

## INFRASTRUCTURE

In terms of Infrastructure, LEAD College of Management provides one of the best facilities in the Country. It is one of the few colleges in Kerala to upgrade its classrooms to facilitate teaching through modern tools, techniques and technology. Fully air-conditioned classrooms with Smart-boards, Wifi hotspots, Audio-Visual aids, Tutorial rooms, State of Art Seminar hall, Auditorium, Computer lab, Library, Hostel, Gymnasium, Playgrounds are available. Unique feature of these facilities is that they are never closed and are accessible 24 x7. LEAD college provides an eco-friendly environment to its students with latest green initiatives like Solar panels, Rainwater harvesting, paper recycling, and bio-waste treatment facilities in the campus. A quick overview is given below

Physical Infrastructure	
Academic/ Teaching learning / Research	<ul style="list-style-type: none"> <li>● Class rooms</li> <li>● Tutorial Rooms</li> <li>● Library / Reading room</li> </ul>
Administrative Infrastructure	<ul style="list-style-type: none"> <li>● Administrative office</li> <li>● Board room</li> <li>● Director's Office</li> <li>● Computer Center</li> <li>● Accounts Office</li> <li>● Central Store</li> </ul>
Academic/ Student Support Infrastructure	<ul style="list-style-type: none"> <li>● Faculty room</li> <li>● Placement Cell</li> <li>● Quality Assurance Cell</li> </ul>
Conference & Cultural Infrastructure	<ul style="list-style-type: none"> <li>● Auditorium</li> <li>● Seminar hall</li> </ul>
Green Infrastructure	<ul style="list-style-type: none"> <li>● Campus Lawn</li> <li>● Mini Zoo</li> </ul>

## Physical Infrastructure

	<ul style="list-style-type: none"><li>● Solid Waste treatment Unit</li></ul>
	<ul style="list-style-type: none"><li>● Solar power system</li></ul>
	<ul style="list-style-type: none"><li>● Rain Water Harvesting</li></ul>
	<ul style="list-style-type: none"><li>● Vegetable farm</li></ul>
	<ul style="list-style-type: none"><li>● Fish Farm</li></ul>
Health Infrastructure	<ul style="list-style-type: none"><li>● Gymnasium / Fitness center</li></ul>
	<ul style="list-style-type: none"><li>● Medical / Basic Health</li></ul>
	<ul style="list-style-type: none"><li>● Sick / Recuperation room</li></ul>
Residential Infrastructure	<ul style="list-style-type: none"><li>● Boys Hostel</li></ul>
	<ul style="list-style-type: none"><li>● Girls Hostel</li></ul>
	<ul style="list-style-type: none"><li>● Faculty Hostel</li></ul>
	<ul style="list-style-type: none"><li>● Guest rooms</li></ul>
	<ul style="list-style-type: none"><li>● Dormitory Accommodation</li></ul>
Sports Infrastructure	<ul style="list-style-type: none"><li>● Football, Cricket, ground</li></ul>
	<ul style="list-style-type: none"><li>● Badminton court</li></ul>
	<ul style="list-style-type: none"><li>● Volley Ball Court</li></ul>
	<ul style="list-style-type: none"><li>● Indoor games facility</li></ul>
	<ul style="list-style-type: none"><li>● Swimming Pool</li></ul>
Student Recreation Infrastructure	<ul style="list-style-type: none"><li>● Canteen</li></ul>
	<ul style="list-style-type: none"><li>● Food Center</li></ul>
	<ul style="list-style-type: none"><li>● Student Hangout</li></ul>
<b>IT Infrastructure</b>	
Physical IT infrastructure	<ul style="list-style-type: none"><li>● Computer lab</li></ul>

Physical Infrastructure	
	<ul style="list-style-type: none"> <li>• Wi-Fi Network</li> </ul>
	<ul style="list-style-type: none"> <li>• Digital Studio</li> </ul>
	<ul style="list-style-type: none"> <li>• LCD projectors</li> </ul>
	<ul style="list-style-type: none"> <li>• Desktop / Laptop</li> </ul>
	<ul style="list-style-type: none"> <li>• Audio / Visual equipment</li> </ul>
Virtual Infrastructure	<ul style="list-style-type: none"> <li>• Legal Software</li> </ul>
	<ul style="list-style-type: none"> <li>• Open Source Software</li> </ul>
	<ul style="list-style-type: none"> <li>• Video conferencing Software ( ZOOM)</li> </ul>
	<ul style="list-style-type: none"> <li>• Virtual Classrooms</li> </ul>

### Overview of LEAD Infrastructure

#### Classrooms & Learning facilities

Table 8.1

Requirement and Availability of Classroom and Learning facility

Sl No.	Type of Learning Facility	Number		Carpet Area in Sq. Meters / room	
		Required per norms	as Available AICTE	Required per norms	as Available AICTE
<b>Instructional Area</b>					
1	Classrooms	6	10	66	75
2	Tutorial rooms	3	4	33	35
3	Computer Lab	1	1	150	160
4	Seminar Hall	1	1	132	160
6	Reading room	1	1	100	112

SL No	Type of Learning facility	Number	Facilities available
1	Classroom	10	1. LCD projector 2. Wi-Fi connection. 3. High Speed Internet access
2	Tutorial rooms	4	a. BSNL- 60 Mbps Leased line b. BSNL- 40 Mbps National Knowledge Network c. BSNL- 200 Mbps FTTH x 2 d. Rail wire – 200 Mbls FTTH x 1
3	Computer Lab	1	4. Access to Learning Management system (Linways) 5. Desktop Computers
4	Language Lab	1	6. Audio System. 7. White boards. 8. Notice Boards. 9. Cushioned Seat 10. Access to 13 Legal and 13 Open source Application software, Microsoft licensed OS and Office Suite. 11. Language Lab software.
5	Library cum reading room	1	Reading desk, Computers with internet access and e-learning facilities, Books, Periodicals, Journals, News Papers.

#### *Facilities available in learning centers*

There is adequate availability of well-equipped classrooms and other e-learning facilities, as detailed above, in the campus. All classrooms are air-conditioned and equipped with all the modern equipment used to facilities teaching. A unique initiative to facilitate and motivate students to learn at their convenience is the “Open door” Policy: The door to all and any facility is always open. Access to all the facilities is 24x7x365. Even the access to use library and its facilities is 24 hours a day.

#### **E Learning, Lab based self-learning and Online Learning**

Apart from the physical infrastructure, LEAD College has installed Language lab and Analytics lab. Institute has subscribed to a host of Online Research Databases, E-books, and Digital platforms. The Classroom management is exclusively done on the Learning Management system (LMS), called “LINWAYS”, described below. LEAD College of Management, follows the philosophy of Outcome Based Education (OBE) and strictly monitors the effectiveness of teaching-learning process. All the Course Outcome, Program outcome attainment level calculations are automated and are managed through “LINWAYS”. All the student records, Academic reports, Audit reports etc. are maintained in highly secured Cloud based data storage facilities with 24 hours access across the globe. A detailed description of the learning management system is given in Section 8.4, Learning Management System.

In order to facilitate the Online Remote learning the institute has set up video conferencing facilities with large display monitors and microphones. The institute has also installed a ZOOM platform in which more than 500 participants can login and attend seminars, workshops or events online. The institute has also set up facilities to record classroom activities and video recording studios. These video recording studios enable the faculty to create content for their Asynchronous offline teaching. These videos, facilitate flipped Classroom learning are made available in the College digital repository accessible to the students and faculty all the time

#### **Library**

LEAD college has a well-structured and well-resourced physical and digital repository in its Library. One of the unique features in the Library is its Open access. The library is essentially unmanned and students can walk in at any time choose the books they would like to read, carry it with them if they prefer to read in their hostel and return them responsibly after use. The library also has printers, high-speed internet connections through Wi-Fi.

The details of resources available for use by the students are as follows

*Table 8.2  
Availability of Library Resources*

Type of Library Resource	Availability
Books	6968
International Journals	5
National Journals	18
E- Journal	JGate
E-book Titles / Volumes	1452 / 2325
References	Dictionaries, Encyclopedias, Year books

Type of Library Resource	Availability
Seating capacity	100
Number of PCs	4
Reprographic Facility	Yes ( 1 high speed printers)
High speed Internet & Wifi facility	Yes

### Initiatives to motivate reading and library usage

The faculty and the student recommendation play an important role in the decisions to purchase of titles or subscription to Journals and periodicals. The participation of the students in purchasing titles for the library plays an important role in promoting usage of Library among the students. Students generally prefer reading in informal settings and to facilitate that they are given the freedom to carry their reading material anywhere they want, read it and return it after use. There are no restrictions on the using the books based on the number of books already in their names or with them. The institute has set aside an annual budgetary amount of Rs. 3,00,000 /- exclusively for purchase of books and journals. Apart from books and journal, specific Case studies, articles, case-lets, survey reports are procured based on the requirements indicated by the faculty, experts in the field or Visiting resources persons. The institute is presently planning the purchase of simulation software and Learning apps to facilitate experiential learning.

The library has subscribed access to Kindle and Magzter making over a million title and journal available to the students.

Apart from ensuring the availability of the books and adequate number of copies, the library also provides specialized services like

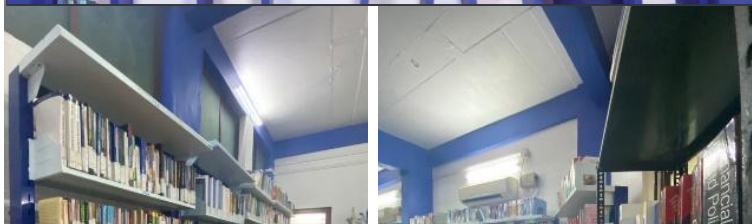
Provide bibliographic support for students and faculty for their research work.

Information search with J-gate and Delnet.

Newspaper clipping service, where important Newspaper clippings are scanned and mailed to the students and faculty.

Archiving the Best project works of students of previous batches and facilitating its availability to the students based on their topic of study.

Accessing and retrieving past University Question paper and their answer keys.



### *Different Views of the Library*

#### **IT Infrastructure**

Approaches to teaching and learning are fast evolving and the role of IT infrastructure increasingly is getting more and more important. The Covid-19 pandemic has seen a phenomenal shift towards the technology and accelerated technology enhancement in LEAD College of management. From traditional lectures classes to blended learnings and online platforms LEAD has laid a very strong IT infrastructure that supports this transition.

The IT infrastructure backbone of LEAD College of Management supports the following functionalities efficiently for the faculty the students and the Alumni

- Teleconferencing facility
- Video Conferencing facility
- Audio, Video TV Lessons.
- Intranet and E Mail distribution
- Smart Classrooms
- Network drives and Cloud computing
- Virtual Classrooms
- Discussion forums
- Cloud based Learning Management system (LINWAYS).

Components of IT infrastructure available in LEAD college of Management are detailed below

Type	Availability
Internet Bandwidth	60 Mbps Leased line – BSNL 40 Mbps – BSNL National Knowledge network 200 Mbps- FTTH x 2 nos.

	200 Mbps – RailWire – FTTH x INo.
ERP Software	Cloud based Linways learning management system.
Wi-Fi Hotspots	All classrooms, Hostel rooms, Canteen, Seminar room, Auditorium Library and Activity rooms have high speed Wifi Internet facility.
Virtual Classrooms	Google Class room,
Video Conferencing and Online classes platform	Zoom Videoconferencing with capacity to accommodate 500 participants.
Digital Video Recording studio	Digital Camera, Studio lights, Green Screen and Video streaming, editing and recording software. HD display screens, powerful Computers and Microphone with noise filtering facilities.

*Details of IT infrastructure at LEAD college of Management*

#### **8.4 Learning Management System**

LEAD college of Management uses Linways Learning Management system to help instructors to Create, Manage, Organize online Learning material and conduct online courses. ‘Linways’ is also used to monitor students’ progress, identify weak areas and provide support to rectify deficiencies.

##### LINWAYS Learning management system

Linways learning management system is a product of Linways Technologies Pvt Ltd. located at Kochi Kerala. It is a cloud based Academic management system. Some of major tasks performed in Linways Learning Management system are

1. Course planning, Session planning.
2. Marking the student attendance.
3. Generating question papers for internal Exams,
4. Outcome based Education,OBE implementation
  - a. Recording Course outcomes and program outcomes
  - b. Mapping Question to course outcomes
  - c. Entering the student marks and archiving the information batch type
  - d. Determining the Course outcome attainment levels based on the Assessment tools and configuration.
  - e. Generating NBA, NAAC reports.



- f. Generating reports to review quality standards and take corrective action in case of deviation.
5. Maintain digital repository of data, information, digital content, Audit reports for use in the Teaching- Learning process and improving its efficiencies.
6. Automation of reports required by the University of Calicut with facility to auto normalize marks and present the internal marks in the University prescribed format.
7. Manage Student leave and academic Progression.
8. Course material distribution, Assignment submission and evaluation
9. Conduct online examinations, Quizzes and MCQs.
10. Discussion forums
11. Course file creation and storage.
12. Examination hall and seating arrangement management

A link to the detailed features of Linways in their company website is given below

<https://linways.com/pages/online-learning-management-platform-for-higher-education/>

## **Hostel**

**LEAD College of Management provides Hostel facility for Boys and girls. Being a fully residential program all the students and the faculty are accommodated in the Institution campus itself. There are 80 rooms for boys and 40 rooms for girls. Hostel rooms are on triple-sharing basis furnished with independent cots, comfortable mattress, study table, chairs and wardrobe for its occupants.**



*Figure 8.6*  
*View of a Hostel Room*

The Hostel has a well-equipped Gymnasium, Recreation facility , Indoor games, washing machines all of which are accessible 24 x 7. A vehicle is provided exclusively for the usage of the hostellers to cater to any emergency need for transportation. The institute boasts of a majestic 10 m. X 13 m. long Swimming pool to let the students and faculty cool off the heat and stress of academics.

The Institution has an operational Canteen with a seating capacity of 200 students. A team of students supervised by a Faculty manages the Canteen to ensure delicious food to the Hostel inmates. Students pick up valuable Lessons in Inventory management, Waste reduction, resource allocation, Grievance handling and complaint management while running the canteen operations. Canteen caters to both vegetarians and non-vegetarians and the unique feature of the food that is served in the canteen is that the vegetables, the fish used in cooking are all partly sourced from farms managed by the students of the institute.



GYMNASIUM

HOSTEL AISLE

SWIMMING POOL



EFFLUENT TREATMENT PLANT



SOLAR POWER GENERATION



CAPTIVE FISH FARMING





*Gymnasium, Hostel Aisle, Swimming Pool, ETP, Solar power panels, Captive Fish Farm*

### **Sports Facility**

LEAD College of Management gives adequate importance to sports to let students imbibe the spirit of winning, teamwork and maintain fitness. The Campus has both Indoor and Outdoor sports facility. Outdoor games include Cricket, Football. Indoor facilities include facilities for Volleyball, Basketball, and Throw ball, Badminton, Table Tennis, Chess and Carroms.

The institute also organizes various sports competitions and events for the students as well as for the public. These events are organized by the students themselves thus deriving twin benefit of putting their sport skills to test with the best in the locality and honing their organization skills.

#### **Indoor Sports Facility**

The institute has an indoor sports complex where the following games and tournaments are held

1. Swimming
2. Volley ball court
3. Basketball court
4. Badminton court
5. Table tennis
6. Chess
7. Carroms

#### **Outdoor Sports Facility**

The outdoor sports facilities of the Institute are

1. Football turf
2. Cricket
3. Volley ball
4. Throw ball
5. Facilities for adventure sports



*View of the Indoor and Outdoor facility*

**Medical Facility**

LEAD College of Management has a well-equipped Medical Room to cater to the needs of the students and the staff of the Institute.

Visiting Doctor - A qualified doctor visits the campus Medical room every day and offers consultation. The treatment is fully free of cost. The Medical room is equipped for first aid and minor medical services. This doctor is also available on call in case his service is needed for an emergency

Tie up with Hospital - The institute has tie-up with one of the leading Hospitals in Palakkad, to quickly take care of any medical emergency without any wastage of time on Admission and treatment formalities.

Medical Vehicle - A vehicle is exclusively kept stand-by in the college campus with a driver for ferrying the sick who need quick hospitalization or for the emergency purchase of drugs or medicines.

Sick room-A sick room facility with full time attendant is available which helps the sick to recuperate comfortably until they become healthy.

Insurance- The institute provides Insurance cover to the students during the 2 years of study.

Free Vaccination - Preventive vaccinations are provided by the college free of cost to the students and the staff. The institution had arranged for administering Free Covid -19 vaccinations for all the students and Staff.

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