by the Principal. The Head of the department works under the guidance of the Principal and Internal Quality Assurance Cell. The Heads of the Department are given specific duties and responsibilities to attend the day to day routine work. Every faculty member is involved in the various academic and administrative or other committees. The IQAC monitors academic and administrative activities. The staff advisory system is introduced in all the departments and it is effectively monitored by the Principal. Heads of the department ensure the functioning of the departmental activities whereas Faculty members implement academic activities. The Departmental Advisory Committee recommends revised goals and objectives of the program. The committee also reviews and analyzes the gap between curriculum and industry requirements and gives necessary feedback. Faculties conduct the lectures, practicals, examinations, monitor attendance and results and provide feedback to the system. The Management of the institution conducts regular meets to sort out the challenges of the institution. Management encourages the teachers, students and non-teaching staff, alumni and coordinators to share their ideas, opinions and suggestions through the proper channels.

The HoDs are empowered to make adjustments in tutoring assignments through departmental meetings. They plan FDPs, seminars, workshops, career counseling sessions, remedial measures, interdepartmental and industrial visits. HoDs introduce creative measures for the benefit of their students. The HoDs organize the Parent-Teacher meetings for sharing the academic progress of the students to Parents. The HoDs oversee the question paper-setting, evaluation, and marks submission of all internal examinations. HoDs decide on the nature, pattern and duration of special and remedial classes. The HoDs are encouraged to conduct Summer courses and On-The-Job training programs for school students as an extension activity.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.2 Strategy Development and Deployment

6.2.1 The institutional Strategic / Perspective plan is effectively deployed

Response:

Lourdes Matha College of Science and Technology has a long-term Strategic Plan as well as medium and short-term plans for the continuous improvement and actualization of the vision, mission and core values it upholds.

The Strategic Plan:

- **Long-Term Goals:**

- Strengthen the teaching-learning process and R&D.
- Promote “Go Green & Paperless Lourdes” further.

- Become the Center of Excellence in engineering and Technology.
- Strengthening of academic and R&D programmes in collaboration with reputed Universities and industries.
- Attain accreditations - NAAC (A++) & NBA for all Departments
- Attain the autonomous status
- Become a Deemed University
- Patents, book publications and funded projects to be increased.
- Increase faculty participation in conferences/ workshops.

- **Medium-Term Goals:**

- Motivate students and faculty for higher studies
- Improving placements in core sectors.
- Improve Industry-Institute Interactions.
- Encourage faculty members to publish research papers in reputed journals.
- Encourage students and staff to take part in national/ international conferences and publish their research work.

- **Short Term Goals (Annual Goals):**

- Modernize classrooms and laboratories.
- Depute supporting staff for training.

At the commencement of the academic year, the Principal directs the IQAC to brainstorm and formulate the strategic plan. The IQAC requests all the heads and conveners of all concerned committees and associations to prepare their respective perspective plan following strategies and the University calendar of events every year.

Case study of the successfully implemented strategic plan:

The objective of the college is to encourage and maintain a healthy and eco-friendly environment by promoting the use of renewable energy sources and minimizing the usage of paper.

To implement the use of renewable energy, a 100 kW solar power plant is made operational on the campus and wheeling of the grid is done by grid-tied solar power plant. Traditional lighting systems are replaced with LED bulbs. Biogas plants and the vermicomposting pit have been installed in the campus to process food waste and other biodegradable garbage generated in the campus.

In line with this vision of the college, our in-house staff and students have developed a mechanism to reduce the usage of paper by going paperless. All the university and college circulars are communicated to our staff and students through the mail and social media applications. All documents involved in college are maintained in Google cloud platform, Amazon Web Services, and a Simple storage server. It helps in saving space and time for searching documents. Faculty attendance and leave submission are monitored online through Campus Management System (CMS). Monthly attendance statements of students are also obtained electronically using CMS. All the learning materials for students are now provided through the CMS. Since the documents are all maintained electronically, e-audit procedures are made easier. Earlier, it was a tedious task to manually analyze feedback, whether it is faculty feedback or student feedback. Now, online feedback has saved time and labor and also the wastage of papers is reduced to a great extent. The use of online tools like Google Sheets and Google Docs supports easy sharing of ideas in real-time and with no paper wastage.

File Description	Document
Upload any additional information	View Document
strategic Plan and deployment documents on the website	View Document
Paste link for additional information	View Document

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

Response:

The organization has a well-structured administrative setup with the Governing Body as the highest decision-making body and all relevant functional bodies and committees.

1. Administrative Setup:

The apex body is the Board of Governors, which is the financial, administrative and quality systems policy formulating body under which the entire college functions are being organized and controlled. This committee meets many times in an academic year depending on the college issues. The members of the governing board take the responsibility of implementing the policy decision of the governing body. The Principal has the executive powers to administer the academics, development and other functions based on the guidelines prescribed by him.

There are 8 academic Departments directly reporting to the Principal as line authority of management. Each Department is headed by Departmental heads under whom all faculty members and laboratories are functioning. The college council consists of the Principal and all the heads of the Departments and they meet frequently in an academic year to discuss various academic-related matters.

2. Functions of Various Bodies:

To provide a policy framework and guidelines for the functioning of the institution, 42 committees are

formulated which evaluate, monitor and endorse several matters related to the institutional capability, design and education efficacy, research, examination, assessment for maintaining institutional capacity and educational effectiveness. The Head of the institution ensures that various committees carry out their assigned tasks effectively.

3. Service rules and Procedure

Service rules, policies, and procedures for the institution are well maintained and documented. They are made known to all the recruits through the induction programme. The recruitment and the scale of pay for various teaching positions are as per the AICTE norms.

4. Recruitment Policies:

- Reporting about staff requirements by Heads of Departments to the Principal.
- Advertising in leading newspapers regarding the vacancies.
- Formation of the selection committee.
- Shortlisting the received applications.
- Informing the interview dates to the eligible candidates.
- Assessing candidates' potential and skills.
- Selection is purely based on the performance of candidates.
- Issuing appointment orders to selected candidates.
- Reporting for duty on the specified date.

5. Promotional Policies:

All promotions are done by the selection committee only. Eligible candidates are considered for promotion based on the recommendations of the selection committee. Several posts at various levels in each discipline shall be deemed necessary by the college authorities.

6. Grievance Redressal Mechanism:

The Students Grievance and Appeal Committee was established in order to provide the easy and readily accessible procedure for rapid Redressal of the daily grievances of the students to maintain a pleasant atmosphere. Students can submit their online grievance through the CMS to the Chairperson of students' grievance and appeal committee or through a suggestion box.

The details of Students Grievance and Appeal Committee members are also published in the college main notice board. The functions of the committee are:

- To examine the nature of grievances reported

- To discuss the matters with the members of the committee
- To resolve the issues impartially.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document
Link to Organogram of the Institution webpage	View Document

6.2.3 Implementation of e-governance in areas of operation

1. Administration
2. Finance and Accounts
3. Student Admission and Support
4. Examination

Response: A. All of the above

File Description	Document
Screen shots of user interfaces	View Document
ERP (Enterprise Resource Planning) Document	View Document
Details of implementation of e-governance in areas of operation, Administration etc	View Document
Any additional information	View Document

6.3 Faculty Empowerment Strategies

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

Response:

LMCST has effective welfare measures for faculty and non-teaching staff to ensure the well-being of the staff. All statutory welfare measures are implemented with at most diligence. Various monetary and non-monetary measures towards personal and professional growth are extended to the employees. These facilities and services are availed by them based on their eligibility and requirements at the appropriate time as per the prevailing norms of the institute.

Following welfare measures are extended to the faculty and non-teaching staff of the college:

1. **Leave facility:** The staff members are eligible for casual leave of 15 days per year. Vacation leave for teaching and non-teaching staff is 20 days per year. Duty leave is granted for representing our college in

outside activities. Medical leave is granted for 15 days which can be availed once in 3 years. Paid maternity leave was granted for 90 days till 31.03.2021 and was revised recently to 6 months from 01.04.2021.

2. Employees Provident Fund: All the staff members who are eligible as per the Staffs' Provident Fund Legislation shall be enrolled as members. The college contributes 12% of the pay subject to a maximum of Rs. 1800/- per person, towards the employer's contribution to the Employees Provident Fund Scheme. The college deducts 12% of the pay from the salary of the individual staff every month, towards his/her contribution to the EPF Scheme. The college remits both the contributions to the EPF Scheme. The college sends across the annual statements about the staff, which are released by the EPF authorities. The college shall endeavor to correspond with the EPF Scheme authorities to obtain the accumulations with interest from the EPF organization and present the payment to the staff at the time of his/her retirement.

3. Financial support in career development: Provided to faculty members for attending conferences, seminars, webinars, and workshops.

4. Financial support during emergencies: The staff club provides support to the needy staff members for medical treatment including cancer, accidents, or even for the marriage of their daughters.

5. Research Incentive Scheme: The main aim of this scheme is to motivate the faculty members of our Institution to undertake quality research, consultancy and other research related activities.

6. To encourage research, leave is provided for higher studies.

7. In case of emergencies, staff members can avail advance salary which is a short-term loan facility provided to meet urgent personal needs.

8. Women Empowerment Cell works towards safeguarding the rights and empowering the female faculty and staff members.

9. All teaching and non-teaching staff can avail college bus and hostel facilities. For official purposes, the staff concerned should inform the bus convener for availing conveyance.

10. Canteen and Pantry facilities are available for all staff members and they can make use of the facility. For the convenience of staff and students, pantry facilities are provided in different blocks within the campus.

11. ATM: ATM facility is available within the campus.

12. Fee concession is provided to the wards of employees seeking admission to the institution.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.3.2 Average percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

Response: 18.58

6.3.2.1 Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
6	6	6	25	65

File Description	Document
Upload any additional information	View Document
Details of teachers provided with financial support to attend conference, workshops etc during the last five years	View Document

6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years

Response: 11

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

2020-21	2019-20	2018-19	2017-18	2016-17
12	6	5	20	12

File Description	Document
Upload any additional information	View Document
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff	View Document

6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP) during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course).

Response: 20.85

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

2020-21	2019-20	2018-19	2017-18	2016-17
28	16	8	29	29

File Description	Document
Upload any additional information	View Document
IQAC report summary	View Document
Details of teachers attending professional development programmes during the last five years	View Document

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

Response:

The success of every organization is determined by the quality, performance and expertise of its employees. Employees need to work together as a team for achieving the vision and mission. Academic and R&D performance of faculties are essential for the growth of individual faculty and also for the overall development of the Institution. The institution grows higher and deeper, only when employees work together to promote the institution. The Human Resource Management (HRM) policies embed the goals of the organization to the performance of the individual. The contribution of individuals towards the achievement of the goals of the institution is assessed through a performance appraisal process.

The factors analyzed in the appraisal system for teaching staff

- Academic qualifications
- Experience in teaching and/or industry
- Usage of modern tools for teaching
- Research Publications and Patents obtained/registered
- Faculty Development Programmes attended

- Relevant Conferences attended
- Innovations brought out in teaching practices
- Pass percentages achieved in University Exams
- Contributions in guidance of project work of students
- R&D projects undertaken
- Participation and coordinatorship in clubs and committees
- Consultancies undertaken

A structured “Self-appraisal form” is submitted by each faculty member for this purpose, wherein he or she gives the details of their performance and participation in all activities assigned to him or her by the department or college. The concerned HoD gives their remarks on the performance of the faculty and is further reviewed by the Principal and the evaluation of each faculty is informed to the faculty for transparency of the entire evaluation process in line with Govt. norms in this regard. The faculty performance appraisal system evaluates teaching, learning, co-curricular activities, research activities, projects, startup initiatives, innovations and product development contributions. The teaching effectiveness of individual faculties is evaluated regularly through university results obtained and initiatives are taken to improve the results. Indirect evaluations are done during PTA meetings through Parents' comments and observations.

Further, at the end of each semester, feedback forms are issued to the students for each of the courses attended by them. The feedback forms in the form of questionnaires collect information about the teacher and different aspects of the teaching process. A team consisting of the Head of the department, Principal and Management analyzes the feedback forms collected from the students and suggests suitable measures to improve the teaching-learning process. The self-appraisal report is necessary to assess the performance of every faculty every academic year and apply appropriate corrective measures to ensure quality teaching and learning processes. A review meeting with each faculty is conducted annually by the Principal and Director for discussing faculty performance and mutual suggestions and actions for improvement are ensured. After evaluation, the feedback is provided to the staff for self-improvement.

To encourage faculties to take up research activities, a research- incentive system is introduced based on publications in SCI/SCOPUS/UGC indexed journals. These publications are given significant weightage in the evaluation of the faculties. The product development initiatives of societal needs are given paramount importance in evaluation.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

Internal and External audit Mechanism:

The institution strictly adheres to all the statutory requirements of the audits and accounting. The institution conducts internal and external financial audits regularly. As part of this process, the institution has an internal audit team consisting of two auditors namely Mr. James Varghese, FCA and Mr. Jyothiraj, Office Assistant (SG), LMCST for carrying out the internal audit. The team conducts internal audits regularly and reports are then submitted to the Accounts Officer. The Accounts Officer scrutinizes the audit queries raised by the team and takes appropriate measures for remedial action.

The institution has an external audit mechanism carried out by M/s Philip and Mathew, a Chartered Accountant firm with a standing of 35 years. As part of the mechanism, queries are raised and are put before the Accounts Officer. After clarifying the queries, the audit report is submitted to the IQAC Chairman. After the verification of due explanations & refinements, the accounts are finalized accordingly. The external audit is conducted once a year.

The objective of Internal & External Audit:

The internal and external audits are conducted to trace the inconsistencies and ensure transparency in the accounting process. The internal audit is done by the internal audit team on a quarterly basis and submits the audit report. The internal audit checks the day-to-day transactions of the college including cash and bank vouchers supported by enough documents and approved by the management. The vehicle log details, stock register from various departments, Asset register, movement registers and other records maintained by the college are also verified. The internal audit team verifies the fee collection from each department as well as the direct and indirect expenses incurred for each department. The external audit is conducted by registered Chartered Accountants once a year. Based on the internal reports and audit checklist, they verify financial records maintained by the college and prepare Audit statements. Audit statements including Balance sheet, Income & Expenditure A/c, Receipts & Payments A/c, and Audit report. These audit statements are submitted to Income-tax Dept for tax exemption and renewal of 10 (23 C), Registrar of society for renewal of society registration and Society members for approval of financial records in the Annual General Meeting. Provisions of the budget allocation made for each Department and the optimal utilization of funds based on the budget allocation is ensured through Internal and External Audit. The accounts officer of the college reviews the internal audit report and takes essential measures for follow-up action. The accounts officer will then rectify the discrepancies identified and will submit the corrected audit report to the Chairman of IQAC. Fee payment through online facilities is primary and is encouraged. An effective financial management system is followed by our institution to ensure that no financial mismanagement takes place and utmost care is taken to follow the best accounting practices. For staff, the source deduction of tax is meticulously followed and submitted to the income-tax department. The salary is paid through the bank which makes accounting foolproof.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

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

Response: 8.4

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

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	8.2	0.20	0

File Description	Document
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the last five years	View Document
Any additional information	View Document
Annual statements of accounts	View Document

6.4.3 Institutional strategies for mobilisation of funds and the optimal utilisation of resources

Response:

Mobilization of Funds:

Most of the funds required by the institution are met through the fees collected annually. The institution has a panel of external agencies for obtaining term loans required for any capital expenditure or working capital finance.

Apart from this, the institution also has assigned the responsibility of finance operations to the treasurer of LMCES. The Capital expenditures are met through short term loans from the panel Banks and Financial 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 special facilities
7. Grants from AICTE/ KSCSTE
8. Conduct seminars, workshops and Faculty Development Programmes.
9. Rent from agencies for conducting competitive exams on campus.
10. Alumni donations
11. PTA fund
12. Funds raised by staff club
13. Organic Farming
14. Fish Farming

Utilization of funds :

The Planning Committee reviews and recommends the utilization of budget for activities of the institution, every academic year and ensures the proper utilization of funds. Funds are used for the monthly salaries of staff, campus maintenance, facility maintenance, conducting value-added courses, placement training, HR training, consumables, maintenance of equipment, library books, workshops expenses, celebration of special events, club activities, Faculty development, student skill development, staff welfare and Extension activities.

The institution has a purchase policy governing all purchases of goods and services. Purchasing starts with the initiation of the requirement by the indenting officer. The purchase request by the indenting officer should specify the details such as specification, quality and quantity, suggested suppliers and preferred brand. The indenting form is forwarded to the purchase department through the proper channel. The purchasing department calls for quotations based on the requirements. The quotations received are evaluated for technical suitability and a comparative statement is prepared. The order is finalized by the purchase committee on the considerations such as price, quality, conformance to specifications, pedigree and maintenance aspects etc. Once the product is received, the Store department prepares Receive Voucher and gets it inspected by the indenting officer and ensures the quality of the product and then it is forwarded to the accounts section for payment. The funds are disbursed to the supplier by the finance officer.

For unplanned purchases and contingencies, the institute makes provision for miscellaneous additional funds. An empowered committee is functioning to take care of additional construction and

maintenance work. The Principal, Accounts Officer and the Head of Departments discuss the requirement and decide the priorities while allocating financial resources for various purposes. Based on the financial requirement of each department, a budget amount is allocated annually. Periodic monitoring of the utilization of funds allocated to the departments is done to ensure proper use of allocated financial resources.

Periodically, the Governing Body monitors the annual expenditure, scrutinizes the budget and provides feedback related to efficient use of financial resources. The institution has a standardized procedure for sanctioning the funds for various activities and also for settlement of advance and passing of bills for payment.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

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

Response:

The Internal Quality Assurance Cell (IQAC) is established to sustain and enrich the quality of education. The prime task of IQAC is to develop a system for mindful and unswerving improvement in institutional performance. The objective of IQAC is directed towards the internalization and institutionalization of quality enrichment. To ensure the efficient functioning and effective implementation of IQAC, the IQAC coordinator interacts with various functionaries and acquaints the IQAC chairperson from time to time of the progress. IQAC meets at least four times a year and records its deliberations and suggests improvements in the academic/administrative functions.

The IQAC facilitate/contribute:

- 1) To a heightened level of clarity and focus on institutional functioning towards quality enhancement and facilitate internalization of the quality culture.
- 2) To the enhancement and integration among the various activities of the institution and institutionalize many good practices

Best practices – 1 Academic audit

The University publishes the academic calendar before the commencement of every academic year. Based on the calendar issued by the University and as per AICTE & DTE norms, the IQAC of the institution schedules programs for the academic year and publishes the academic calendar. In addition to this, the PG Coordinator, Chairperson of project committee and design project committee adds schedules as per the

programme plan. The timetable coordinator of each Department prepares and publishes the timetable each semester of the academic year. The faculty is assigned the task of creating course outcomes (CO) and lesson plans for the concerned course. Based on the course outcomes defined, the faculty maps the CO with the program outcomes (PO) and defines the levels. Academic monitoring will be done by the head of the Department frequently. The Internal Quality Assurance Cell conducts an internal audit twice a semester. This process ensures that the teaching and learning are happening properly and corrective actions can be taken if there are any issues. The remarkable achievement of IQAC is the conduct of academic audits through online mode using Campus Management System. This helps the institution to promote a paperless office and all the required documents are submitted for audit in the form of soft copy and stored in the cloud.

Best Practice -2 Promoting In-house Research Projects

The institution arranges interfaces among the institutions and industries to take up research projects which are relevant to the present world. The focal objective of the institution is to transform the students and faculty into productive citizens through an integrative and experiential learning process. Every student and faculty is encouraged to present their innovative ideas towards product development. The institution for this purpose has set up Project Laboratories in each Department by providing the best-suited equipment to conduct experiments. The milestone in this category is that the institution started a mechanism to provide sponsorship for innovative ideas and projects. The institution also encourages the staff and students to present and publish their research work in international, national-level conferences and journals. To encourage and motivate faculty members, incentives are provided for research publications.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

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 (For first cycle - Incremental improvements made for the preceding five years with regard to quality For second and subsequent cycles - Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives)

Response:

To ensure quality as the prime concern, the institution has formulated the Internal Quality Assurance Cell (IQAC) under the Chairmanship of the Principal. The main goal of IQAC is to develop a system for conscious, consistent and catalytic action to improve the academic and administrative performance of the institution. The IQAC is comprised of thirty-two members who actively participate in the assessment of the teaching and learning process in the institution and recommend the steps to be taken for improvements. The IQAC has introduced several initiatives to review the teaching-learning process, structure, and methodologies of operations and learning outcomes. The two transformations, among the many initiated by the IQAC are Bloom's Taxonomy and Feedback Mechanism.

Example – 1. Bloom's Taxonomy

Bloom's taxonomy is a classification system used to define and distinguish different levels of human cognition i.e., thinking, learning and understanding. It was created to provide the classic definition of the levels of educational activity, like memorizing facts to evaluating information. Three types of domains of knowledge defined are cognitive (knowledge), affective (attitudes) and psychomotor (physical skills). As our aim is not just to impart information to our students but to encourage their critical thinking and reasoning skills, we need to encourage higher-order thinking skills. Bloom's taxonomy was initiated by IQAC with the aim that it helps the faculty members to make the teaching and learning process more effective. Faculty members are given training regarding the pedagogical teaching-learning method, Bloom's taxonomy and outcome-based education through various workshops and faculty development programs conducted by IQAC. Training programs on Bloom's Taxonomy are given to upgrade the teaching skills and formulation of question papers. The question banks are prepared by respective faculty members adhering to Bloom's Taxonomy. Internal assessments, assignments/seminars and end-semester exams cover the various COs framed for the course. The IQAC Department coordinator under the guidance of HOD, checks for the standard of the question papers and will ensure that the questions are covering the course outcomes and as per Bloom's Taxonomy.

Example – 2 Feedback Mechanisms

Feedback is taken at different points of time during the semester.

- Feedback is collected from stakeholders like Students, Staff, Parents, Alumni and Employers regarding the design and review of the syllabus.
- The class/ course committee which is formed for all/ common subjects at the beginning of each semester includes students and staff representatives. The committee meets frequently to collect the feedback of the students regarding the conduct of classes.
- The staff advisory committee meets during the start and mid of the semester and takes the feedback from the students about the academic progress.
- Feedback regarding extra & co-curricular activities is also collected from students.
- Feedback regarding courses is obtained twice in a semester from students through CMS.
- Feedback about the institution is obtained from stakeholders through surveys such as staff satisfaction survey, employer survey and alumni survey.

The IQAC monitors the proper conduct of the feedback system and ensures that the feedback is analyzed and appropriate corrective actions are taken.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.5.3 Quality assurance initiatives of the institution include:

- 1.Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements**
- 2.Collaborative quality initiatives with other institution(s)**
- 3.Participation in NIRF**
- 4.any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)**

Response: B. 3 of the above

File Description	Document
Upload e-copies of the accreditations and certifications	View Document
Upload details of Quality assurance initiatives of the institution	View Document
Upload any additional information	View Document
Upload any additional information	View Document
Paste web link of Annual reports of Institution	View Document

Criterion 7 - 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 last five years.

Response:

The institution regularly conducts several events/ activities which are dedicated to promote gender equity. The institution has established Women Empowerment Cell and National Service Scheme (NSS) Cell to identify, address and conduct various programs on such issues. The students are educated to be sensitive towards issues such as gender bias, women empowerment and dowry.

The institution has sufficient number of security personnel and CCTV cameras to ensure the safety and security of all students and staff members within the campus. The housekeeping department of the institution primarily consists of female staff members. Common rooms have been provided for girls and boys separately.

To reach the college safely, highly comfortable and convenient transportation facility has been provided for the students and staff members from every nook and corner of Trivandrum on all working days. Every route has a faculty in charge to monitor the safety of the students during transit.

The institution has professional staff for counseling. Free and effective counseling sessions are provided periodically to students to discuss and rectify issues related to anxiety, stress, and other career-related problems of all students.

To empower, engage and enable women to upsurge to the best of their abilities throughout their career, the institution has conducted various events. 'MitraNiketan' which works in the fields of innovation, training, and extension in community development, environment, science, education, and appropriate technology has conducted an awareness program for girl students. The institution regularly conducts international Women's day celebrations. The students and staff of LMCST handed over 100 kg worth of provisions and donated dresses to Jwala Charitable Trust on Women's day. The NSS technical cell conducts blood donation camps, free medical camps, and nutrition awareness programs in which participation of girls and boys could be equally noticed.

To promote the active participation of girls in the Student Council, 40% of the seats are reserved exclusively for girls. Girls are also encouraged to participate in NCC and a female faculty is entrusted for the girl students. The Internal Complaint Committee has active participation of girls as student representatives.

The institution also promotes both girl and boy students to participate in student chapters of professional societies like ISTE and CSI. Girl students work shoulder to shoulder with boys in various clubs like debate, quiz and Arts. ISTE student chapter has conducted a debate competition on the topic 'Gender Equality- Does it exists in rural India'. As part of Onam celebrations, a contest exclusively for girls "Malayali Manka" is conducted every year. All students actively participate in literary events, editorial teams, art club, debate club, SADP Club (Student Aptitude Development Programme), PRHR Team and Quiz Club. The students also participated in Reboot Kerala Hackathon 2020 and Smart India Hackathon. All the

project teams are motivated to have at least one girl member. Equal opportunities are provided to female faculty members to coordinate and participate in all activities organized in the institution and take up academic administrative positions including IQAC Coordinator, Governing Board members, Chief Superintendent - Exam Cell and CMS Coordinator.

File Description	Document
Link for annual gender sensitization action plan	View Document
Link for specific facilities provided for women in terms of: a. Safety and security b. Counselling c. Common Rooms d. Day care center for young children e. Any other relevant information	View Document

7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures

1. Solar energy
2. Biogas plant
3. Wheeling to the Grid
4. Sensor-based energy conservation
5. Use of LED bulbs/ power efficient equipment

Response: A. 4 or All of the above

File Description	Document
Geotagged Photographs	View Document
Any other relevant information	View Document
Any other relevant information	View Document

7.1.3 Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)

- Solid waste management
- Liquid waste management
- Biomedical waste management
- E-waste management
- Waste recycling system
- Hazardous chemicals and radioactive waste management

Response:

LMCST is an eco-friendly campus. Edible wastes are utilized effectively inside the campus. Food wastes are given to pet animals, birds and buffaloes. Thus nature is made clean, tidy and nontoxic.

Solid Waste Management

LMCST encourages a paper-free campus by introducing an online process for admission, office work, fee payment, e-Audit, submission of assignments, projects and internal assessments. Glass splinters and aluminum scraps are separated and disposed of in an eco-friendly manner. Proper maintenance of infrastructure and furniture is done. Incinerators are installed on the campus for waste disposal.

Biogas plant for collecting the food waste from the college campus, cafeteria, boys and girls hostel. The biogas plant has a capacity of 6 m³. The slurry which is formed in the Biogas plant is used for organic farming. We use biogas for cooking at the cafeteria and boys' hostel. Buffalo's waste is used for organic farming. Food wastes from the hostel are given to the ducks. Ducks' waste driven to the pond becomes food for the fishes in the pond.

Liquid Waste Management:

Chemical solvents from laboratories are distilled and reused as far as possible. We are using non-harmful solutions. Very dilute solutions are used and once the experiment has been conducted, it is diluted again and disposed into the ground.

Wastewater is reused for gardening purposes and groundwater is recharged using water recharge pits. A miniature solar power heater is erected at the boys' hostel for heating and boiling of water. Crude oil waste from our vehicle workshop is being collected and disposed to authorized agency.

A separate well, solely for drinking water purposes is available. An RO plant has been installed on the campus for facilitating drinking water.

Biomedical Waste Management related to COVID-19 is carefully monitored to reduce pandemic risks and proper medical waste disposal is adopted to effectively control infection sources.

E-Waste Management

Maximum efforts are taken to utilize the existing hardware by regular servicing to reduce e-waste. Unavoidable e-wastes like printer cartridges and laptop batteries are returned to the company personnel. Earth Sense Recycle Pvt. Ltd. has undertaken the rights and ownership of the end-of-life electronic equipment. An external agency collects all the metal and plastic scraps.

Hazardous chemicals and radioactive waste management

To reduce the chemical waste, we are adopting Green Chemistry principles. Out of the various experiments specified in the University syllabus, our college is opting instrumental analysis to reduce chemicals. The following substances are not used for conducting experiments.

- Radioactive compounds Nil
- Heavy metal compounds Nil
- Carcinogenic Chemicals Nil
- Explosives Nil

The drainage lines from the sink are separated from normal waste water pipelines and not discharged to

any ponds, lakes, or land. The waste water is connected to an isolated concrete tank below the ground level which is properly and adequately coated with waterproofing and other materials to avoid percolation into the soil. The tank is isolated contains graded gravel, sand, Charcoal powder and calcium carbonate, and calcium oxide powders. It is sealed ensuring free of contamination.

File Description	Document
Any other relevant information	View Document
Link for Relevant documents like agreements/MoUs with Government and other approved agencies	View Document
Link for Geotagged photographs of the facilities	View Document

7.1.4 Water conservation facilities available in the Institution:

1. Rain water harvesting
2. Borewell /Open well recharge
3. Construction of tanks and bunds
4. Waste water recycling
5. Maintenance of water bodies and distribution system in the campus

Response: A. Any 4 or all of the above

File Description	Document
Geotagged photographs / videos of the facilities	View Document
Any other relevant information	View Document
Link for any other relevant information	View Document

7.1.5 Green campus initiatives include:

1. Restricted entry of automobiles
2. Use of Bicycles/ Battery powered vehicles
3. Pedestrian Friendly pathways
4. Ban on use of Plastic
5. landscaping with trees and plants

Response: B. 3 of the above

File Description	Document
Various policy documents / decisions circulated for implementation	View Document
Geotagged photos / videos of the facilities	View Document
Any other relevant documents	View Document
Link for any other relevant information	View Document

7.1.6 Quality audits on environment and energy are regularly undertaken by the Institution and any awards received for such green campus initiatives:

- 1.Green audit
- 2.Energy audit
- 3.Environment audit
- 4.Clean and green campus recognitions / awards
- 5.Beyond the campus environmental promotion activities

Response: A. Any 4 or all of the above

File Description	Document
Reports on environment and energy audits submitted by the auditing agency	View Document
Certification by the auditing agency	View Document
Any other relevant information	View Document
Link for any other relevant information	View Document

7.1.7 The Institution has disabled-friendly, barrier free environment

- 1.Built environment with ramps/lifts for easy access to classrooms.
- 2.Divyangjan friendly washrooms
- 3.Signage including tactile path, lights, display boards and signposts
- 4.Assistive technology and facilities for Divyangjan accessible website, screen-reading software, mechanized equipment
- 5.Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading

Response: B. 3 of the above

File Description	Document
Policy documents and information brochures on the support to be provided	View Document
Geotagged photographs / videos of the facilities	View Document
Any other relevant information	View Document
Link for any other relevant information	View Document

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 500 words).

Response:

The institution is situated in Kuttichal, a village lying under the foothills of Agastyarkudam of Sahya mountains. Most of the students admitted to the college are from the local community and around the Thiruvananthapuram city.

The local citizen's participation in extension activities is commendable. The college is playing an effective role as a catalyst in the village to maintain peace and national integration. The extension activities of the institution have a very positive impact on society's cultural & communal thoughts directly.

The Student's grievance and appeal committee and Women's internal complaint committee deal with grievances without considering anyone's racial or cultural background. LMCST has a code of ethics for students, teachers and other employees which must be followed irrespective of cultural, regional, linguistic, communal, socio-economic and other diversities.

The institution provides scholarships to meritorious students from low-income families as financial support. The government provides scholarships and various schemes for the economic development and social empowerment of SC/ST students. Laptops are distributed to SC/ST students through such government schemes.

Promote a Positive Classroom Environment: A positive environment can have a powerful and constructive effect on students' engagement and learning in a physical or virtual space. Every day, classes start with a prayer song that provides a peaceful atmosphere for all students, no matter their ethnicities, social-economic backgrounds, or educational preparedness.

Embrace Students' Diversity: We must value and embrace diversity—not just diverse talents, but diversity in ethnicity, religion, gender, sexual orientation, language, socioeconomic backgrounds, and even academic readiness for college. The Department associations, Arts club, Debate club, Quiz club, Student Aptitude Development (SADP), PR & HR Committee and Sukrutha Club organize various activities, competitions and invited lectures which educate the students and makes them aware of their social responsibilities. Students are encouraged to participate in various co-curricular and extracurricular activities to make them mingle with one another and share their opinions and disagreements in a harmonious manner.

Increase Our Own Cultural Competence: The college regularly organizes sports and cultural activities for inculcating the values of tolerance, harmony towards cultural diversities.

Encourage Student Interactions: The more academically and socially connected students feel to their college or university, the more likely they are to persist. Faculty can help support an institution's student engagement efforts by providing opportunities for students to meet and connect with each other.

Foster a Community of Learners Within Our Classes: Students are encouraged to collaborate and cooperate with their classmates. As our students start experiencing the benefits of being part of a classroom community, they are more likely to participate and will become more involved in learning the course content. Secondly, we can also confirm and support students by using academic validation practices to foster a community of learners because such practices can give students a sense of belonging, a vital component for improving retention and persistence rates.

File Description	Document
Link for any other relevant information	View Document
Link for supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View Document

7.1.9 Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens (within 500 words).

Response:

The institution is a role model of best governance and democracy. Not only the students and employees but every citizen of the village respects the institution for its contribution to social development. It is a unique practice in the college that 'National Anthem' is broadcasted at the end of all class hours. It reflects the strong attachment of the students and employees towards the values of the Indian Constitution.

Human Rights Day is observed internationally on the 10th of December every year. To spread human rights literacy and to promote awareness of human rights, LMCST observed Human Rights day on 11th Dec 2017 by taking human rights oaths.

The institution has adopted the Kuttichal Grama Panchayath Pezhumoodu Ward No.14 for providing extension activities in areas of health care, education and agriculture.

The NSS units of LMCST are bestowed with the prestigious SAGY award of AICTE in the year 2018 for its outstanding contribution for the growth and development of villages nearby under the theme "Developed Village-Developed Nation".

NSS volunteers actively participated in the Suchitva Harthal organized by Kuttichal Grama Panchayath on 30th May 2018. The program was inaugurated by Mr. G Manikandan, President, Kuttichal Grama Panchayath. Dr. Joy, Medical Officer, PHC Paruthipally and Mr. Sudheer Kumar Standing

Committee Chairman felicitated the function.

The NSS technical cell along with Snehitha Women Foundation and ChristuJayanthi Charitable Society conducted a Cancer Detection Camp on 12.8.2017.

Every year the College organizes NSS Camps in nearby villages. Through these camps students are enabled to moral values, understanding the rights and duties of the citizens. These camps enable them to recognize their responsibilities and also to be good citizens. This attempt not only helped in the sensitization of students but also faculty members.

KTU has introduced the courses Professional Ethics (HUT 200) and Constitution of India (MCN202) for B. Tech program, Business ethics and Corporate Governance and Ethics Governance and Corporate Responsibility for MBA program with the objective to maintain integrity in the society and promote unity among the citizens to build a great nation. This helps to mould the students and staff to become responsible citizens by sensitizing them to the constitutional obligations namely values, rights, duties, and responsibilities of the citizens.

Value education programs are organized for the holistic development of students. As a result of holistic education, the students would know the values of human life, how to respect others, how to be aware and avoid doing harm and at the same time, being ready to help others in all possible ways.

AICTE has come across a simple, extremely effective, and promising content and methodology called "Universal Human Value (UHV)". The content is universal, rational, verifiable, and leading to harmony – and it is an immediate and positive indicator of self-development as well as institutional progress.

Faculties from our college attended the training program to mentor students and to teach UHV.

The institution has conducted awareness programs and rallies on world nature conservation day, plastic-free, cleanliness, save water, and Swachh Bharat involving students and staff of the institution.

File Description	Document
Link for details of activities that inculcate values necessary to render students in to responsible citizens	View Document
Link for any other relevant information	View Document

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.

- 1. The Code of Conduct is displayed on the website**
- 2. There is a committee to monitor adherence to the Code of Conduct**
- 3. Institution organizes professional ethics programmes for students, teachers, administrators and other staff**
- 4. Annual awareness programmes on Code of Conduct are organized**

Response: B. 3 of the above

File Description	Document
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	View Document
Code of ethics policy document	View Document
Any other relevant information	View Document

7.1.11 Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).

Response:

The institution aims to inculcate values, nationalism and feeling of oneness among the students by celebrating the national festivals and birth anniversaries of great Indian personalities in the college campus every year.

The students enthusiastically participate in various programs organized to celebrate national and international commemorative days, events and festivals. 1. Academic programs like seminar, conferences, expert talks and workshops which have enriched the awareness about these aspects.

2. Competitions like poster presentations, pencil drawing, essay writing and elocution

3. Awareness camps to impart awareness of such issues.

Following national and international commemorative days, events and festivals are celebrated at LMCST:

- **February 28:** National Science Day - to mark the discovery of the Raman Effect by Indian physicist Sir C. V. Raman
- **March 8:** International Women's Day - celebrating the social, economic, cultural, political achievements of women and marks a call to action for accelerating gender parity.
- **March 22:** World Water Day - highlights the importance of fresh water.
- **May 11:** National Technology Day celebrates the achievements and contributions of Indians to science and technology.
- **June 5:** World Environment Day – provide awareness and action for the protection of the environment.
- **June 14:** Blood Donor Day - raise awareness of the need for safe blood and to thank blood donors
- **June 21:** International Day of Yoga - raise awareness of the benefits of practicing yoga.
- **June 26:** International Day against Drug Abuse and Illicit Trafficking – raise awareness against drug abuse and the illegal drug trade.

- **July 12:** Paper Bag Day - spread awareness about using paper bags instead of plastic to help reduce plastic waste that take thousands of years to decompose.
- **July 28:** World Nature Conservation Day - raise awareness about protecting the natural resources and the importance of the conservation of nature.
- **August 15:** Independence day is annually celebrated on 15 August, as a national festival of India commemorating the nation's independence
- **September 5 :** Teachers' Day - to commemorate the birth anniversary of Dr. Sarvepalli Radhakrishnan
- **September 15:** Engineers day - tribute to the greatest Indian Engineer Bharat Ratna Mokshagundam Visvesvaraya.
- **October 1:** World Smile day - perfect day to make others smile while also ensuring you have a smile on your face as well.
- **October 2:** Gandhi Jayanthi - to mark the birth anniversary of Mahatma Gandhi.
- **October 10:** World Mental Health Day - international day for global mental health education, awareness and advocacy against social stigma.
- **November 1:** Kerala day (Kerala Piravi), marks the birth of the state of Kerala in southern India.
- **December 10:** Human Rights Day - to honor the United Nations General Assembly's adoption and proclamation of the Universal Declaration of Human Rights (UDHR).
- Vigilance awareness week is observed from 26th October to 1st November as per the guidelines of the Central Vigilance Commission.
- Festivals like Onam and Christmas are celebrated with joy and enthusiasm involving all students, faculty and staff.

File Description	Document
Link for any other relevant information	View Document
Link for Geotagged photographs of some of the events	View Document
Link for Annual report of the celebrations and commemorative events for the last five years	View Document

7.2 Best Practices

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

Response:

7.2.1 BEST PRACTICE-1

LOURDES MATHA COLLEGE OF SCIENCE AND TECHNOLOGY is fully automated using **Campus 7** campus management software which facilitates the processes followed by the college in its entirety and enables them to be streamlined. It helps in reducing the time spent, saves cost, and enhances the experience of Management, Faculty, Parents, and the Students involved in the system. Campus Management Software provides a list of applications to support various educational, administrative and operational needs of the

College.

1. Title of the practice

The Learning Management Software (**Campus 7**) in LMCST

2. Objectives of the practice

Campus 7 offers immense benefits to all users, making it a single tool to manage the entire campus operations. It enhances every aspect of learning, academics, administration, and student feedback & progress.

?Benefits for Teachers

Reduce paperwork, streamline and monitor the academic activities efficiently.

?Benefits for Students

Get access to course materials and other data online. Build effective student-teacher interaction.

?Benefits for Parents

Get instant notifications and access to student activities and progress on the go.

?Academic audit internal and external

Enables academic audit efficient, effortless and foolproof.

?Benefits for Management

Advanced analytics helps to monitor the entire campus efficiently.

3. The Context

Login credentials are given to all faculties and students. Subjects and classes are mapped to each faculty and they can upload the learning materials including video lectures. Upkeeping course diaries, attendance marking, conducting of assignments and online exams are the basic features. Students can access the features relating to their academics. Parents also have the login credentials and they can check their ward performance.

4. The Practice

Revolutionary Campus Management Software Solution with easy and powerful tools that are scalable to support the expanding needs of the college.

?Cloud-Based Software Solution

Access the data from anywhere in the world 24/7 through our secure cloud

?Highly Customizable

Certain features have been customized and thus easily available in online mode.

?User-friendly Interface

Cognitive design with accessible user screen which provides the better user experience

?Complete Student Life Cycle

Manages all the operations of an entire course cycle

?Increased Efficiency

Increase academic performance and administrative efficiency.

?Efficient Support Team

Experienced and efficient support team assists all aspects.

Campus 7 software provides a list of applications to support various educational, administrative, and operation needs of the Institution. Each of these applications is built to be able to configure and customize for the needs of the college.

The staff and student database can be maintained using CMS.

Core modules are:

?Enquiry & Admissions Management

?HR Management

?Academics Management

?Billing & Fee Management

?Student Login & Profile Management

?Managerial (MIS) Reports

?Messaging - (Internal Message, Email, SMS) *

?User Management

?Learning Management Systems

?Fleet Management

MASTER INFORMATION

?Total Active Students

?Total Employees

?Total Courses

?Total Batches

STUDENT DATA

?Student Admission Process

?Student Profile

?Student Grievance

HR

?Employee Profile

?Employee Biometric Attendance Report

?Leave Request /Approval

ACADEMICS

?Subject Details

?Subject Allocation

?Subject Proposed Plan

?Subject Actual Coverage

?Assignments

?Learning Materials

?Online Exam

?Final Internal Calculation

TIMETABLE

?Timetable creation

?Timetable History

SUBJECTS

?Subject Details

?Employee Association

?Assign Elective

?Assign Specialization

STUDENT ATTENDANCE

?Duty Leave

?Medical Leave

?Consolidated Attendance

?Attendance Reports

?Batchwise Monitoring

?Absent List

EXAM

?Exam Creation

?Internal Marks Rules

?Exam Reports

STAFF RATINGS

?Rating Periods

?Question Creation

?Rating Result

MESSAGES

?Notification/Email/SMS

?Student Absentees Automatic SMS

?General Announcements

TRANSPORT

?Vehicle List

?Areas and Pickup Points

?Routes

?Vehicle Tracking

?Live Location

HOSTEL

?Hostel List

?Students List

?Students Attendance

LMS

?Assignments

?Learning Materials

?Online Exam

INVENTORY

?Store Items

?Store Categories

?Purchase Bills

?Suppliers List

?Supplier Account Ledger

?Store Item Transactions

?Supplier Balance Report

?Purchase Register

EVENTS

?Create Events

?Event List

?Event Calendar

USERS

?User List

?User Groups

?Access Permission

?Widget Permission

LOGS

?User Login Log

?User Action Log

SETTINGS

?Course Categories

?Batch Groups

?Admission Years

The system generates the above-mentioned reports and they can be assigned to each user based on their category.

5. Evidence of Success

? Campus 7 saves time, money, and man-hours enabling access to all our information just a mouse clicks away.

? Paperless monitoring of all academic activities such as teaching, learning, course planning, evaluation, attendance, continuous student progress and feedback.

? Paperless course diary, audit reports, and seamless archival of all data

? Online access to study materials and video lectures for revision, missed classes and revision for backlog students.

- ? Processing and management of employee attendance, leave.
- ? Inventory control
- ? Students and faculty transportation management
- ? Hostel management
- ? Finance module for managing all accounts
- ? Cloud-based, software as a service solution (SAS) and hence does not require investment and maintenance of costly servers and associated hardware.
- ? Accessibility through the internet for management, faculties, students, and parents.
- ? An efficient support team is assisting us throughout our journey adapting new requirements arising due to changes in University norms and regulations.
- ? It served as a perfect platform supporting online classes and associated online evaluation to overcome difficulties encountered during the Covid-19 scenario.
- ? It has a user-friendly interface. Cognitive design with accessible user screen which provides a better user experience
- ? Enables effortless and foolproof Internal Quality Assurance and audit process.

6. Problems Encountered and Resources Required

Initially, it was a challenge to train all faculties, staff, and students to familiarize and effective usage of all facilities available in the “**Campus 7**” software.

Additional resources are not required and no problems are faced after the training of staff and final implementation of the program.

7.2.2 BEST PRACTICE-2

1. Title of the practice

USE OF GREEN ENERGY

2.Objectives of the practice

The objective is to maximize the use of green energy for the campus energy requirements. Presently, 80% of the total energy requirement of the college is met through Solar energy. For this purpose, a 100kw Grid-tied solar power plant was installed and operational in Lourdes Matha College of Science and Technology (LMCST). This solar power plant not only reduces pollution but also saves about Rupees

13.5 lakhs per year in energy charges.

Converting solar energy into electrical energy is one of the best ways to reduce fossil fuel consumption and reduce environmental pollution. Owing to the availability of high efficiency, long-life solar cells and the development of reliable, smart grid-tied inverter technology, it has become possible to use such a system for large power plant needs.

3.The Context

The reduction of environmental pollution and cost-saving on energy/electric power usage is of paramount importance. The challenges are trouble-free, long-lasting and cost-effective alternatives. The grid-tied solar power plant technology has matured and overcome all the above difficulties for practical use. The initial investment can be recovered in about four to five years and further has fifteen to twenty years of life. Once the initial investment is recovered, it becomes free energy for the rest of the life period.

4.The Practice

Solar PV modules produce DC electricity. They may be used in single-module and multiple-module systems to meet the wide range of current/voltage requirements. A smart grid-tied inverter converts DC voltage generated by Solar PV modules to AC voltage and maintains the voltage-current operating point of the solar panel at the optimal value so that maximum power is extracted from the solar panel(MPPT). The inverter senses the grid frequency and voltage level and adjusts its output frequency the same as the grid power and adjusts its voltage marginally higher than grid voltage so that the inverter can export energy to the grid when excess is produced. The inverter has smart wireless internet connectivity through which all operating parameters are monitored for safety and maintenance.

100 KW ON-GRID Solar Power Generating System -Salient Parts

Solar PV Module 395Wp Mono PERC (Waaree make)

72 Cells module - 254 nos.

On-Grid Solar Inverter 55KW - 2Nos (Solar Edge make)

Power Optimizer - 126 nos. (Solar Edge make)

5. Evidence of Success

- Clean and eco-friendly energy
- 80% Energy Cost Saving
- Efficient use of rooftop
- Reduces heating of the roof and air-conditioning requirement
- Increasing overall grid capacity in the daytime.

- Optimum power plant sizing

6. Disadvantages / Problems Encountered

The operation of the plant requires the grid power to be available in the daytime necessarily. When grid power is not available, the system cannot work. To overcome this, we need to store energy using batteries. The use of batteries increases the cost which is difficult to meet. Hence during power cuts, we need to have UPS for sensitive equipment and systems.

File Description	Document
Link for any other relevant information	View Document
Link for Best practices in the Institutional web site	View Document

7.3 Institutional Distinctiveness

7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Response:

Objectives:

To provide financial aid to economically weak meritorious students to pursue higher studies irrespective of social denomination.

The various schemes provided are

I. KARUNYA VARSHAM SCHOLARSHIP

The KarunyaVarsham Scholarship(KVS) scheme was introduced in the year 2015 by Lourdes Matha Catholic Educational Society (LMCES) as a part of extension activities by the college. The Scholarship Scheme is a desideratum as part of Social Responsibility.

KarunyaVarsham Scholarship is provided by Lourdes Matha College of Science and Technology (LMCST). This scholarship scheme provided financial aid worth INR **1.6** Crores from 2015 to 2018. It aims at helping students who are academically brilliant but financially weak to pursue their higher studies. This remarkable Scholarship offered by Lourdes Matha College of Science and Technology has encouraged and supported many students to pursue full-time engineering courses in LMCST and other engineering colleges in Kerala.

a. Application Process for KarunyaVarsham Scholarship

There are online and offline application processes available for applying for the scholarship.

- Online Procedures: Students can apply through the Scholarship portal "KarunyaVarsham Scholarship Scheme for B.Tech".
- Offline Procedure: Students can download the application form, fill in all the mandatory information, and send it to the Principal, LMCST. Students can also avail themselves of application forms through their schools.
- Students who have secured 60 percent or above marks in plus one (11th std.) are eligible for applying for the KVSE.

b. Selection Process for KarunyaVarsha Scholarship

1. Candidates are ranked based on their marks in the KVS Examination (weightage of 50 out of 100) and PCM marks (Physics, Chemistry, Maths) obtained in Plus 2 (weightage of 50 out of 100).
2. Students must also qualify for the KEAM (Kerala Engineering Architecture Medical) examination to be eligible for the scholarship.
3. The selected students should qualify to get admission either through government quota or through management quota in LMCST for B.Tech course.
4. A minimum cut-off mark of 70% in plus two (PCM aggregate) and KVS examination separately are required to be ranked in the final selection list.
5. For subsequent years, the scholarship will continue, provided the student clears all the subjects in each semester in the first attempt during the study.

c. Awards and Benefits of Karunya Varsha Scholarship

The awarded and selected students are provided with the following benefits:

1. 10 percent of the total seats are reserved for primary KVS scholarship (33 for 330 total seats)
2. Top 10 students among the selected meritorious candidates are eligible for 100 percent tuition fee remission i.e, reimbursement of INR 75,000/- for those students who study in LMCST.

Additionally, they are eligible for a designated Scholarship of INR 20,000 (INR 5000 per year). This is procurable if they are studying engineering in any self-financing colleges in Kerala including LMCST.

3. Remaining 23 students pinned in the merit list are eligible for tuition fee reduction up to Rs.40000/- every year if they are pursuing B.Tech in LMCST.
4. In addition to the 10 percent (33 seats) KVS scholarship seats, additional candidates who have qualified in the KVS examination will be provided with INR 10,000 as tuition fee reduction every year for pursuing a B.Tech degree in LMCST.

II. LOURDES MATHA SCHOLARSHIP

The Lourdes Matha Scholarships are for B.Tech students of all branches studying in LMCST. For this scholarship, there is no specific scholarship examination conducted. Scholarships are based on plus two (11th& 12th std.) marks for Maths, Physics, Chemistry, and Kerala State Entrance examination (KEAM) rank.

Based on the merit level (Marks in plus two + KEAM rank), different scholarship amounts are fixed and awarded. The scholarship's tenure is renewed every year based on the performance of the student in the university examination for admissions from 2015 to 2018. The scholarship tenure covers the full course duration for 2019 and 2020 admissions.

The scholarship amount ranges from Rs 75000/-(Full tuition fee) to Rs 10000/- every year on tuition fee. Minimum eligibility for a scholarship is 60% aggregate marks in PCM and better than 40000 ranks in the KEAM examination.

III. MAR KAVUKATTU SCHOLARSHIP

This special scholarship is provided by the Archdiocese of Changanassery as part of their charity activities from 2019 onwards to the students studying in LMCST. Rs 60 lakhs provided as financial support in 2019 and 2020 together to meritorious and economically weak students selected by the executive committee of the LMCST irrespective of social denomination.

IV. XIME SCHOLARSHIP

LMCST has entered into an academic collaboration with XIME, Bangalore, rated among the top 1% Business Schools in the country. Faculties from XIME are providing specialized training and coaching for MBA students of LMCST. This collaboration brings enhanced program delivery apart from a new focus on soft skills to make the students employable. It leverages XIME Bangalore's corporate connect to bring in better industry linkage and placement opportunities to our MBA graduates.

LMCST jointly with XIME provides special scholarships to deserving MBA students of LMCST. In 2019 and 2020 Rs.126000/- were provided as scholarships to MBA students and also XIME supported LMCST in placement, training, infrastructure, library, and other facilities. These scholarships include Prof. J. Philip Scholarship of an amount of 2 lakhs to a meritorious student every year and a cash award of Rs.25,000 for the student scoring the highest CGPA in the 1st year.

File Description	Document
Link for appropriate web in the Institutional website	View Document
Link for any other relevant information	View Document

5. CONCLUSION

Additional Information :

Approach

In the case of SWOC analysis, the major step is to identify each one of them with unbiased attention & care, review and discussion. This process is completed for LMCST with wider consultations with faculty, experts from academia and industry. The following points on SWOC analysis are identified and analyzed.

Concluding Remarks :

The SWOC analysis is essential and crucial for all organizations. This is of paramount importance to professional colleges, particularly due to unemployment of graduated students pertaining to lack of quality of professional education, lack of suitable skill level of the students for employment and unhealthy competition among professional colleges. We need to consider these aspects objectively so that the entire infrastructure already established can be effectively utilized for creating quality professionals for the nation-building process.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																				
1.1.3	<p>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 last five years</p> <ol style="list-style-type: none"> 1. Academic council/BoS of Affiliating university 2. Setting of question papers for UG/PG programs 3. Design and Development of Curriculum for Add on/ certificate/ Diploma Courses 4. Assessment /evaluation process of the affiliating University <p>Answer before DVV Verification : B. Any 3 of the above Answer After DVV Verification: C. Any 2 of the above Remark : Option number 2 & 4 are considered and edited accordingly.</p>																				
1.2.2	<p>Number of Add on /Certificate programs offered during the last five years</p> <p>1.2.2.1. How many Add on /Certificate programs are offered within the last 5 years. Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>19</td> <td>27</td> <td>15</td> <td>15</td> <td>6</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>13</td> <td>21</td> <td>13</td> <td>11</td> <td>2</td> </tr> </tbody> </table> <p>Remark : Programs conducted under regular university curriculum is not considered and edited accordingly.</p>	2020-21	2019-20	2018-19	2017-18	2016-17	19	27	15	15	6	2020-21	2019-20	2018-19	2017-18	2016-17	13	21	13	11	2
2020-21	2019-20	2018-19	2017-18	2016-17																	
19	27	15	15	6																	
2020-21	2019-20	2018-19	2017-18	2016-17																	
13	21	13	11	2																	
1.2.3	<p>Average percentage of students enrolled in Certificate/ Add-on programs as against the total number of students during the last five years</p> <p>1.2.3.1. Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>456</td> <td>467</td> <td>356</td> <td>367</td> <td>321</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>448</td> <td>463</td> <td>356</td> <td>340</td> <td>102</td> </tr> </tbody> </table>	2020-21	2019-20	2018-19	2017-18	2016-17	456	467	356	367	321	2020-21	2019-20	2018-19	2017-18	2016-17	448	463	356	340	102
2020-21	2019-20	2018-19	2017-18	2016-17																	
456	467	356	367	321																	
2020-21	2019-20	2018-19	2017-18	2016-17																	
448	463	356	340	102																	

Remark : Input edited as per the clarification document provided by the HEI.

1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years

1.3.2.1. Number of courses that include experiential learning through project work/field work/internship year-wise during last five years

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
216	314	385	372	397

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
11	16	28	20	17

1.3.3 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)

1.3.3.1. Number of students undertaking project work/field work / internships

Answer before DVV Verification : 339

Answer after DVV Verification: 358

Remark : Input edited as per the clarification and previous document provided by the HEI.

1.4.1 *Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders*

1) Students

2) Teachers

3) Employers

4) Alumni

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: A. All of the above

Remark : DVV partner has asked for 5 sample feedback form from all stakeholders but HEI has provided only 1 sample copy from all stakeholder hence option A is considered and edited accordingly.

1.4.2 Feedback process of the Institution may be classified as follows:

Options:

1. **Feedback collected, analysed and action taken and feedback available on website**
2. **Feedback collected, analysed and action has been taken**
3. **Feedback collected and analysed**
4. **Feedback collected**
5. **Feedback not collected**

Answer before DVV Verification : A. Feedback collected, analysed and action taken and feedback available on website

Answer After DVV Verification: B. Feedback collected, analysed and action has been taken

Remark : As per the clarification and previous document feedback collected, analyzed and feedback available on website is considered and edited accordingly.

2.1.1 **Average Enrolment percentage (Average of last five years)**

2.1.1.1. **Number of students admitted year-wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
284	210	129	196	243

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
284	210	129	196	243

2.1.1.2. **Number of sanctioned seats year wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
456	474	474	474	654

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
456	474	474	534	690

Remark : For metric 2.1.1.2 input edited w.r.t EoA year wise provided by the HEI.

2.1.2 **Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (exclusive of supernumerary seats)**

2.1.2.1. Number of actual students admitted from the reserved categories year-wise during the last five years

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
114	91	55	75	102

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
105	91	55	75	102

Remark : Input edited as per the clarification document provided by the HEI.

2.4.2 Average percentage of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)

2.4.2.1. Number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. year wise during the last five years

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
12	7	9	9	7

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
6	6	5	4	3

Remark : Input edited as per the PhD. certificates and previous document provided by the HEI.

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

2.4.3.1. Total experience of full-time teachers

Answer before DVV Verification : 657.4

Answer after DVV Verification: 664.23

Remark : Input edited as per the 3.1 metric. Only full time teachers are considered and edited accordingly.

2.6.3 Average pass percentage of Students during last five years

2.6.3.1. Number of final year students who passed the university examination year-wise during the last five years

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
74	114	133	156	237

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17

74	73	79	156	237
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2.6.3.2. Number of final year students who appeared for the university examination year-wise during the last five years

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
174	242	325	343	424

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
174	189	178	343	424

Remark : Input edited as per the clarification document provided by the HEI.

3.1.1 Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)

3.1.1.1. Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
0	3	0	3	0

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
0	3	0	2	0

3.1.3 Percentage of departments having Research projects funded by government and non government agencies during the last five years

3.1.3.1. Number of departments having Research projects funded by government and non-government agencies during the last five years

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
0	2	0	2	0

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
0	2	0	1	0

3.1.3.2. Number of departments offering academic programmes

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
7	7	7	7	7

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
7	7	7	7	7

Remark : Input edited as per the metric 3.1.1 and edited accordingly.

3.2.2 Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years**3.2.2.1. Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year-wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
7	3	9	10	5

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
9	3	9	9	4

3.3.1 Number of Ph.Ds registered per eligible teacher during the last five years**3.3.1.1. How many Ph.Ds registered per eligible teacher within last five years**

Answer before DVV Verification : 1

Answer after DVV Verification: 1

3.3.1.2. Number of teachers recognized as guides during the last five years

Answer before DVV Verification : 4

Answer after DVV Verification: 1

Remark : As per the documents uploaded in clarification the input is edited.

3.3.2 Number of research papers per teachers in the Journals notified on UGC website during the last five years**3.3.2.1. Number of research papers in the Journals notified on UGC website during the last five years.**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17

12	10	14	16	57
----	----	----	----	----

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
9	6	9	13	55

Remark : Considered only UGC (Research paper) and Scopus indexing and edited accordingly.

3.3.3 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

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 last five years

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
11	5	3	20	10

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
1	0	1	1	2

Remark : Considered only ISBN number with respect to date of publication.

3.4.2 Number of awards and recognitions received for extension activities from government/ government recognised bodies during the last five years

3.4.2.1. Total number of awards and recognition received for extension activities from Government/ Government recognised bodies year-wise during the last five years.

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
2	1	2	5	1

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
1	0	0	1	0

3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years

3.4.3.1. Number of extension and outreach Programmes conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
4	13	15	22	20

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
2	7	4	2	9

Remark : Input edited as per the report provided by the HEI.

3.4.4 Average percentage of students participating in extension activities at 3.4.3. above during last five years

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 last five years

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
53	343	555	1562	2986

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
23	212	129	196	245

Remark : Input edited as per the clarification document provided by the HEI.

3.5.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year

3.5.1.1. Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year-wise during the last five years

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
1	19	63	14	7

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17

0	0	0	1	0
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Remark : For the academic year (2017-18): Collaboration activity considered under ICT academy of Kerala.

3.5.2 Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the last five years

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

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
6	5	5	1	1

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
5	5	5	1	1

Remark : Input edited as per the E copy of MoU provided by the HEI.

4.1.4 Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years(INR in Lakhs)

4.1.4.1. Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
8.87	16.35	7.83	19.56	23.84

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
9.01	16.35	7.83	19.56	23.37

Remark : Input edited as per the audited statement provided by the HEI.

4.2.3 Average annual expenditure for purchase of books/e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)

4.2.3.1. Annual expenditure of purchase of books/e-books and subscription to journals/e-journals year wise during last five years (INR in Lakhs)

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17

0.87230	3.48	2.33	3.12	16.69
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Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
0.87	3.43	1.20	2.10	5.2

Remark : With respect to Invoice and audited statement provided in 4.4.1 metric the input is edited.

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

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

Answer before DVV Verification : 600

Answer after DVV Verification: 90

Remark : With reference to previous document first five dates from 7/12/2021 to 13/12/2021 considered and edited accordingly.

4.3.3 Bandwidth of internet connection in the Institution

Answer before DVV Verification : A. 750 MBPS

Answer After DVV Verification: E. < 5 MBPS

4.4.1 Average percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years(INR in Lakhs)

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

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
74.67	217.311	187.211	258.211	249.09

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
81.62	217.311	187.211	258.211	249.09

Remark : Input edited as per the audited statement provided by the HEI.

5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during last five years

5.1.1.1. Number of students benefitted by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
81	79	56	55	47

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
81	79	56	55	47

5.1.3 Capacity building and skills enhancement initiatives taken by the institution include the following

1. **Soft skills**
2. **Language and communication skills**
3. **Life skills (Yoga, physical fitness, health and hygiene)**
4. **ICT/computing skills**

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: B. 3 of the above

Remark : Options 1,2 & 3 are considered and edited accordingly.

5.1.4 Average percentage of students benefitted by guidance for competitive examinations and career counselling offered by the Institution during the last five years

5.1.4.1. Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
4	3	6	4	0

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
141	63	80	324	59

Remark : Input edited as per the clarification document provided by the HEI.

5.2.1 Average percentage of placement of outgoing students during the last five years

5.2.1.1. Number of outgoing students placed year - wise during the last five years.

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
58	52	80	46	39

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
57	49	79	46	0

Remark : 1) Input edited as per the appointment letter provided by the HEI. 2) Internship letter is not considered under this metric.

- 5.2.2 **Average percentage of students progressing to higher education during the last five years**
- 5.2.2.1. **Number of outgoing student progression to higher education during last five years**
 Answer before DVV Verification : 73
 Answer after DVV Verification: 77

- 5.2.3 **Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: IIT-JAM/CLAT/ NET/SLET/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations, etc.)**

5.2.3.1. **Number of students qualifying in state/ national/ international level examinations (eg: IIT/JAM/ NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations, etc.)) year-wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
9	17	5	2	1

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
3	8	4	3	0

5.2.3.2. **Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year-wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
25	36	29	26	28

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
25	36	29	26	28

Remark : Input edited as per the qualifying certificates of students provided by the HEI.

5.3.1 **Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter-university/state/national / international level (award for a team event should be counted as one) during the last five years.**

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) year-wise during the last five years.**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
3	15	15	15	11

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
0	1	1	0	1

Remark : Input edited as per the E-copies provided by the HEI.

5.3.3 **Average number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions)**

5.3.3.1. **Number of sports and cultural events/competitions in which students of the Institution participated year-wise during last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
154	281	121	111	124

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
3	6	7	06	06

Remark : All activities conducted under an event is counted as one event and edited accordingly.

5.4.2 **Alumni contribution during the last five years (INR in lakhs)**

Answer before DVV Verification : A. ? 5 Lakhs

Answer After DVV Verification: E. <1 Lakhs

Remark : DVV partner asked for the annual audited statement which reflects the alumni contribution but HEI has not provided hence the input is edited.

6.3.2 **Average percentage of teachers provided with financial support to attend**

conferences/workshops and towards membership fee of professional bodies during the last five years

6.3.2.1. Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
6	6	6	25	65

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
6	6	6	25	65

6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course).

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

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
167	28	23	109	66

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
28	16	8	29	29

Remark : Input edited as per the certificates provided by the HEI.

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

6.4.2.1. Total Grants received from non-government bodies, individuals, Philanthropers year wise during the last five years (INR in Lakhs)

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
0	7	3	1	0

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	8.2	0.20	0

Remark : Input edited as per the E-copy provided by the HEI.

6.5.3	<p>Quality assurance initiatives of the institution include:</p> <ol style="list-style-type: none"> 1. Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements 2. Collaborative quality initiatives with other institution(s) 3. Participation in NIRF 4. any other quality audit recognized by state, national or international agencies (ISO Certification, NBA) <p>Answer before DVV Verification : A. All of the above Answer After DVV Verification: B. 3 of the above Remark : Input edited as per the document provided by the HEI.</p>
7.1.5	<p>Green campus initiatives include:</p> <ol style="list-style-type: none"> 1. Restricted entry of automobiles 2. Use of Bicycles/ Battery powered vehicles 3. Pedestrian Friendly pathways 4. Ban on use of Plastic 5. landscaping with trees and plants <p>Answer before DVV Verification : A. Any 4 or All of the above Answer After DVV Verification: B. 3 of the above Remark : Input edited as per the clarification & previous document.</p>
7.1.10	<p>The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.</p> <ol style="list-style-type: none"> 1. The Code of Conduct is displayed on the website 2. There is a committee to monitor adherence to the Code of Conduct 3. Institution organizes professional ethics programmes for students, teachers, administrators and other staff 4. Annual awareness programmes on Code of Conduct are organized <p>Answer before DVV Verification : A. All of the above Answer After DVV Verification: B. 3 of the above Remark : Input edited as per the clarification document provided by the HEI.</p>

2.Extended Profile Deviations

ID	Extended Questions
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1.1	<p>Number of courses offered by the Institution across all programs during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1" data-bbox="196 271 986 383"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>355</td> <td>369</td> <td>393</td> <td>440</td> <td>486</td> </tr> </tbody> </table> <p>Answer After DVV Verification:</p> <table border="1" data-bbox="196 461 986 573"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>354</td> <td>364</td> <td>365</td> <td>360</td> <td>349</td> </tr> </tbody> </table>	2020-21	2019-20	2018-19	2017-18	2016-17	355	369	393	440	486	2020-21	2019-20	2018-19	2017-18	2016-17	354	364	365	360	349
2020-21	2019-20	2018-19	2017-18	2016-17																	
355	369	393	440	486																	
2020-21	2019-20	2018-19	2017-18	2016-17																	
354	364	365	360	349																	
1.2	<p>Number of programs offered year-wise for last five years</p> <p>Answer before DVV Verification:</p> <table border="1" data-bbox="196 734 986 846"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>13</td> <td>10</td> <td>10</td> <td>10</td> <td>12</td> </tr> </tbody> </table> <p>Answer After DVV Verification:</p> <table border="1" data-bbox="196 925 986 1037"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>11</td> <td>10</td> <td>10</td> <td>10</td> <td>10</td> </tr> </tbody> </table>	2020-21	2019-20	2018-19	2017-18	2016-17	13	10	10	10	12	2020-21	2019-20	2018-19	2017-18	2016-17	11	10	10	10	10
2020-21	2019-20	2018-19	2017-18	2016-17																	
13	10	10	10	12																	
2020-21	2019-20	2018-19	2017-18	2016-17																	
11	10	10	10	10																	
2.1	<p>Number of students year-wise during last five years</p> <p>Answer before DVV Verification:</p> <table border="1" data-bbox="196 1205 986 1317"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>740</td> <td>719</td> <td>819</td> <td>1025</td> <td>1264</td> </tr> </tbody> </table> <p>Answer After DVV Verification:</p> <table border="1" data-bbox="196 1395 986 1507"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>792</td> <td>756</td> <td>819</td> <td>1012</td> <td>1232</td> </tr> </tbody> </table>	2020-21	2019-20	2018-19	2017-18	2016-17	740	719	819	1025	1264	2020-21	2019-20	2018-19	2017-18	2016-17	792	756	819	1012	1232
2020-21	2019-20	2018-19	2017-18	2016-17																	
740	719	819	1025	1264																	
2020-21	2019-20	2018-19	2017-18	2016-17																	
792	756	819	1012	1232																	
2.2	<p>Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during last five years</p> <p>Answer before DVV Verification:</p> <table border="1" data-bbox="196 1697 986 1809"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>132</td> <td>132</td> <td>132</td> <td>132</td> <td>192</td> </tr> </tbody> </table> <p>Answer After DVV Verification:</p> <table border="1" data-bbox="196 1888 986 2000"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>165</td> <td>165</td> <td>165</td> <td>165</td> <td>240</td> </tr> </tbody> </table>	2020-21	2019-20	2018-19	2017-18	2016-17	132	132	132	132	192	2020-21	2019-20	2018-19	2017-18	2016-17	165	165	165	165	240
2020-21	2019-20	2018-19	2017-18	2016-17																	
132	132	132	132	192																	
2020-21	2019-20	2018-19	2017-18	2016-17																	
165	165	165	165	240																	
2.3	<p>Number of outgoing / final year students year-wise during last five years</p>																				

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
153	221	302	329	435

Answer After DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
180	247	322	329	435

3.1 **Number of full time teachers year-wise during the last five years**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
83	94	124	129	118

Answer After DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
83	94	124	129	118

4.1 **Total number of classrooms and seminar halls**

Answer before DVV Verification : 37

Answer after DVV Verification : 14

4.2 **Total Expenditure excluding salary year-wise during last five years (INR in Lakhs)**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
83.55	233.66	195.04	266.04	268.65

Answer After DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
106.02	233.66	195.04	266.04	268.65

4.3 **Number of Computers**

Answer before DVV Verification : 364

Answer after DVV Verification : 292