

KURIAKOSE GREGORIOS COLLEGE PAMPADY



Website: www.kgcollege.ac.in

Phone: 0481 2505212

Email: mail@kgcollege.ac.in



2.3.1. STUDENT CENTRIC METHODS OF TEACHING



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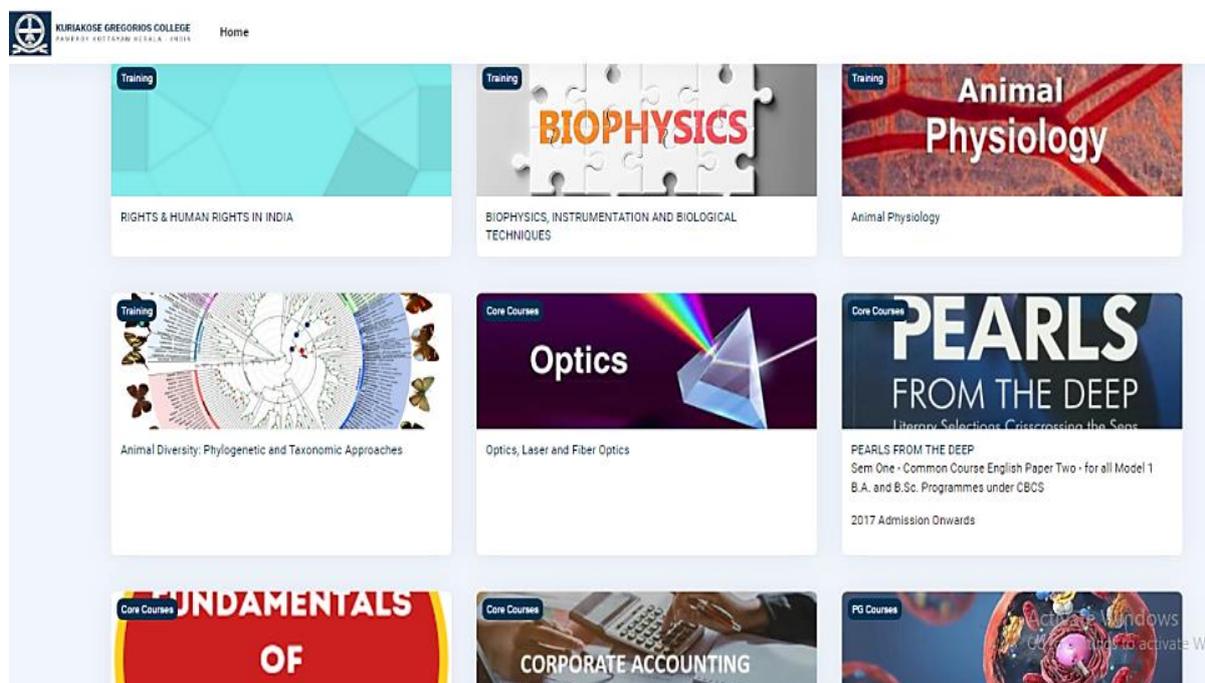


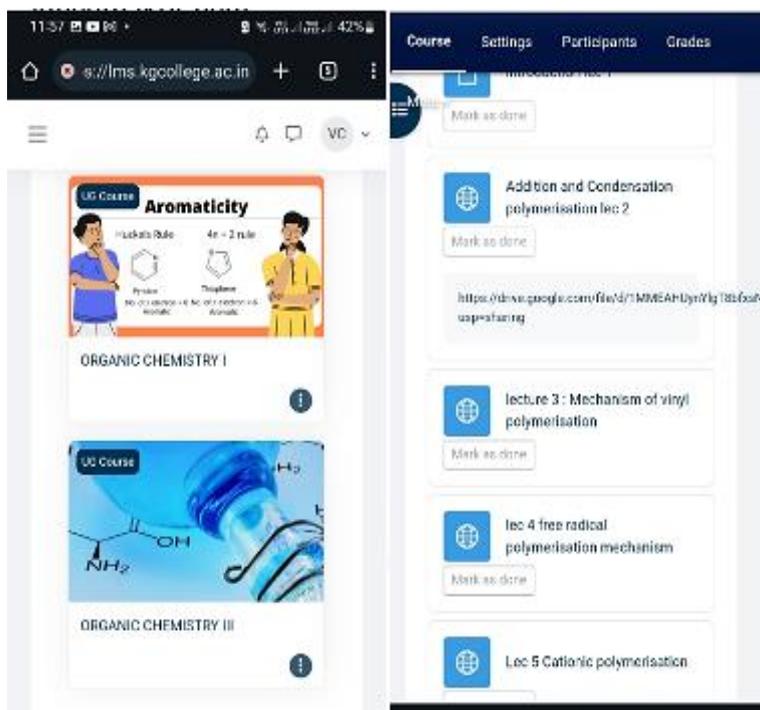
ICT enabled learning methods

The education system has undergone a substantial transformation with the integration of Information and Communication Technology (ICT), offering a multitude of tools and online resources to improve the teaching and learning process. Our approach involves a blended teaching-learning strategy that combines both online and offline methods, with each mode complementing the other. We use ICT to support, enhance, and streamline the delivery of information.

1. Learning Management System (LMS)

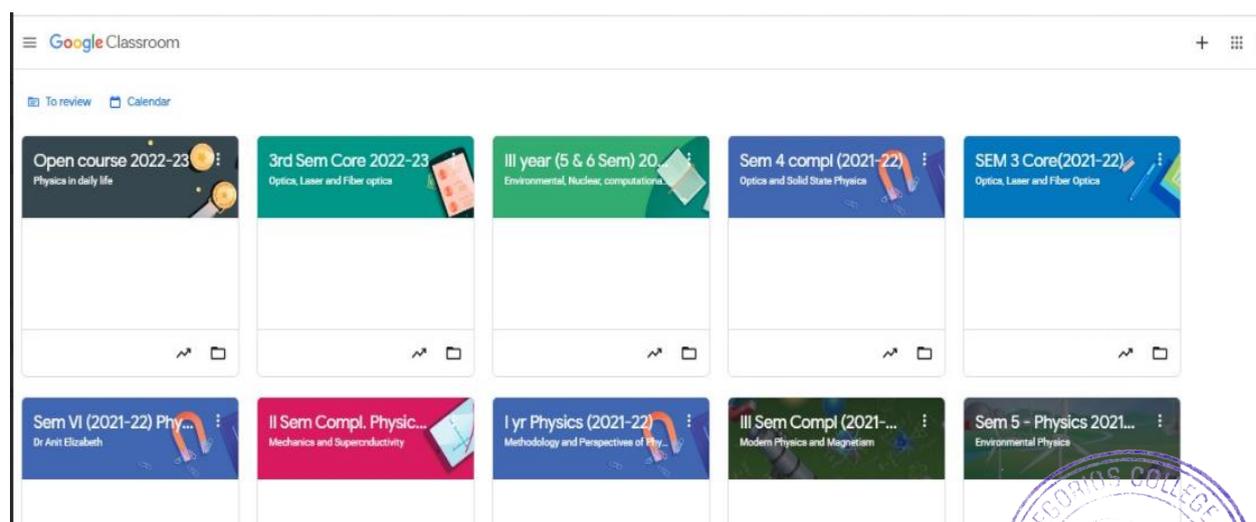
The institution has a customized Moodle LMS platform for curriculum delivery. Teachers are given training to use the platform. Recorded classes, notes, assignments are given through Moodle.

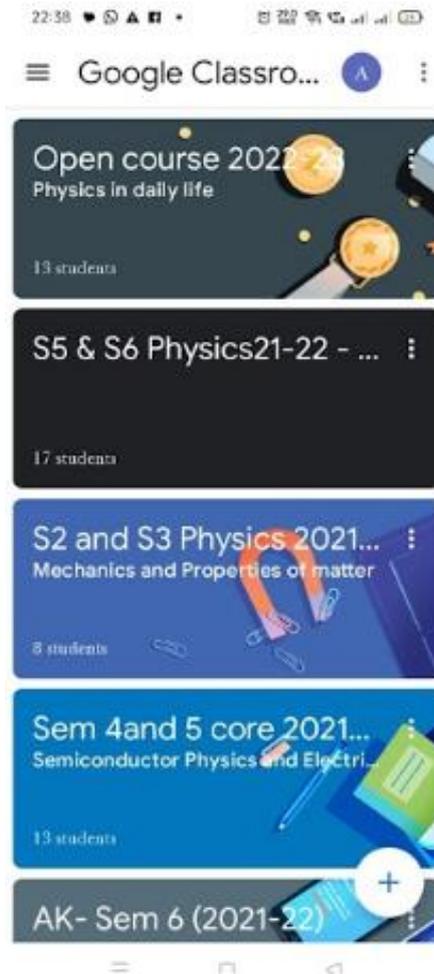




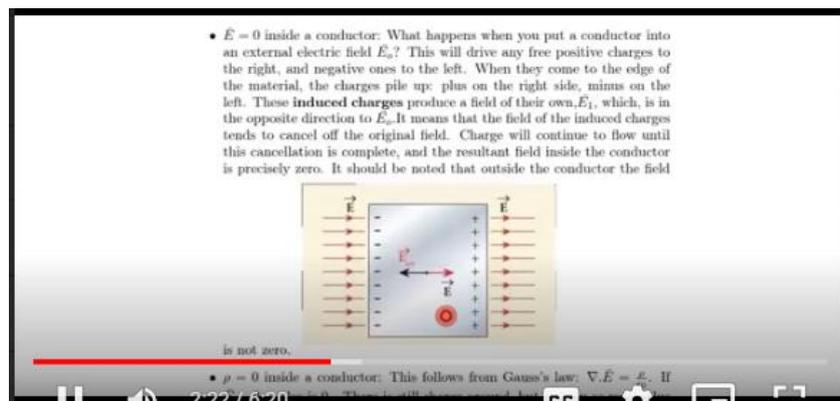
2. Google Classrooms

During Covid 19 pandemic period, the teaching learning process was through online platforms. Recorded classes, assignments, test papers, etc. were conducted through Google Classroom. Class groups were formed on WhatsApp and Telegram platforms also for effective communication.



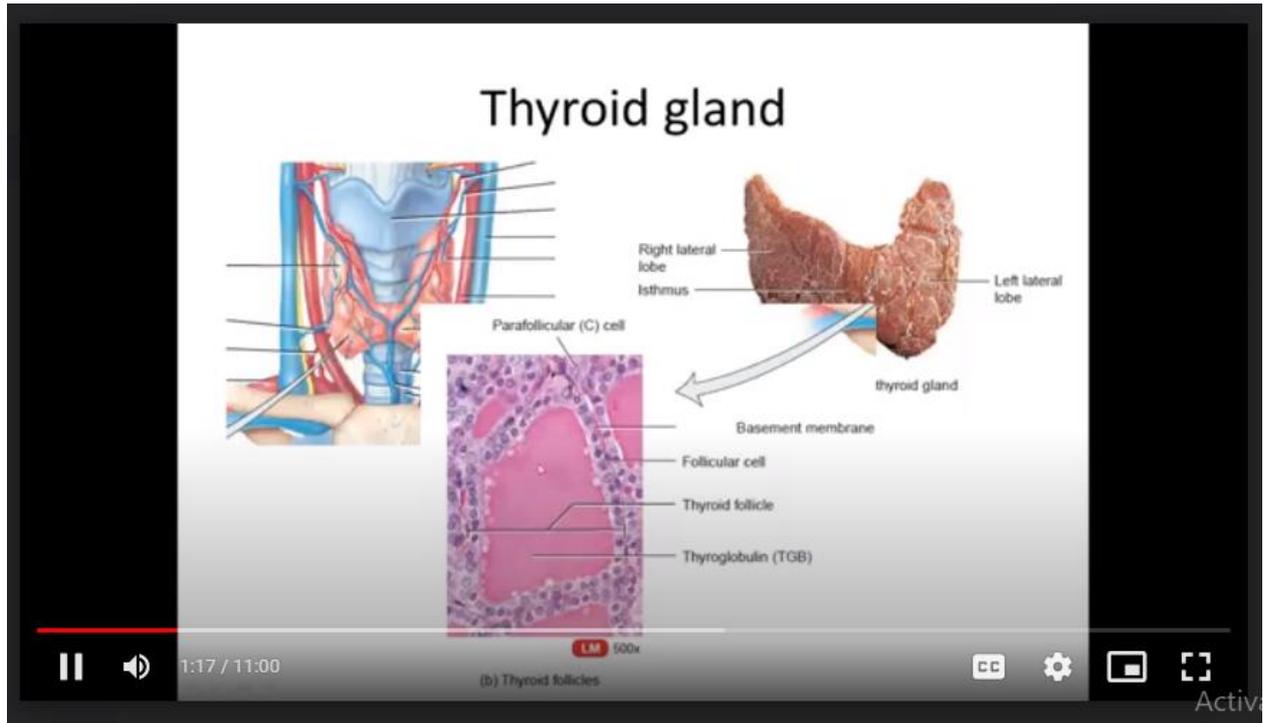


Recorded classes are unloaded by the teachers in Google Classroom and also on the YouTube channel and the students can access it at any time Online.

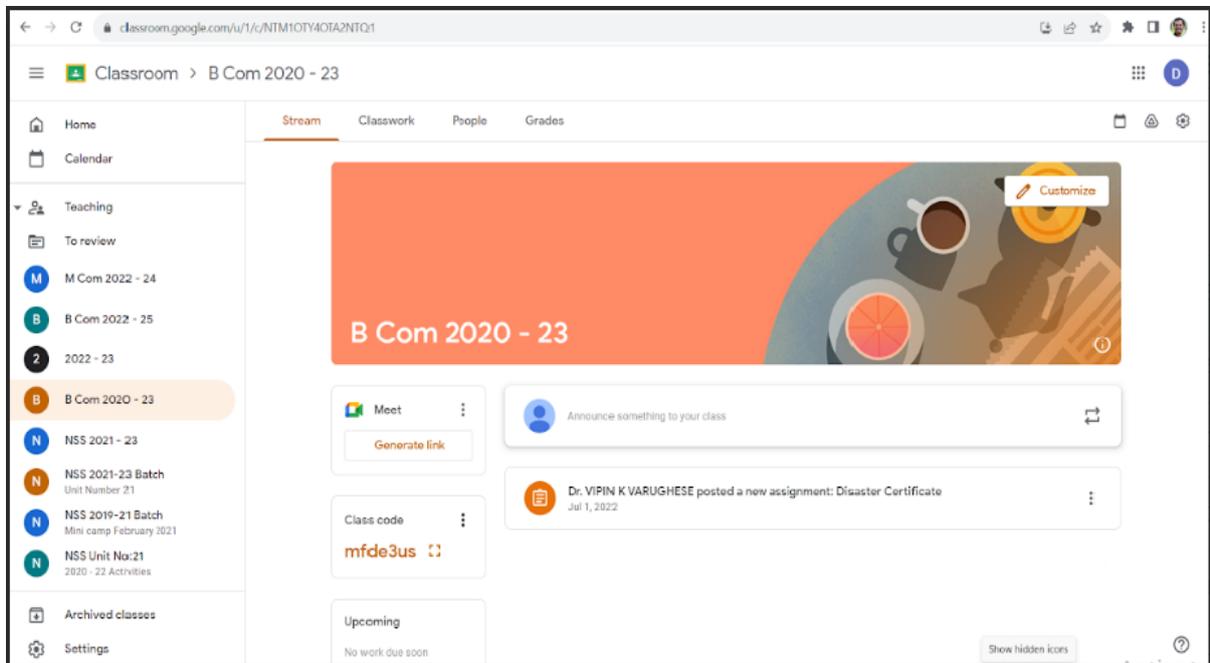


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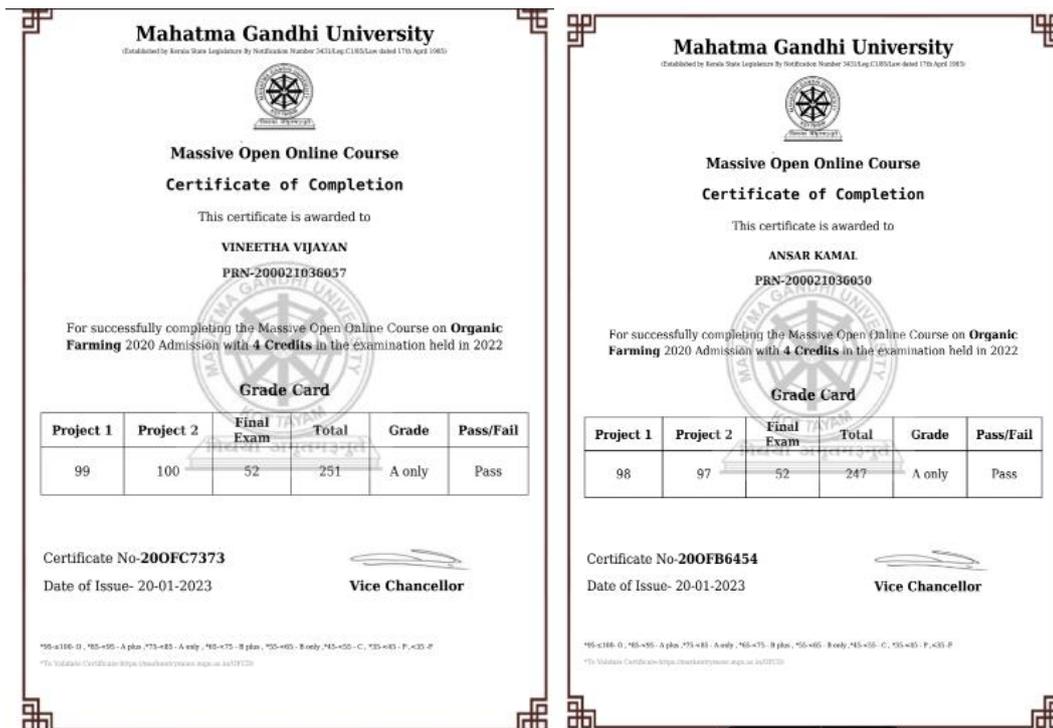


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3. Massive Open Online Course (MOOC)

MOOCs is a platform that host courses from universities and institutions around the world, covering diverse topics such as science, technology, humanities, business, and more. It provides a flexible learning environment with video lectures, quizzes, forums, and other interactive elements. Students are encouraged to join the courses to acquire and update their knowledge.



4. SWAYAM

SWAYAM (Study Webs of Active Learning for Young Aspiring Minds) is an initiative by the Government of India to provide high-quality education and learning resources to anyone, anywhere, and at any time. SWAYAM offers online courses and is part of the broader digital India and Skill India campaigns. Our college has a registered SWAYAM Chapter.





5. edunext.io/Open edX

It is a platform for online learning and course delivery. Department of Commerce introduced Courses in this platform during the Covid pandemic period

<https://mcomaccounting.edunext.io/courses/course->

[v1:mcomaccounting+CM010201+sem2/about](https://mcomaccounting.edunext.io/courses/course-v1:mcomaccounting+CM010201+sem2/about)

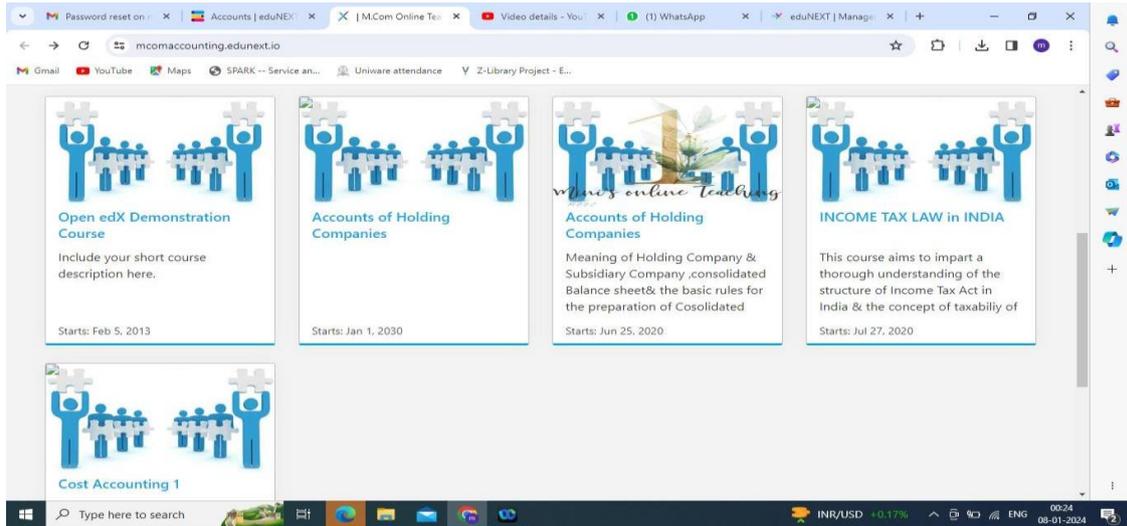
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Classes were also uploaded in Youtube channels. Some youtube channel links are

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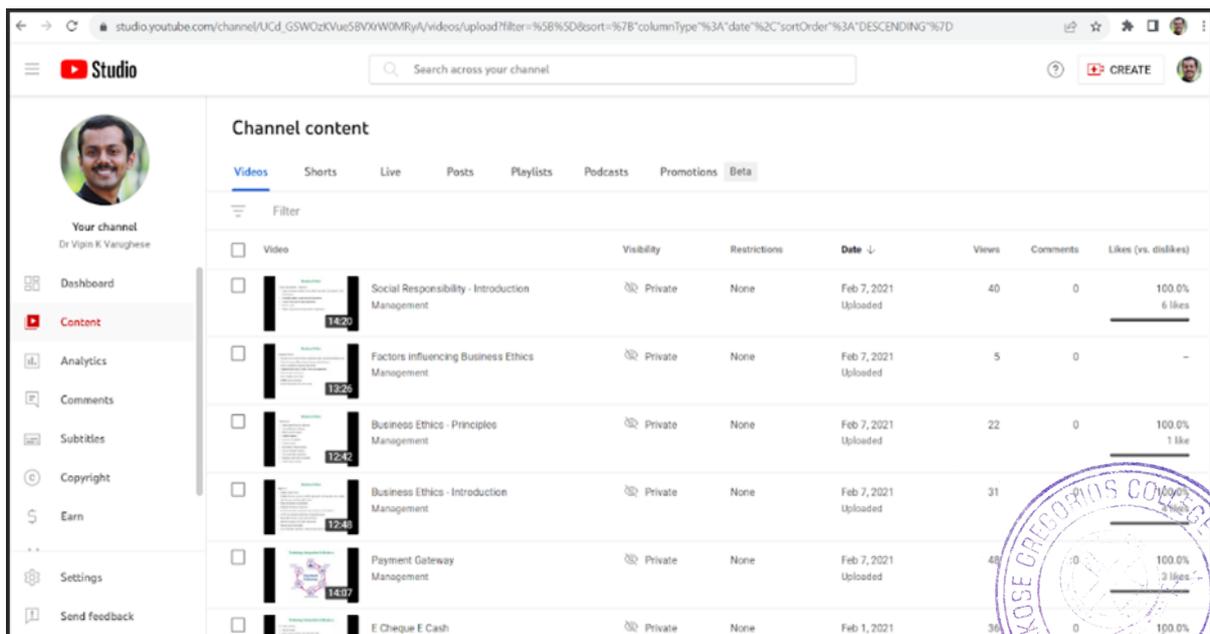
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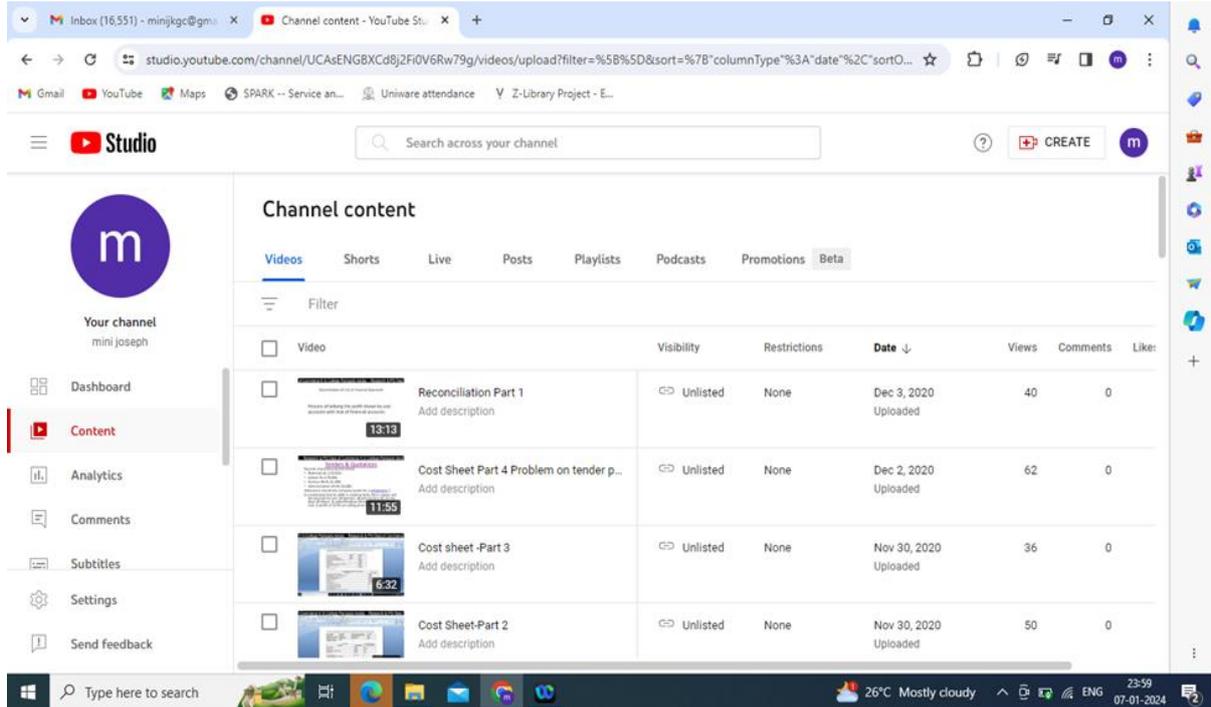
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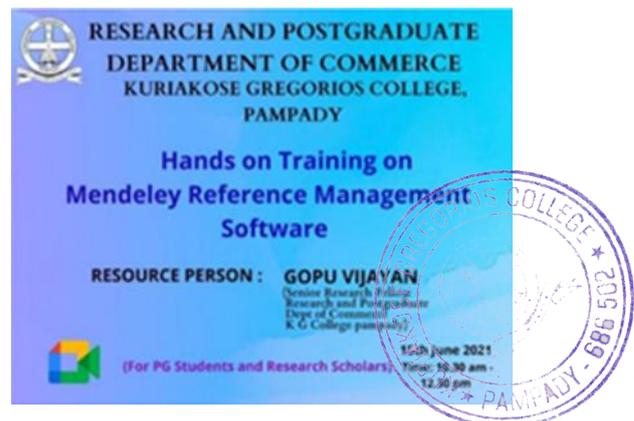
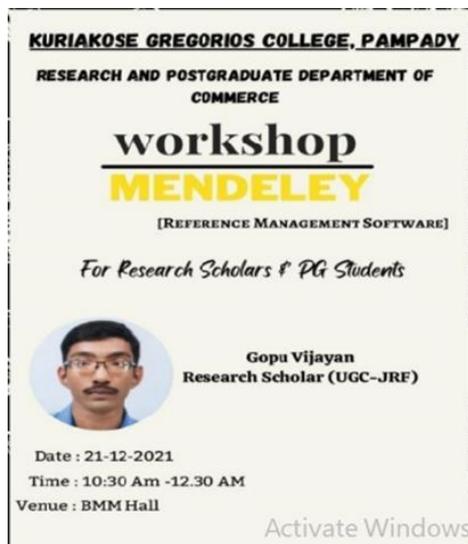
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6. Software aided learning strategies

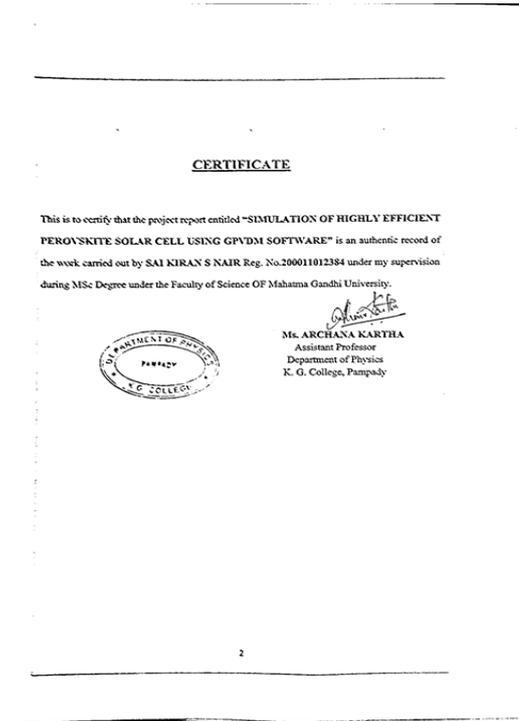
Software-aided learning strategies encompass the integration of various software applications and tools to enhance the educational experience. These methods support the technology to facilitate interactive and personalized learning, often incorporating platforms such as educational software, simulations, virtual labs, and online collaboration tools. We organize training on certain software applications to foster the learning process.





7. Projects using SPSS, SCAPS, GPVDM

Project work is an essential part of the undergraduate (UG) and postgraduate (PG) curricula at our college. We promote the application of software tools for project execution. Commonly utilized tools include SPSS, SCAPS, and GPVDM. This emphasis fosters practical software familiarization and enhances students' learning experiences.



K.G. COLLEGE, PAMPADY
DEPARTMENT OF PHYSICS (SELF FINANCING)



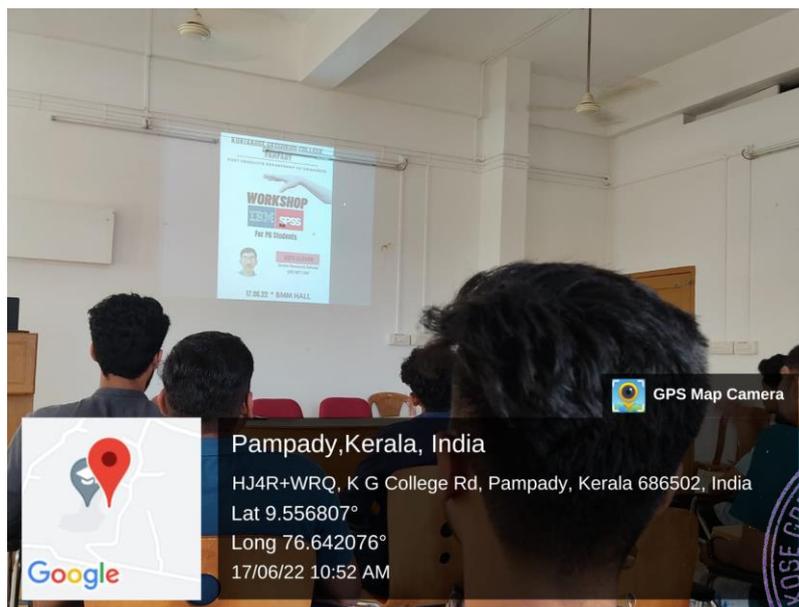
CERTIFICATE

This is to certify that the project work entitled "Review on CdTe solar cell and Simulation of CdTe /CdS Heterostructure using SCAPS" submitted by Sibya Sara Cherian, Reg. No: 200011012385 to the Mahatma Gandhi University, Kottayam in partial fulfillment of the Degree of Master of Science in Physics during 2020-2022 is a bonafide record of the work undertaken under the supervision and guidance of Ms.Nishiitha P Mathew , Department of Physics, K G College, Pampady, Kottayam.

Examiners:

- 1. Anu Elizabeth Joseph
 - 2. Emily M. George
- Ms. Anu Elizabeth Joseph
Head of the Department
K.G. College
Pampady

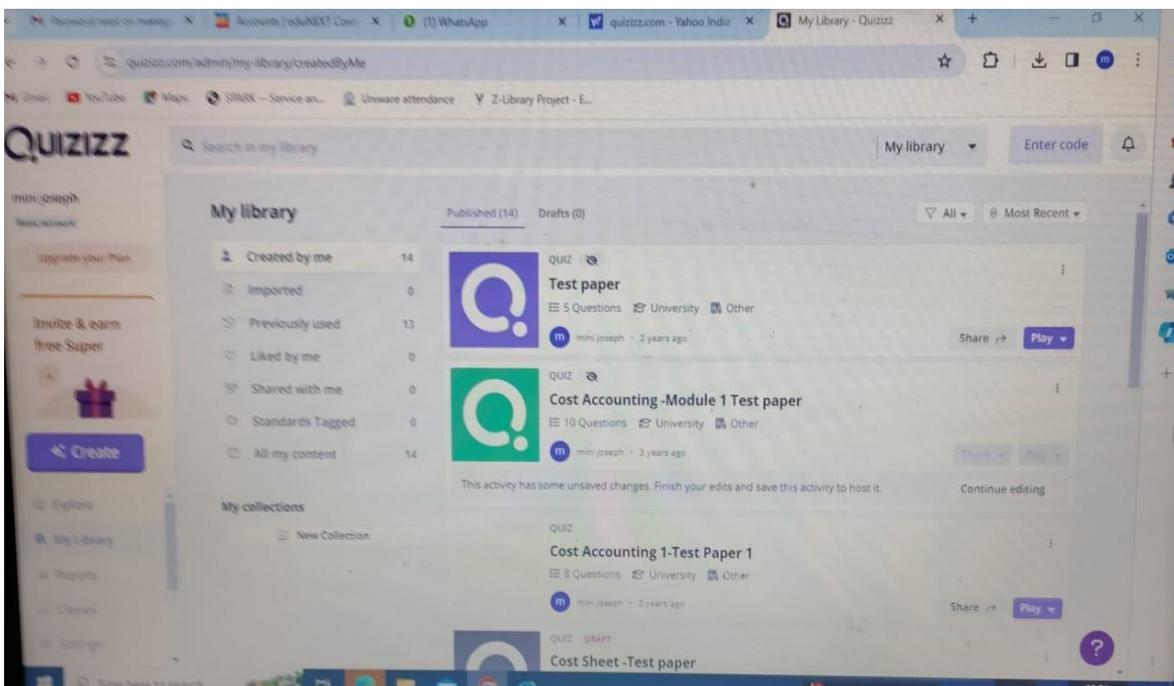
Place: Pampady
Date: 29/09/22



8. Quizizz

Quizizz is an engaging and interactive online platform designed for educational purposes, offering teachers a versatile tool for creating fun and effective quizzes to assess and reinforce students' understanding of various subjects. Teachers can utilize Quizizz to track individual student progress, identify areas of strength and weakness, and tailor their teaching strategies accordingly, making it a valuable resource for formative assessment and ongoing classroom engagement.

<https://quizizz.com/admin/quiz/613716e41424b9001ed9b4b1?searchLocale=>

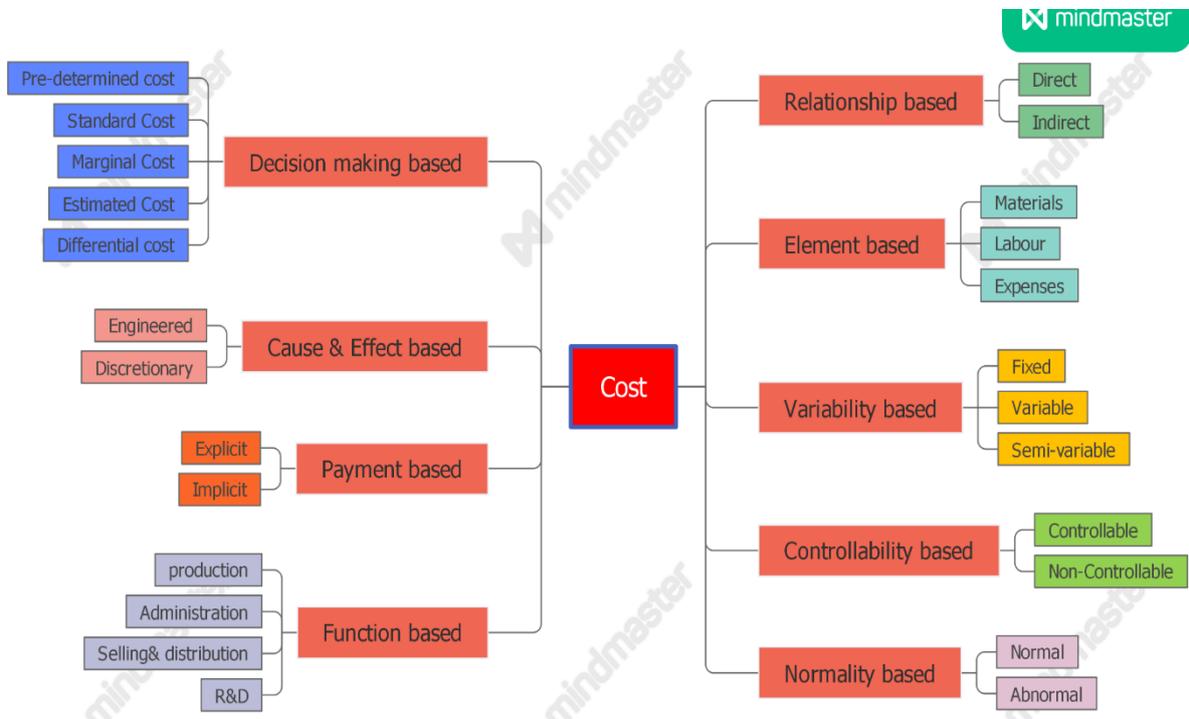


9. Mind Master

Mind Master is a mind mapping tool that enables users to visually organize ideas and information, fostering creativity and improved understanding. With intuitive features and customizable templates, Mind Master serves as a versatile tool for brainstorming, project planning, and knowledge structuring. Its user-friendly interface and collaborative capabilities



make it an effective resource for individuals and teams seeking efficient ways to map out and visualize complex concepts.



10. Kahoot

Kahoot is an engaging and interactive learning platform used in classrooms. It allows teachers to create quizzes, surveys, and discussions that students can participate in using their devices. Kahoot promotes active learning, collaboration, and gamification, making learning fun and effective.

11. Hosting Online Webinars, Workshops, Training Sessions

Online expert talk, workshops, training sessions were conducted to nurture the knowledge of students especially during the pandemic period.





KURIAKOSE GREGORIOS COLLEGE PAMPADY
 Department of Chemistry
 Presents
Association Inauguration & Webinar
 3 July 2021
 10 : 30 A M

Chief Guest
Dr. Tomlal Jose E
 Associate Professor & Head
 Department of Chemistry
 St. Berchmans College
 Changanassery

Webinar
 Structure - Property relationship of materials




KURIAKOSE GREGORIOS COLLEGE
 Pampady

-- CHEMISTRY ASSOCIATION --

WEBINAR ON THE TOPIC:
Opportunities in higher education for science students

Saturday 10:30 am
 Aug 28th

google meet

Resource Person
Dr. T.V. Vimalkumar
 Assistant Professor & Research Guide
 Dept of Physics, St. Thomas College, Thrissur
 District Coordinator
 Energy Management Centre, Govt of Kerala

click to register

Only 100 can accommodate



National Webinar
 on
Nano - Materials for 21st Century

Organized by
 Department of Chemistry
 In Association with IQAC
 Kuriakose Gregorios College Pampady
 Affiliated to MG University
 Kottayam, Kerala

Resource Person

Dr. Laxman Singh
 Head & Assistant Professor
 RRS College
 (Pataliputra University)

Google Meet
 12 March 2022
 5 PM




KURIAKOSE GREGORIOS COLLEGE
 PAMPADY

POST GRADUATE
 DEPARTMENT OF ZOOLOGY

Presents

NATIONAL SCIENCE DAY

National level Webinar
 TOPIC: SMALL SCALE FISH FARMING - PROBLEMS AND PROSPECTS

Platform : Google Meet

Date : 28 February 2022
 Day : MONDAY
 Time : 11 AM

DR. B SANTHOSH
 Principal Scientist, Vijnanan Research
 Center of CMFRI, Vizhianjanam,
 Thiruvananthapuram - 695329

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aneeshpm CuKerala is presenting

CENTRAL UNIVERSITY OF KERALA
കേരള കേന്ദ്രീയ വിദ്യാലയം

Semiconductors and Devices

Dr. P. M. Aneesh

Department of Physics
Central University of Kerala
Kasaragod, Kerala

Email: aneeshpm@cukerala.ac.in

30/07/2021 @ K G College Pampady

People

In call

- Dr. ANIT ELIZABETH (You)
- Adarsh S Naick
- ADHITHYA RAJAN
- aneeshpm CuKerala
- aneeshpm CuKerala Presentation
- ANIJA P.A
- ANSAR KAMAL
- APARNA P
- ARAVIND M

LAKSHMI N

ARCHANA KART...

RINSA MERIN ROY

VINEETHA VIJAY...

17 others

You

7:00

xoh-pzxw-tmp

Sreeja

Ananthu

Mahima

abhijith

You

Abin

56 others

About this call

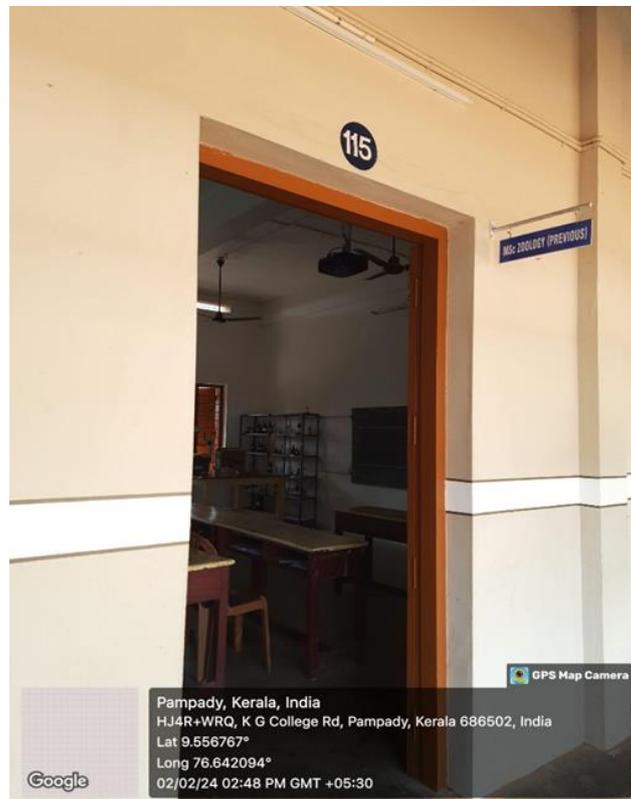
People Info Activities

- Josna Joseph
- Jubina Mary M...
- K G College
- KIRAN M
- MAHIMA S
- Meechal Susan...
- Mekha Sajan
- NANDHANA N...
- Nihara P Mathew
- NIKHA CHAND...
- NISHITHA P M...
- Preethimol T P
- Preethy Philin



12. ICT enabled Classrooms

Interactive boards are installed in all departments and the use of these boards enhances the learning process by allowing interactive lessons, multimedia content, and real-time annotation. In classrooms lacking interactive boards, LCD projectors are installed to facilitate presentations and video lectures.





13. ICT enabled Library

Information and Communication Technology (ICT) has revolutionized libraries, turning them into dynamic hubs of knowledge and innovation. This transformation includes the shift from traditional digital catalogs and databases to providing online access to a vast array of resources.

The major areas of ICT application in our library are:

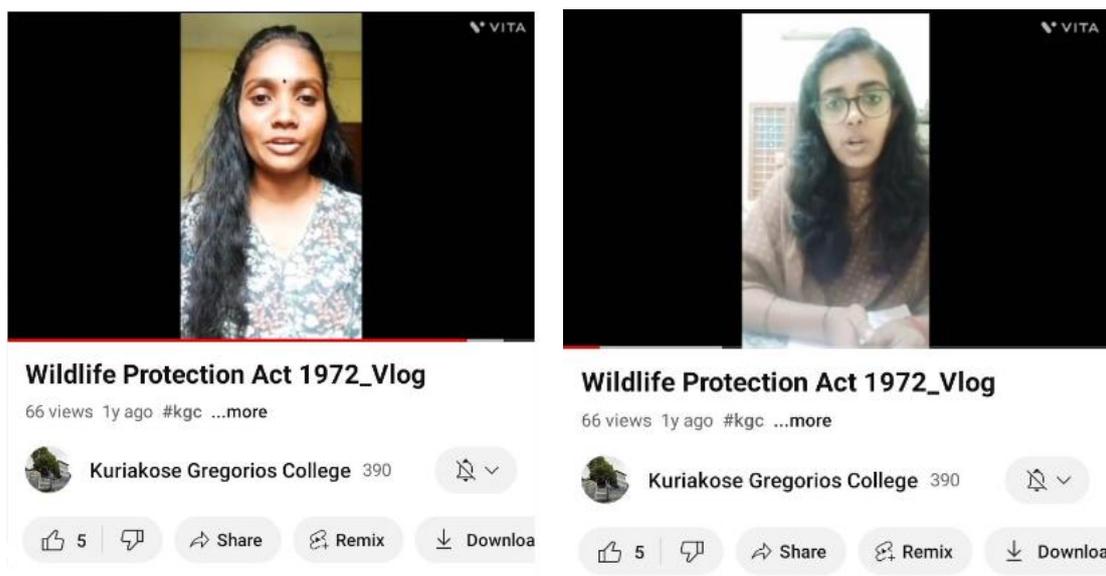
- **Library Management Software** – Our library is fully automated with the library management software KOHA (version- koha 22.05). They include modules for cataloging, circulation, acquisitions, and inventory management.
- **Online Public Access Catalogue (OPAC)** - Online Public Access Catalogues (OPACs) are digital platforms or interfaces that allow users to access and search the catalogue of a library's collection, including books, journals, audio-visual materials, and other resources.
- **Digital library service/Browsing facility** - Digital library services encompass a range of offerings that leverage technology to provide access to digital resources, facilitate information retrieval, and enhance user experiences.
- **Access to online databases** – Our library has a subscription to **NLIST** which provides access to lakhs of e- books, e-journals and other e resources to its clientele.
- **Access to e resources** – Library provides access to open access electronic journals, books, portals, course wares, newsletters, periodicals etc.
- **Reprographic services** – online based reprographic services are also enabled in our library.
- **E-gate entry** – entry and exit of users to the library is done through an electronic gate by scanning their college id.



14. E-content creation by students

Students are assigned to take a seminar on given topics and they are given the opportunity to manage the class with slide presentations. This helps them to get familiarized with ICT tools. Videos were created by the students on different topics and those were circulated in the class groups.



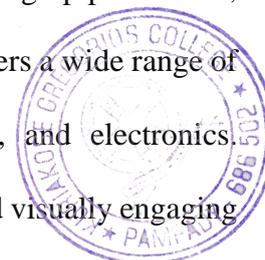


15. VESTA

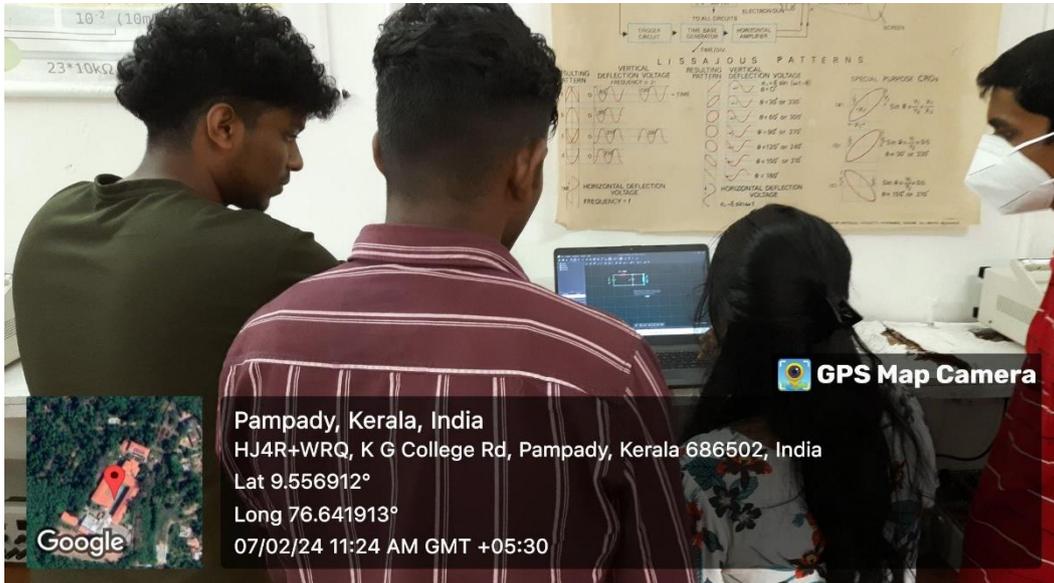
VESTA is a powerful 3D visualization program primarily used in Materials Science and related fields. It enables users to visualize and analyze crystal structures and their associated reciprocal lattice, molecular models, and electron/nuclear densities. It supports various file formats and provides tools for manipulation, measurement, and analysis of structural data. VESTA allows students to visualize crystal structures in 3D. This helps them understand the arrangement of atoms/molecules within different crystal lattices. Students can visualize reciprocal lattices, which are essential for understanding properties like electronic band structures and Brillouin zones.

16. SIMPHY

SIMPHY is a Physics Simulation software to set up a virtual Physics Lab which makes teaching highly interactive. SIMPHY provides tools for designing experiments, setting up parameters, and running simulations to observe the behavior of physical systems. It covers a wide range of topics in physics, including mechanics, electricity, magnetism, optics, and electronics. SIMPHY aims to enhance learning experiences by providing interactive and visually engaging



simulations that help users understand fundamental principles of physics through experimentation and exploration.



17. PhysioEx

An online lab experience called PhysioEx 10.0: Laboratory Simulations in Physiology gives students the chance to practice in an atmosphere that emphasizes comprehension and critical thinking.

With PhysioEx 10.0's 63 user-friendly laboratory simulation activities, students can do experiments without endangering real animals and that are challenging to carry out in a wet lab setting due to budgetary, time, or safety problems. It also lessens the likelihood that students may make mistakes in a live lab by allowing them to repeat labs as frequently as they desire.

