

Koovapadam, Kochi-2

Affiliated To Mahatma Gandhi University Re-accredited by NAAC With B+ Grade

Fourth Cycle
NAAC Accreditation 2024



# Criterion 2 Teaching-Learning and Evaluation

# 2.3 - Teaching- Learning Process

Metric No. 2.3.1

Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences and teachers use ICT- enabled tools including online resources for effective teaching and learning process

Learning methodologies using ICT

Submitted to



National Assessment and Accreditation Council



# THE COCHIN COLLEGE

#### **KOCHI - 682 002**

(Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in email: email@thecochincollege.edu.in

## Learning methodologies using ICT

In the rapidly evolving landscape of education, the integration of Information and Communication Technology (ICT) tools has become indispensable for enhancing teaching methodologies and learning experiences. The Cochin College has embraced this transformation by incorporating a wide array of ICT tools across various departments, thereby fostering an environment that encourages interactive, flexible, and personalized learning. This document outlines the college's comprehensive approach to leveraging ICT in education, detailing initiatives such as the implementation of EdSpace, the college's Moodle-based Learning Management System (LMS), the adoption of Massive Open Online Courses (MOOCs), and the introduction of ICT-based add-on and certificate courses. Furthermore, it highlights the college's commitment to experiential learning through the establishment of specialized centers, the use of educational software, and the creation of blended learning environments. By providing students with access to cutting-edge technology and innovative teaching methods, The Cochin College ensures that its academic programs remain relevant and effective in preparing students for the challenges of the modern world. This introduction serves as a gateway to understanding the diverse ICT-driven educational practices at The Cochin College, aimed at enriching student engagement, improving academic outcomes, and fostering a lifelong love for learning. In the rapidly evolving educational landscape, Information and Communication Technology (ICT) has become an indispensable tool for enhancing the teaching and learning process. At The Cochin College, the integration of ICT tools into the curriculum is a strategic initiative aimed at improving the effectiveness and accessibility of education. This approach not only enhances the teaching experience for educators but also enriches the learning experience for students. Integrating Information and Communication Technology (ICT) tools into teaching has significantly enhanced the learning experience by fostering engagement, interactivity, and accessibility. ICT tools such as interactive whiteboards, learning management systems, and multimedia presentations allow for more dynamic and personalized learning environments. These technologies enable teachers to present complex ideas visually, facilitate real-time collaboration among students, and offer online resources that cater to diverse learning needs. Furthermore, ICT tools streamline assessments and feedback processes, allowing teachers to track student progress more effectively and adapt instruction to meet individual learning objectives.





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#### 1 E-resources and Journals

The Cochin College Library integrated e-resources and journals, for providing valuable support to academics and enhancing overall research and learning environments. The e-resources available at The Cochin College Library includes

## 1.1 Online Subscriptions

- 1. UGC- INFLIBNET- NLIST
- 2. DELNET
- 3. CUSAT Institutional Repository

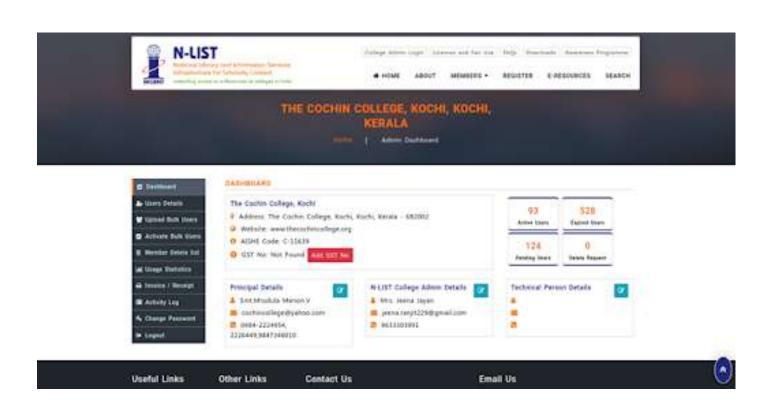


Figure 1: N-LIST Subscription





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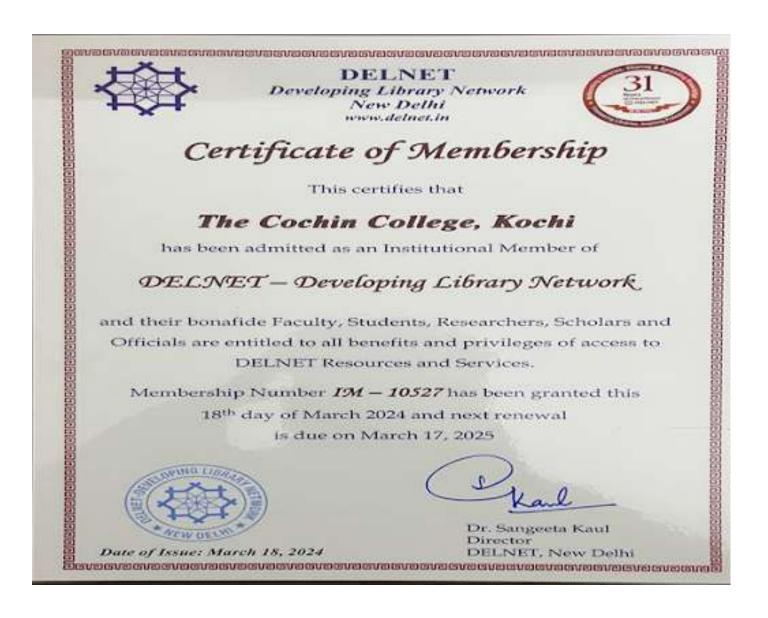


Figure 2: DELNET Membership

#### 1.2 Open Educational Resources

- 1. E- Books & E- Journals: Shodh Sindhu, JSTOR, e-PG Pathsala, etc. through N-List.
- 2. E-theses: Shodhganga and Shodhgangotri
- 3. Consortium for Educational Communication (CEC)



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Repository of Research in Progress & PG Dissertations

Repository of Research in Progress/Synopses

MRPs/ PDFs/ Emeritus Fellowship Reports

Repository of Research in Progress/Synopses

MRPs/ PDFs/ Emeritus Fellowship Reports



Figure 3: Open Educational Resource Shodhgangotri

About Shodhgangotri









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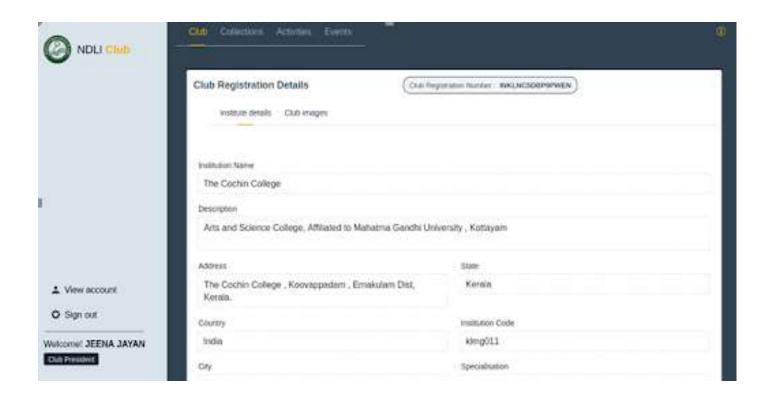


Figure 4: NDLI Club Registration Details





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## 1.3 Digital Reference Service by The Cochin College Library

- 1. Previous Year Question Bank
- 2. Dspace- Institutional Repository
- 3. Ready-reference Service



Figure 5: Interface of Dspace- Institutional Repository





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## 2 EdSpace - LMS

EdSpace, The Cochin College's Moodle-based Learning Management System (LMS), plays a critical role in enhancing student admission and support mechanisms within the institution. This robust platform is specifically designed to streamline the integration of new students into the college environment by providing seamless access to essential educational resources and course materials. As a comprehensive system, EdSpace is instrumental in distributing information crucial for student orientation and ongoing academic engagement, making it an indispensable hub for both incoming students and seasoned educators. The platform's user-friendly backend interface allows for efficient management of user accounts and educational content, ensuring that all students, regardless of their technical proficiency, can easily navigate and utilise the system to its full potential. This facilitates a smoother transition for new students as they adapt to college life. Furthermore, EdSpace's powerful reporting tools offer detailed insights into student performance and course effectiveness, enabling tailored support and personalised learning pathways that address individual student needs and preferences. By implementing EdSpace, The Cochin College not only enhances the academic experience but also significantly bolsters its student support services, ensuring that every student receives the guidance and resources necessary for success. This integration of advanced technology reaffirms the college's commitment to creating an adaptive, inclusive, and effective educational environment, where every student is well-supported from admission through to graduation.







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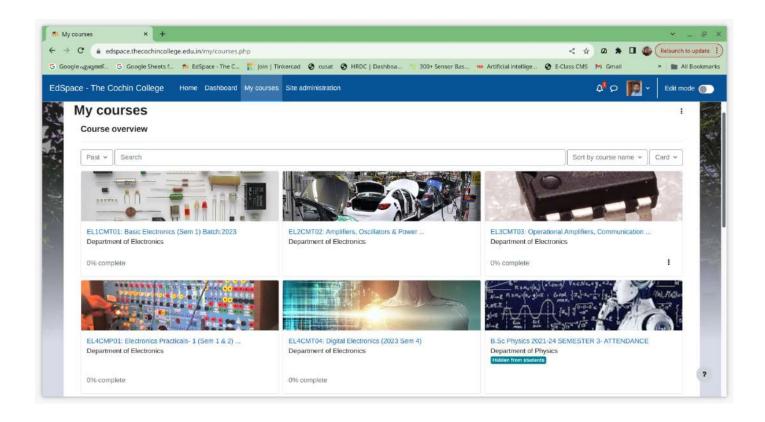


Figure 6: EdSpace view from faculty interface









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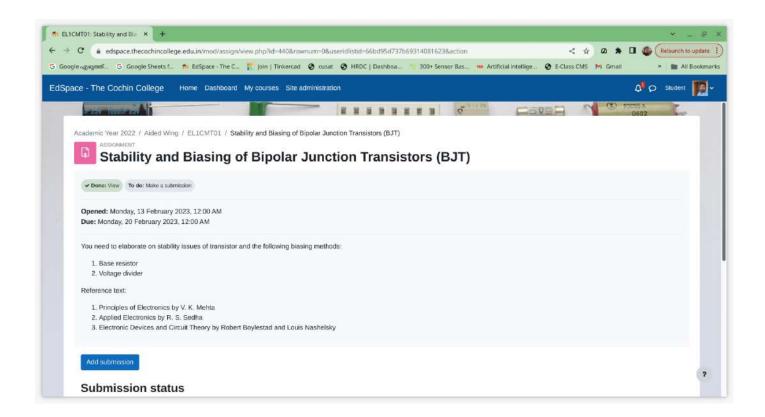


Figure 7: EdSpace view from student interface





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## 3 MOOCs (Massive Open Online Courses)

MOOCs (Massive Open Online Courses) have become an essential component of education, offering a flexible and accessible platform for students to enhance their learning. These courses provide the opportunity to study anytime and anywhere, allowing students to balance their studies with other commitments. With a wide range of course offerings that go beyond the traditional curriculum, MOOCs enable students to explore interdisciplinary subjects and tailor their education to suit personal and professional interests. They are particularly valuable for skill enhancement, as they provide practical, industry-relevant knowledge designed by leading universities and experts. MOOCs also promote lifelong learning, encouraging students, alumni, and faculty to stay updated on the latest developments in their fields. By connecting students with a global community of learners, MOOCs offer diverse perspectives and networking opportunities. Additionally, they are often free or low-cost, making high-quality education accessible without financial constraints. MG University supports a blended learning approach by integrating MOOCs into the curriculum, combining traditional classroom teaching with online resources for a richer learning experience. The self-paced nature of MOOCs allows students to grasp complex concepts at their own speed, catering to different learning styles and helping them excel academically. All the first year degree students take part in the MOOC.







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Figure 8: Certificate of MOOC course







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Figure 9: Certificate of MOOC course





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## 4 ICT Tools based Add-On/Certificate Courses

Several departments in The Cochin College offer students additional courses and certificates in ICT tools, providing them with supplementary skills, knowledge, and qualifications that enhance their proficiency in the field of information and communication. These add-on courses, such as medical coding, Tally, IELTS, and digital marketing, equip students with practical, industry-relevant expertise, broadening their career prospects and helping them stay competitive in the evolving job market.







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# ADD-ON COURSE ADD-ON COURSE SYLLABUS (30 HRS) All your courses in one place. We are the future of your career

#### . TALLY

BASIC ACCOUNTING - JOURNAL ENTRY FUNDAMENTALS OF TALLY. ACCOUNTING MASTERS IN TALLY. COMPANY CREATION ACCOUNTING AND INVENTORY MASTERS VOUCHER ENTRY IN TALLY. PURCHASE AND SALES MANAGEMENT ORDER PROCESSING INVENTORY MANAGEMENT WAREHOUSE MANAGEMENT BANKING MANUFACTURING PROCESS COST CENTERS STATUTORY TAXATION - BUDGET VARIANCE CHEQUE PRINTING BACK AND RESTORE SECURITY SYSTEM SPLIT COMPANY DATA REPORT PRINTING. GOODS AND SERVICES TAX (GST) BACK UP & RESTORE EXPORT-IMPORT

SPLITTING OF COMPANY DATA

JOB COSTING

TAX DEDUCTED AT SOURCE

TAX COLLECTED AT SOURCE

PAYROLL ACCOUNTING AND COMPLIANCE
TECHNOLOGICAL ADVANTAGES OF TALLY

APPLICATION MANAGEMENT AND CONTROLS

GST

## BENEFITS OF LEARNING TALLY

ONE OF THE FIRST TALLY COURSE BENEFITS IS THE ACCURACY OF INFORMATION. AFTER BEING ENTERED INTO TALLY PRIME, YOUR DATA IS UNLIKELY TO BE LOST FOR ANY ILLIMITABLE REASONS.

THE SECOND ONE AMONG THE TALLY COURSE BENEFITS IS INFORMATION ASSURANCE. ONCE THE DATA IS STORED INSIDETHE SOFTWARE PACKAGE, THERE IS NOT EVEN THE TINIEST POSSIBILITY OF DATA ALTERING

HELPS TO MAINTAIN THE TRUST AND CONFIDENCE THAT ARE ESSENTIAL TO THE

THE FOURTH TALLY COURSE BENEFITS ARE THE USER-FRIENDLY EXPERIENCE.

THE FIFTH TALLY COURSE BENEFITS ARE UNCOMPLICATED DATA MOVEMENT
PROVIDING FILING ASSISTANCE FOR GST

MAKING BUSINESS EASY WITH TALLY



#### JOB OPPORTUNITIES

Executive Assistant
Accounting Clerk
Accounting Associate
Accounts Assistant
Accounts Executive
Accounts Supervisor
Tally Accounts Manager
Tally Accounts Manager
Tally Accounts Executive
Service Coordinate with Tally
Tally Junior Accountant
Tax Accountant
Bookkeeper
Investment Banker
Financial Tally Analyst

Figure 10: Brochure of certificate course offered on Tally







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## ADD-ON COURSE All your courses in one place. **ADD-ON COURSE** SYLLABUS (30 HRS) e are the future of our career DIGITAL MARKETING SOCIAL MEDIA MARKETING / ONLINE MARKETING . WHY OUR BUSINESS NEEDS TO BE ON SOCIAL MEDIA . WHICH SOCIAL PLATFORMS MAKE THE MOST SENSE TO USE . HOW TO CREATE SOCIAL MEDIA GOALS . POST OUR SOCIAL MEDIA CONTENT MOBILE MARKETING EMAIL MARKETING PAY-PER-CLICK MARKETING BENEFITS OF LEARNING DIGITAL MARKETING CREATE SOCIAL MEDIA POSTER FACEBOOK DISCOVER THE PROFESSIONAL IN YOU INSTAGRAM EMBARK YOUR CAREER TWITTER

TWITTER
OLX ETC.

A WIDE RANGE OF CAREER OPTIONS

BETTER SALARY (MOST FASCINATING ADVANTAGE OF DIGITAL MARKETING COURSE)
FLEXIBILITY IN WORK SCHEDULE

DEPLOYMENT OF SKILLS FROM ONE COMPANY TO ANOTHER
EXHIBIT CREATIVITY

EFFICACIOUS AND EXTREMELY COST-EFFECTIVE
TRACKABLE AND MEASURABLE RESULTS

IN ASSOCIATE WITH





DIGITAL MARKETING MANAGER
SEARCH ENGINE OPTIMIZER (SEO EXECUTIVE)
SOCIAL MEDIA MARKETING EXPERT
CONTENT MARKETING MANAGER
COPYWRITER
SEARCH ENGINE MARKETER/ SPECIALIST
INBOUND MARKETING MANAGER
CONVERSION RATE OPTIMIZER
WEBSITE CONTENT WRITER

WEB DEVELOPER ETC.

Figure 11: Brochure of certificate course offered on Digital Marketing







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Figure 12: Brochure of certificate course offered on Medical Coding

www.veekshaeducation.com







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#### • IELTS

LISTENING
PRACTISING ALL QUESTION TYPES. (MONOLOGUES, DIALOGUE, CONVERSATION)
RECOGNISING INTONATION PATTERNS (QUESTIONS, SURPRISE ETC)
VARIETIES OF SPOKEN ENGLISH, INCLUDING AUSTRALIAN, BRITISH, NORTH AMERICAN AND NEW ZEALAND
LISTENING FOR SPECIFIC INFORMATION, KEYWORDS, GENERAL INFORMATION, NUMBERS, TRANSITION SIGNALS AND DISCOURSE
MARKERS (FIRSTLY, SECONDLY, OBVIOUSLY, FURTHERMORE, INDEED).

PRACTISING 3 SECTION OF READING TESTS.
SKIMMING (TO GET A GENERAL UNDERSTANDING)
SCANNING (LOOKING FOR SPECIFIC INFORMATION)
DEVELOPING VOCABULARY
SUMMARISING
DETERMINING THE WRITER'S ATTITUDE AND OPINION.

PRACTISING ESSAY, GRAPH / DIAGRAM DESCRIPTION.
ADJUSTING STYLE ACCORDING TO PURPOSE.
WRITING PARAGRAPHS, INTRODUCTIONS AND CONCLUSIONS.
USING CONJUNCTIONS AND REFERENTS. ORGANISING INFORMATION LOGICALLY WITHIN A TEXT.





PRACTISING ALL QUESTION TYPES.
PRACTISING PRONUNCIATION AND INTONATION. PRACTISING FLUENCY PRACTISING FLUENCY.
USING AND UNDERSTANDING COMMON PHRASES.
INTERACTING WITH OTHER SPEAKERS.
SPEAKING FOR AN EXTENDED TIME ON A PARTICULAR TOPIC.
PRACTICE HOW TO DEVELOP A CONTENY

## BENEFITS OF LEARNING IELTS

EELTS

BEING ABLETO COMMUNICATE IN ENGLISH

CONNECTS YOU TO A LARGER WORLD.

CURRENTLY, ABOUT 20% OF THE WORLD'S

POPULATION SPEAKE SHIGLISH, ALTHOUGH MOS

ARENT NATIVE SPEAKERS, ENGLISH IS ALSO THE

WORLD'S MOST-STUDIED FOREIGN LANGUAGE.

WITH SO MAIN'Y FOONE STUDY WIG AND LEARNIN

ENGLISH, PRO FICIENCY EXAMS LIKE BLETS HELP

ADMISSIONS OFFICES AND PROSPECTIVE

EMPLOYERS TO GET AN ACCURATE PICTURE OF

YOUR CURRENT ENGLISH LEVEL.

TAKING THE JELTS TEST CAN ENHANCE YOUR EMPLOYMENT PROSPECTS EXCELLENT COMMUNICATION SKILLS ARE ESSENTIAL THESE DAYS AS FIFTY-FIVE COUNTRIES HAVE ENGLISH AS THEIR FIRST LANGUAGE. DEMONSTRATING A GOOD COMMAND OF THE LANGUAGE COULD OPPEN UP OFTIONS FOR YOU TO PURSUE A CAREER IN A FOREIGN COUNTRY

PROVING YOUR ENGLISH LANGUAGE SKILLS CAN HELP YOU GET A NEW JOB OR A PROMOTION IN YOUR HOME COUNTRY AND ARROAD, YOUR IELTS SCORE ON YOUR RESUME WILL SHOW FUTURE EMPLOYERS THAT YOU ARE A SERIOUS AND COMMITTED CANDIDATE.

Figure 13: Brochure of certificate course offered on Medical Coding



Mendulo Menon Mrudula Menon V. Principal-in-Charge The Cochin College



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## 5 Enhancing Learning Experiences with Educational Software

There are a lot of benefits and impacts of incorporating software applications into educational environments, focusing on how these tools can enrich learning experiences, foster engagement, and provide interactive, immersive content for students. Teachers encourage students to use educational softwares like Origin, PhysioX, Chemsketch, Chemdraw, RasMol, Arduin IDE, KiCAD, Python, spyder etc for projects and usual curricular activities.

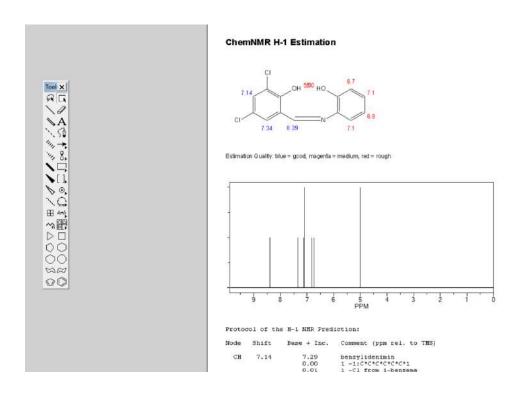


Figure 14: Screen shot of the software Chemdraw







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Figure 15: Screen shot of the software Arduino IDE

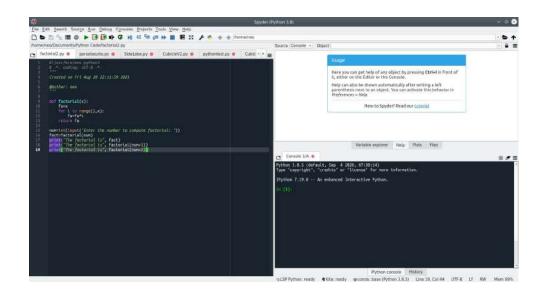


Figure 16: Screen shot of the software python Spyder IDE





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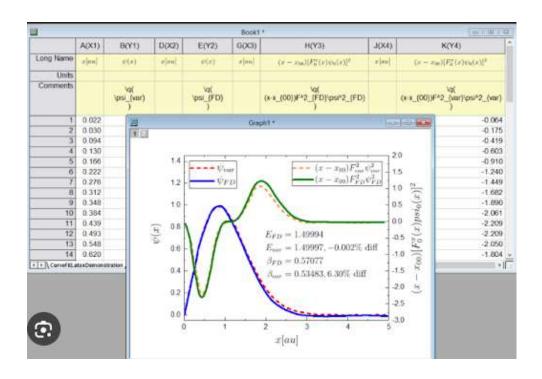


Figure 17: Screen shot of the software Origin

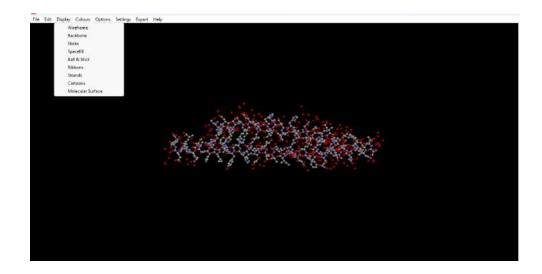


Figure 18: Screen shot of the software Rasmol





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## 6 Experiential learning centres

## 6.1 Language Lab

The recent language lab sessions creates an immersive environment where students actively engaged in enhancing their communication skills. Through dynamic and interactive activities such as role-plays, group discussions, and multimedia exercises, students developed their language proficiency in a supportive setting. The use of modern learning tools facilitated engaging and effective participation, leading to notable improvements in their confidence and communication abilities. Overall, the sessions achieved their goal of fostering better communication skills among students.







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Figure 19: Language Lab







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#### 6.2 Audio Visual room

We utilise the Audio Visual room to conduct interactive lectures, presentations, and film screenings, enriching the learning experience with multimedia content. It also serves as a venue for workshops, seminars, and student projects, where visual and audio aids play a crucial role in effective communication and understanding.



Figure 20: Audio visual room



Figure 21: Multimedia Exercise





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## 7 Blended Learning Environment

Blended learning environment in cochin college is leveraged by technology that use platforms like Google Classroom, open board etc to deliver course materials, assignments, quizzes, and interactive discussions, enabling students to access content anytime. E-books, academic databases, and online journals provide students with vast learning resources. Lectures are often recorded and made available for students to review, allowing them to revisit complex concepts or catch up on missed classes.

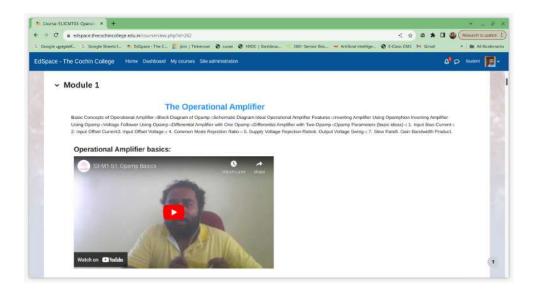


Figure 22: Blended learning using EdSpace and Youtube







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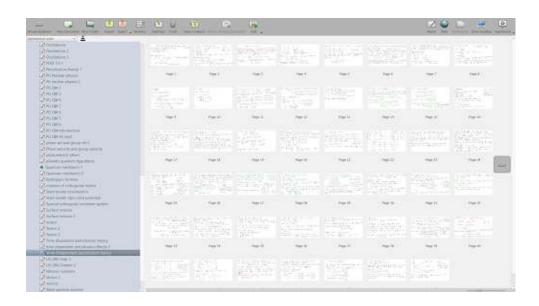


Figure 23: Blended learning using Openboard Onscreen White Board Software

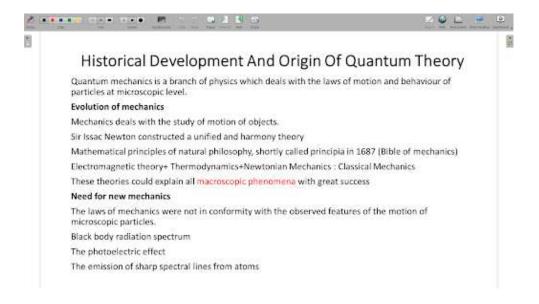


Figure 24: Blended learning using Openboard Onscreen White Board Software





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## 8 Online Remedial Classes

All departments regularly remedial classes both offline and online where previous year question papers are reviewed and important sections of the syllabus are discussed again to reinforce key concepts and prepare students more effectively.

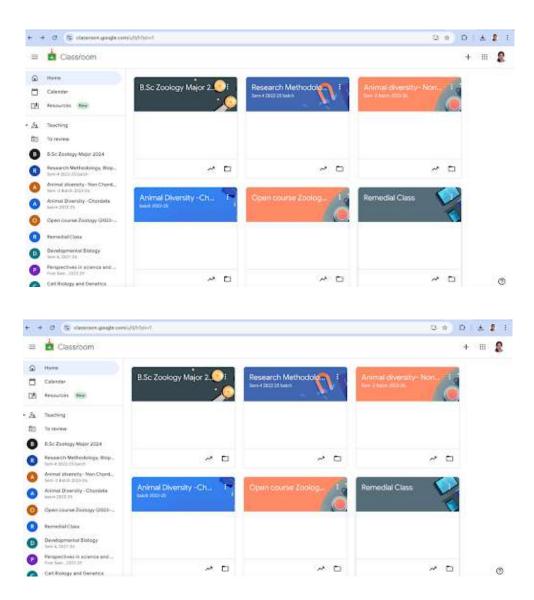


Figure 25: Screenshot of the Google classroom for remedial teaching





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## 9 Smart Class Sessions

The multi-purpose seminar in our college can be transformed into smart classroom for conducting workshops. These technologically enhanced sessions offer students enriched learning experiences by providing access to a wide array of digital resources, interactive tools, and multimedia content, resulting in dynamic and immersive engagement with the course material.





Figure 26: Hands on Training in Python Programming





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## 10 YouTube Vlogs

In our college, teachers from nearly all departments have created and uploaded educational videos on YouTube. These videos serve to supplement classroom instruction, making educational materials accessible to a broader audience and ensuring students can access resources from any location. This use of online educational resources enhances academic engagement and supports learning in an interactive format. The college has its own YouTube channel where videos of various programs are uploaded, providing easy access to educational and event content for students and the broader community.

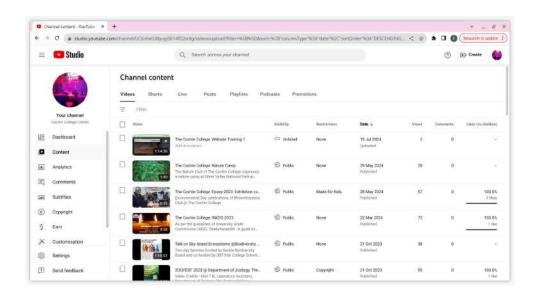
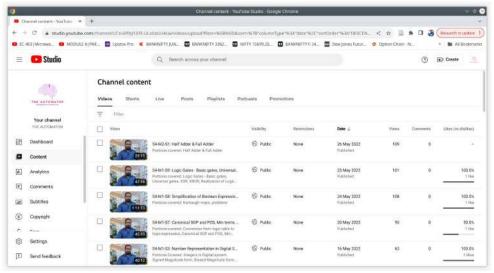


Figure 27: Official Channel Of The Cochin College









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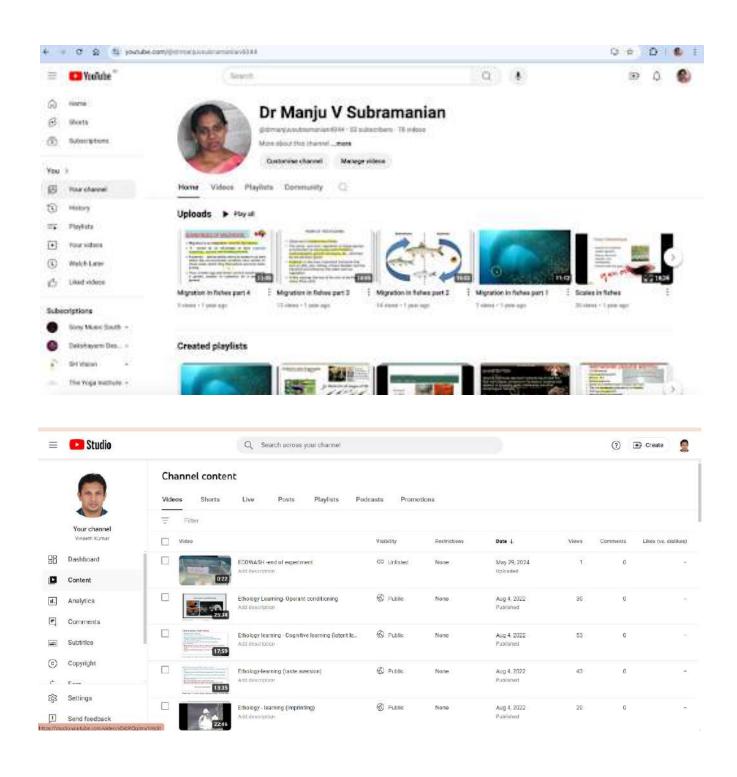


Figure 28: Youtube Vlogs of Faculties from Different Departments







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## 11 E-content shared through WhatsApp group

At The Cochin College, each student batch benefits from dedicated WhatsApp groups, where e-content is shared using ICT tools. This platform enhances individual learning by providing students with convenient access to educational materials, resources, and essential information in a digital format.

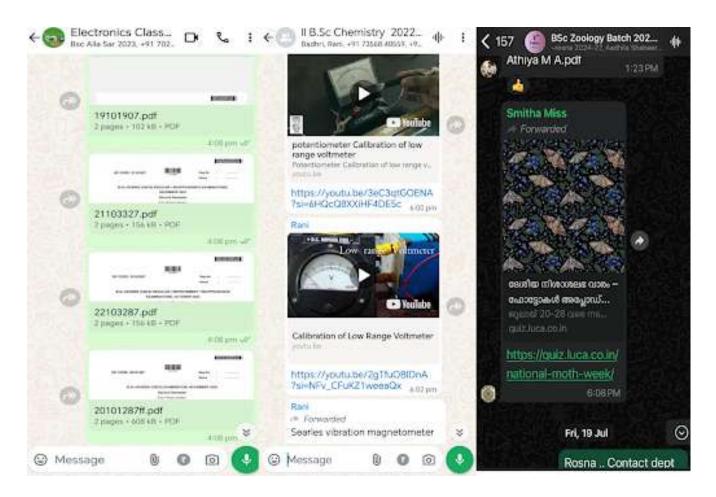


Figure 29: Samples of the E-content shared through WhatsApp group to students





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## 12 Google Meet with youtube live streaming

During the COVID-19 pandemic, integrating Google Meet with YouTube live streaming significantly enhanced remote engagement and communication. Google Meet provided a platform for real-time, interactive video conferencing, allowing for direct participation and discussions. Meanwhile, YouTube live streaming extended the reach of these sessions, enabling broadcast to a much larger audience, including those who could not join live meetings. The college has its own YouTube channel from where live meetings can be streamed.

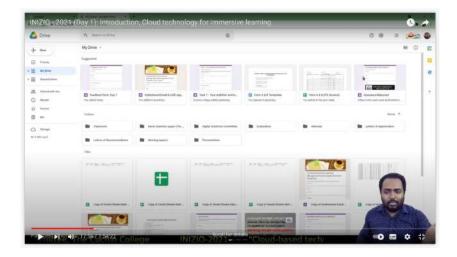




Figure 30: Screenshots of Google Meet with youtube live streaming





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## 13 Google Meet

In the current educational landscape, Google Meet has become a crucial tool for teaching and learning. At Cochin College, faculties use Google Meet alongside regular classes to enhance the learning experience for students, providing additional support and flexibility in accessing educational content.



Figure 31: Screenshots of Google Meet

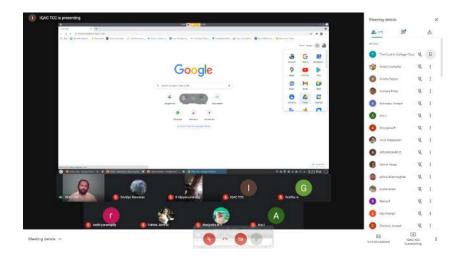
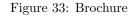


Figure 32: Screenshots of Google Meet









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#### 14 Webinar Presentations

Webinar presentations by the students of The Cochin College utilize advanced ICT tools, offering an interactive platform for showcasing their ideas and research. These sessions allow students to engage in dynamic presentations, enhancing the effectiveness of their delivery through the use of technology.

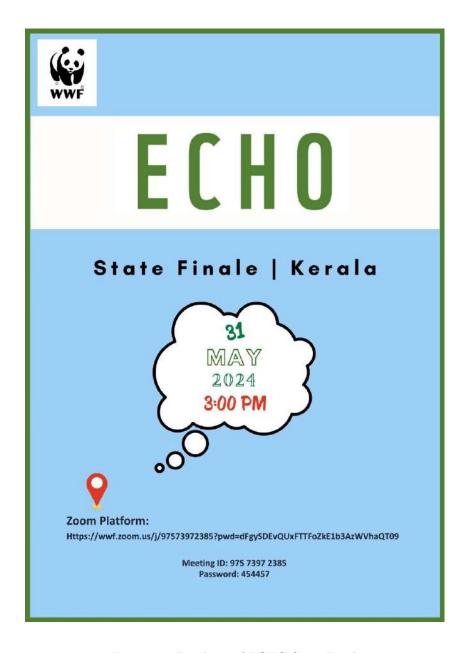


Figure 34: Brochure of ECHO State Finale



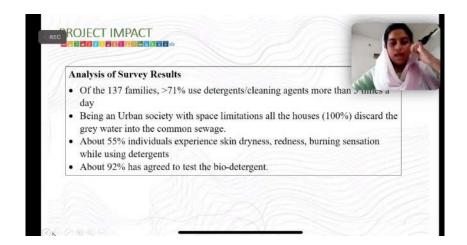


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Figure 35: Screenshots of Students Participating in Webinar of ECHO State Finale







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### 15 Google Classroom

Google Classroom was instrumental in enabling seamless online teaching during the COVID-19 pandemic. Serving as one of the main platforms for educators, its user-friendly features and integration with various Google tools significantly streamlined the teaching process. This made online education more accessible and efficient, supporting both teachers and students in adapting to remote learning.

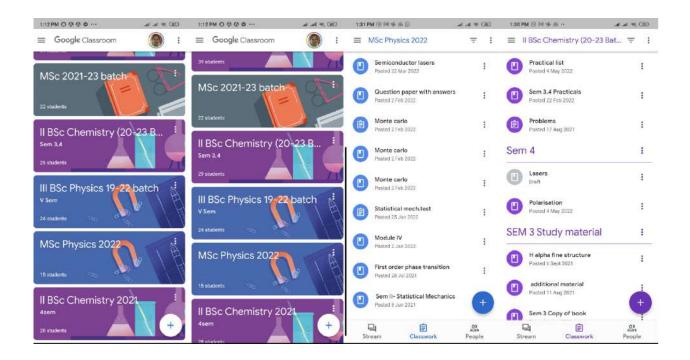


Figure 36: Screenshots of the Google classroom









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#### 16 ISRO START

ISRO launched a new introductory-level online training program called 'Space Science and Technology Awareness Training (START)' aimed at post-graduate and final-year undergraduate students of physical sciences and technology. The program covers various domains of space science, including Astronomy and Astrophysics, Heliophysics & Sun-Earth interaction, Instrumentation, and Aeronomy. The scientists from Indian academia and ISRO centers deliver lectures. The program provided students with an introductory-level training in space science and technology, giving them an overview of different facets of the field, research opportunities, and career options. The training also emphasized the cross-disciplinary nature of space science, giving students insights into how their individual aptitudes could be applied to the field.

The Cochin College is a recognised Nodal Centre of Indian Institute of Remote Sensing (IIRS), ISRO for conducting online sessions of e-classes. The Nodal centre is coordinated by Dr. Paulbert Thomas and started its service from 20 July 2023. Two sessions of ISRO START programmes were held at The Cochin College.



Figure 37: Inauguration Session of ISRO START







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# भारतीय सुदूर संवेदन संस्थान/ INDIAN INSTITUTE OF REMOTE SENSING भारतीय अंतरिक्ष अनुसंघान संगठन/ INDIAN SPACE RESEARCH ORGANISATION अंतरिक्ष विभाग, भारत सरकार/ DEPARTMENT OF SPACE, GOVERNMENT OF INDIA



ऑनलाइन दूरस्थ अघिगम कार्यक्रम ONLINE DISTANCE LEARNING PROGRAMME

COR2023300118597

समन्वय का प्रमाणपत्र
CERTIFICATE OF COORDINATION

यह प्रमाणित किया जाता है कि द कोचीन कॉलेज कार्यरत पॉलवर्ट थॉमस, ने इसरो स्टार्ट कार्यक्रम के अंतर्गत अंतिरक्ष विज्ञान और प्रौद्योगिकी का अवलोकन विषय पर इस संस्थान द्वारा दिनांक 20-07-2023 से 07-08-2023 तक संचालित ऑनलाइन प्रशिक्षण पाठचक्रम को समन्वित किया।

This is to certify that **DR. PAULBERT THOMAS**, working with **The Cochin College**, has coordinated the online training course on **Overview of Space Science and Technology** under ISRO START Programme conducted by this institute during July 20, 2023 to August 07, 2023

दिनाँक/ Date: 19-09-2023 देहरादून/ Dehradun प्रमुख, जियोवेब सर्विसेस, सूचना प्रौद्योगिकी एवं दूरस्थ अधिगम विभाग Head, Geoweb Services, IT & Distance Learning Department, IIRS समृह प्रमुख, भू-स्थानिक प्रौद्योगिकी एवं आउटरीच कार्यक्रम समृह Group Head, Geospatial Technologies & Outreach Programme Group, IIRS

Figure 38: Coordinator certificate of ISRO START







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COR139185972024

बिंक्ट :परिसर संपर्क / विस्तार कार्यक्रम प्रमाण पत्र OFF - CAMPUS OUTREACH CERTIFICATE PROGRAMME

PROGRAMME

संस्थान की सहभागिता का प्रमाण पत्र CERTIFICATE OF PARTICIPATION OF INSTITUTE

यह प्रमाणित किया जाता है कि दी कोचीन कॉलेज ने भारतीय सुदूर संवेदन संस्थान, इसरो देहारादून द्वारा संचालित ऑनलाइन प्रशिक्षण पाठचकम इसरो स्टार्ट कार्यक्रम के अंतर्गत सौर मंडल का अन्वेषण मे भाग लिया। इस ऑनलाइन पाठचकम का संचालन दिनांक 24 अप्रैल 2024 से 10 मई 2024 तक किया गया।

This is to certify that **The Cochin College**, has participated in online training programme conducted by Indian Institute of Remote Sensing, ISRO Dehardun on **Exploration of the Solar System** under ISRO START Programme. This online programme was conducted during April 24, 2024 to May 10, 2024

- Santan

दिनाँक/ Date: 03-06-2024 देहरादून/ Dehradun प्रमुख, जियोवेब सर्विसेस, सूचना प्रौद्योगिकी एवं दूरस्थ अधिगम विभाग Head, Geoweb Services, IT & Distance Learning Department, IIRS dirsha Pratim Das

भू-स्थानिक प्रौद्योगिकी एवं आउटरीच कार्यक्रम समृह Group Head, Geospatial Technologies & Outreach Programme Group, IIRS

Figure 39: Institute certificate of ISRO-START



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### 17 Empowering Scientific Exploration

In collaboration with IUCAA, Dr. Sathyanarayanan K played a key role in contributing to scientific advancements and discussions. A three-day workshop was organized with IUCAA, where research experts guided both staff and students in enhancing their skills in software applications like IRAF and TOPCAT, which are crucial for analyzing planetary data.



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#### अंतर-विश्वविद्यालय केंद्र : खगोलविज्ञान और खगोलभौतिकी



Inter-University Centre for Astronomy and Astrophysics
An Autonomous Institution of the University Grants Commission

Prof. A. N. Ramaprakash Dean, Visitor Academic Programmes

10 August, 2023

Dr. Sathya Narayanan K.
Department of Physics
The Cochin College
Mattancherry
Ernakulam
Kerala- 682 002

Dear Dr. Sathya Narayanan K.,

I am very happy to inform you that your term of Visiting Associateship at IUCAA has been extended for a further period of three years with effect from August 1, 2023. We hope that this will enable you to continue to make good use of our facilities through your next term, and that your visits to IUCAA will prove to be very productive.

I am enclosing along with this letter of invitation (1) a copy of the letter I have sent to the Principal\_of your College, explaining the programme and requesting him/her to treat your visits to IUCAA under this programme as "on duty", (2) a copy of a letter sent in September 2, 2004 to the Vice-Chancellors of different universities by Professor Arun Nigavekar, the then Chairman of the University Grants Commission (UGC). You may use these letters when you apply for leave for visits to IUCAA, if you find that necessary.

I shall look forward to your response to this letter of invitation and hope that you will contribute to IUCAA activities and your research will benefit from your regular visits, participation and advice. The Terms and Conditions of the Associateship Programme are also enclosed along with this letter.

With kind regards,

Sincerely,

Professor A. N. Ramaprakash

Encl: (1) Copy of the letter sent to the Principal of your College; (2) Copy of letter sent by UGC;

(3) Terms and Conditions of the Associateship Programme.

Address : IUCAA, Savitribai Phule Pune University Campus, Ganeshkhind, Pune 411007, India. पता : IUCAA, सावित्रीबाई फुले पुणे विश्वविद्यालय परिसर, गणेशखिंड, पुणे ४९६००७, भारत. Phone / दूरभाष : (91) (20) 25604100 E-mail/ईमेल : anr@iucaa.in Web Page/वेब पेंज : https://www.iucaa.in

Figure 40: Association of Dr. Sathyanarayanan with IUCAA







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Figure 41: Participants in Workshop UVIT Data Analysis on Galaxies







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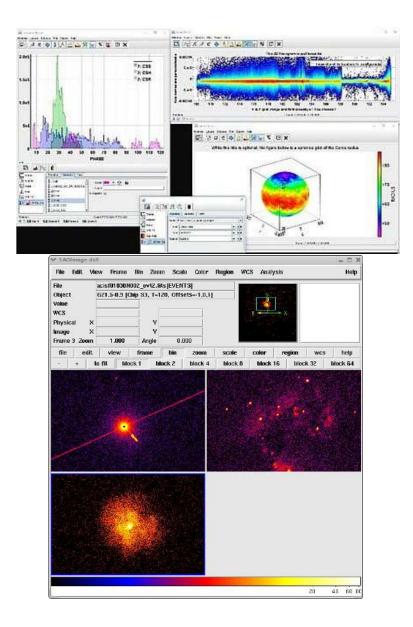


Figure 42: Screen shot of the softwares used in UVIT Data Analysis on Galaxies



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### 18 Quiz

At The Cochin College, teachers are leveraging ICT tools to enhance online learning experiences through the use of Quizizz on platforms like Google Forms. This innovative approach not only boosts student engagement but also deepens comprehension, creating a more interactive and impactful educational environment. By integrating these tools, instructors are fostering an enriched learning experience that is both dynamic and effective.

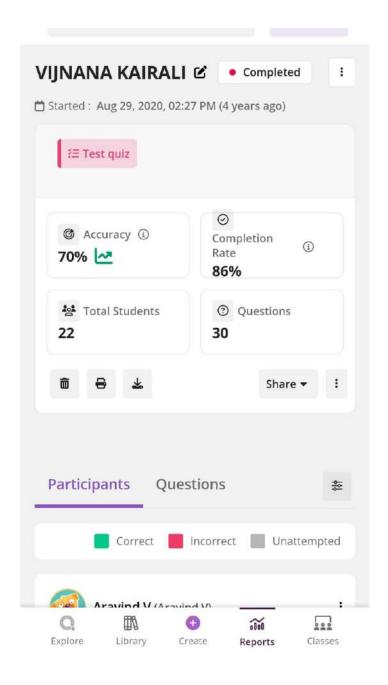


Figure 43: screenshot of Quizizz





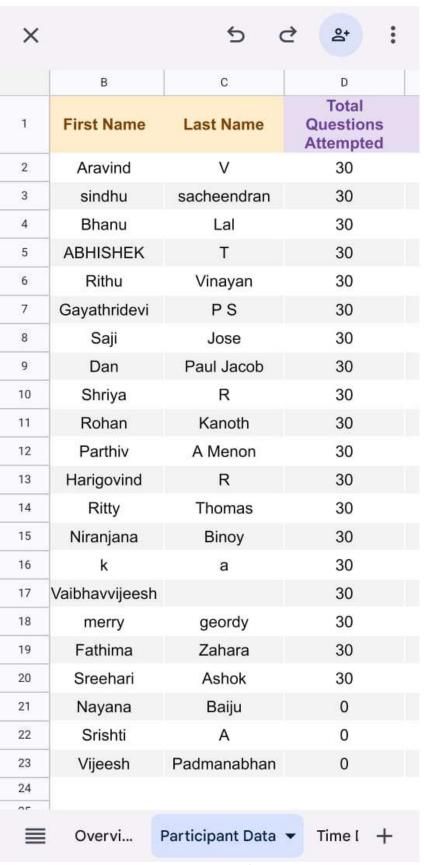


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46 Home

Figure 44: screenshots of Students Participated in Quizzes





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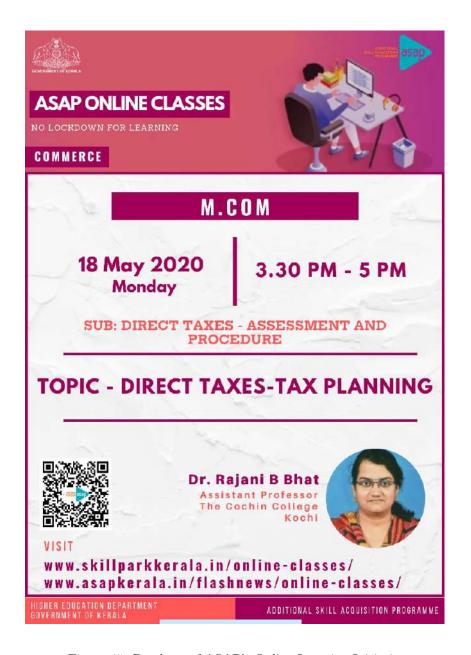
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### 19 ASAP's Online Learning Initiative

ASAP organized online classes in association with universities within the state to support students during the lockdown period. The online classes were conducted through the WEBEX portal by expert faculties. Faculties from Physics and Commerce departments participated in ASAP's Online Learning Initiative during the lockdown, delivering relevant topics for both undergraduate and postgraduate programs, ensuring continuity and quality of education during challenging times.



COOMIN-2

Figure 45: Brochure of ASAP's Online Learning Initiative







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Figure 46: Recognizing Excellence in ASAP's Online Learning Initiative

