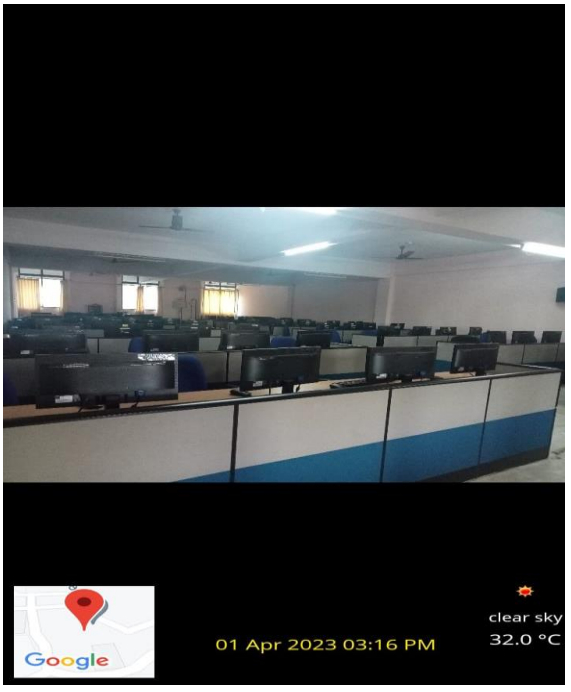
Laboratory Details

Laboratory Room No	Name	System Requirements	Foto
Room no - 120	• Advance programming Laboratory • Data Base Management System Laboratory • Data Structure & Algorithm Laboratory	No of system: 58 120 system config:50s/m Processor :intel dual core 12th generation Ram:DDR 4 Storage :Nvme ssd 256gb Keyboard :Dell Mouse :Dell Monitor :20inch	
Room no - 318	• System Software Laboratory • Computer Network Laboratory • Operating System Laboratory • System Software Laboratory Compiler Laboratory	No of system: 40 Processor :intel pentium dual core 2.80 ghz Ram:2 GB DDR3 1063 Hard disk : 320 GB Keyboard : Dell Mouse : Dell Monitor : Acer 20 Hdmi	

Room no - 416	• Object oriented programming Laboratory • Data Structure & Algorithm Laboratory	No of system: 40 Processor : I Ball 3.0 GHz Ram:4 GB Hard disk : 500 GB Keyboard : I Ball, wipro Mouse :Wipro, hcl Monitor :I Ball,. Hcl	

ADDITIONAL FACILITIES

SDPK (Skill Delivery Platform of Kerala) LABORATORY

Origin of thought:

Based on a meeting held at CET, Trivandrum, Mrs. Usha Titus, IAS, principal secretary directed to start new advanced skill development centres in engineering colleges partnering with High Education department, ASAP,K-DISK, ICT Academy and IITMK. On 27th Feb '2019 Hi-Tech Skill Delivery Platform of Kerala was inaugurated through videoconferencing in room no :417 by Hon. Chief Minister Shri. Pinarayi Vijayan from ICFOSS office, Greenfield Stadium, Trivandrum, at 11:45AM. **Our college is among first 20 KTU colleges in Kerala,** to set up Skill Delivery Platform of Kerala [SDPK] , a project driven by Kerala State IT Infrastructure Ltd. SDPK will rely on Telepresence video conferencing network to enhance learning opportunities for students. Telepresence uses high-definition equipment to replicate face-to-face communication virtually. The interactive system uses a video wall incorporating multiple camera, touch enabled screen, directional speakers, microphones and monitors to create life-like visual and audio clarity. SDPK Project is in association with Kerala State IT infrastructure Limited (KSITL), Kerala IT Mission & ICT Academy.

Facilities available:

1. Big Data and Machine Learning
2. Artificial Intelligence and Deep Learning
3. Block Chain Methodologies and Data Science
4. Quantum Computing
5. Cloud Development
6. Machine Learning with Python Training
7. Six Sigma Green Training

Specifications of main components:

- One Telepresence kit (2 cameras, DVR Box, Tablet)– CISCO CTS-SX80-IPST60-K9
- Four CISCO mikes – VCPA-CISCO-CTS-MIC-CLNG-G2
- LED TV - 65" LG UHD 4K TV

- HDMI cables isramer c mhm/mhms
- Network Rack – NWRCK VAL RAU 550 WX4500D-4U
- Four speakers – Sonodyne- PM101WM

IIT BOMBAY Remote Centre

In June-July 2012, IIT Bombay created history by conducting a mega-workshop on Introduction to Research Methodologies, planned to train 10,000 teachers at hundreds of Remote centers spread across the country. The workshop was conducted in the distance mode, using A-VIEW software and Internet, as part of the National Mission on Education through ICT (MHRD, Govt. of India). The Faculty members from the department of CSE actively participated in the event "Workshop on R programming" along with the other faculty members of the departments of the college. More than 100 engineering colleges participated in this event from different parts of India.

Activities:

1. Empowerment of Teachers

   The "Teach 1000 Teachers" programme was initiated in 2009, to enhance the teaching skills of engineering faculty. Participants attend workshops conducted by expert faculty, in multiple remote centers. Lectures are delivered at IIT Bombay, using multi-way visual interaction. Tutorials and labs are conducted at remote centers by a local senior faculty, trained earlier by the expert. Using ICT to scale up participation, and retaining the small-group environment of labs, is established as an effective methodology

2. Audio-Video Production

   Workshops, seminars and courses are recorded in high-quality audio-visual formats and released in Open Source along with full course materials under Creative Commons License by Attribution 2.5 India. The recorded courseware of the lectures would be available in multiple audio-visual formats for download and distribution at cost, to any individual/institution after completing the post production work.

3. Clicker: Student Response System (SRS) for Classroom

   The Clicker, a handheld device provided to each student in a class, improves student participation and interaction in a classroom. It provides real time feedback to the instructor, for gauging the level of understanding of the students, through instant quizzes. This enhances the effectiveness of the lectures. A version of the clicker incorporates a microphone, to permit voice communication in a large class.

4. Web Portal

   This is an interactive web portal which incorporates a content management system. It is created using a framework based on Joomla, and provides a collaborative platform to learners. This will host the relevant Open Source e-contents, which will be continuously expanded through contributions by users. The portal is deployed on a mini-cloud, permitting access to thousands of concurrent learners

5. Aakash Development

   Aakash project at Indian Institute of Technology Bombay, is dedicated to the development of useful applications and content for use with Aakash. It attempts to empower teachers, by using a unique blend of technology, e-content, and an innovative pedagogy. While the main focus of this project is on engineering education, it is proposed to use the creative talent of these professional students and teachers, to develop applications and content for all levels of education, including school education, in Indian languages