



WMO ARTS & SCIENCE COLLEGE, MUTTIL

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CRITERIA-4

4.3 IT Infrastructure

4.3.1: IT Infrastructure details

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Introduction

The institution has undergone significant technological advancements with the integration of diverse ICT facilities such as LCD projectors, computer access, Wi-Fi, audiovisual equipment, and smart boards. These tools are extensively utilized in classrooms, seminar halls, libraries, auditoriums, and administrative workspaces. The campus boasts a high-speed broadband internet connection, transforming every corner into a Wi-Fi zone, facilitating academic and extracurricular activities for students. Ensuring the safety of students and staff, the college has implemented a robust CCTV system with well-equipped cameras throughout the campus.

To support virtual learning, the college has successfully implemented various platforms like WMO E-Space (a Moodle-based LMS), Google Classroom, and Teachmint. These platforms have been instrumental in delivering effective online education, especially during the challenging times of the COVID-19 pandemic. The college's IT infrastructure includes a strong network configuration, enabling fast data transmission. With 155 desktops and 7 laptops available, including 129 computers for student use, the college ensures sufficient computing resources. Additionally, the college utilizes 26 HP Deskjet printers, 23 LCD projectors, and two servers to facilitate academic and administrative operations.

Moreover, the college emphasizes the importance of software applications and maintains up-to-date versions of packages such as Open Office, MS Office, and antivirus software. The college also provides a range of standard econometrics, statistical, computational, and scientific typesetting packages such as Python, MATLAB, Java, Maxima, and Pascal. To streamline administrative processes and student profiles, the college has developed its own software application called Campex. Available on the Google Play Store, Campex efficiently manages tasks such as student admissions, accounting, faculty listings, student records, and transfer certificates. In addition, the college has implemented Koha, an open-source integrated library system, in its main library to streamline library operations. The college has also subscribed to the National Library and Information Services Infrastructure, providing access to a vast collection of scholarly content, ebooks, and digital resources.

Overall, the college's technological advancements, coupled with its commitment to providing a comprehensive learning environment, showcase its dedication to embracing modern technology and facilitating enhanced learning experiences for students and faculty members.

1. ICT Enabled facilities

Institute has an adequate number of 195 Desktops and 8 Laptops, out of which 152 are available for students. The college uses 2 servers. In addition, 30 HP Deskjet printers are placed in each departmental workspace. The college uses 27 LCD projectors (Hitachi/Epson) for educational purposes. The College has employed a full-time IT consultant to maintain and support the ICT infrastructure. Learning combined with visual presentations or working on certain software is much more enjoyable and comprehensive for the students. The detailed list of hardware facilities enclosed in Table 1.

Table 1: ICT Facilities

Department/Lab	Desktop	laptop	Smartboard	Projector	Printer	TV
Arabic	2	1	1	1	1	1
Commerce (Co-operation)	2			2	1	
Commerce (Computer application)	1			1	1	
computer science	1		1	2		1
Chemistry	1			1	1	
English	1			1	1	1
Electronics	1		1	4	1	
Economics	1			1	1	
Mathematics	1		1	1	1	
Physics	1		3	4	1	
Social Works	1	1		1	1	1
Statistics	1			1		1
Mass Communication and Journalism	1	1		1	1	1
Hindi & Malayalam	1				1	
Physical Education	1				1	
Total	17	3				
LABS						
Computer Science Lab	69	1		1	2	
Electronics Intelligent Lab	15			1	1	
Electronics Lab	1	1		1		
Physics Lab	16			1		
Language lab	15					
Media Production Room	1					
Seminar Hall/Auditorium				1		

Library	17				1	
Dialogue Hall	1		1	1		1
Total	135					
Used by students	135+17=152					
Other workspace						
IQAC	4				2	
Office	12	2			9	
Store	1				1	
Hostel (Boys)	1				1	1
Hostel (Girls)						1
Total	18					
Total Used	152+18=170					
Damaged and not working.	25	1				
Total	170+25=195	8	8	27	30	9
Total Desktop + Laptop	195+8=203					

2. Administrative Management System

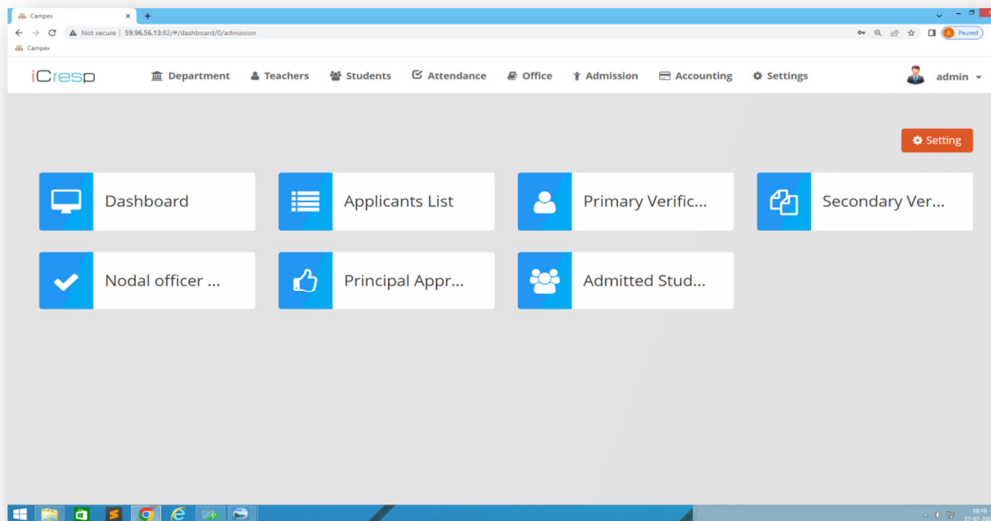


Figure 1: Campex Admission Page

Campex is an innovative software developed within the college to streamline administrative processes and student profiles. From student admissions to the issuance of transfer certificates, Campex efficiently manages these tasks. Moreover, Campex provides a comprehensive solution for tracking student attendance, and parents can conveniently access this information through the Campex app. In addition to attendance management,

Campex effectively handles various other important matters, such as admissions, accounting, faculty listings, student records, and transfer certificates.

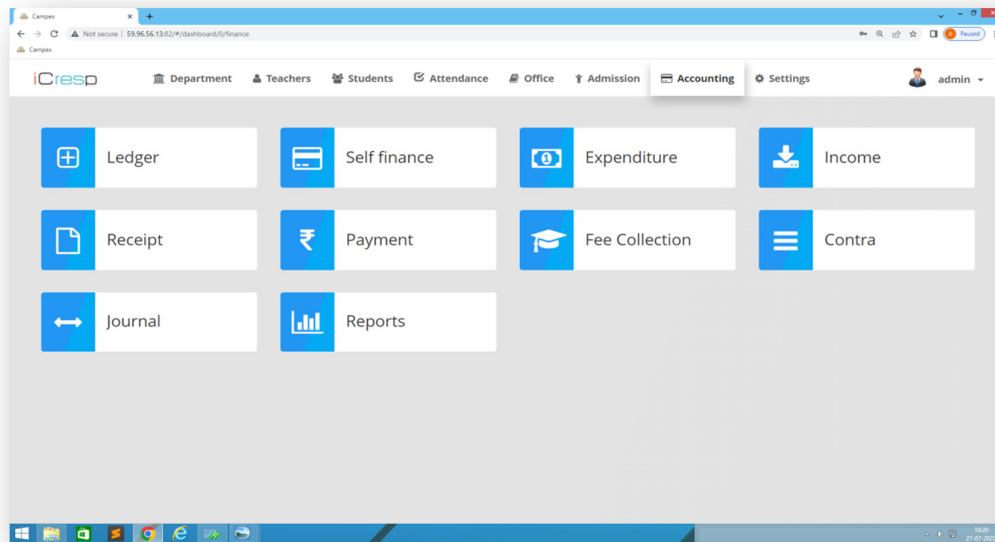


Figure 2: Campex Accounting Page

3. Learning Management Systems

WMO E-SPACE

By the conclusion of the 2018-2019 academic year, all departments within the college recognized the importance of adopting a learning management system (LMS) in response to the COVID-19 pandemic. Platforms such as Google Classroom and Teachmint were swiftly integrated into the teaching and learning processes. Faculty members across the board quickly adapted to conducting classes through these platforms, effectively navigating the challenges posed by the pandemic.

In the subsequent academic year, 2021-2022, the college took a decisive step by establishing its own learning management system, resulting in the creation of WMO E-Space—a Moodle-based LMS. Faculty members and students received comprehensive training and were actively encouraged to participate in faculty development programs (FDPs) to enhance their proficiency in utilizing the Moodle-based LMS. Consequently, the college now manages over 130 courses through the E-Space platform. With the advanced features of E-Space, teachers have the capability to monitor student activities within a course. The inclusion of interactive lessons and feedback features within the LMS facilitates an engaging teaching and learning

process. Additionally, the automated attendance system and grading functionality allow students to easily track their performance in a course. [Link to WMO E-Space](#)

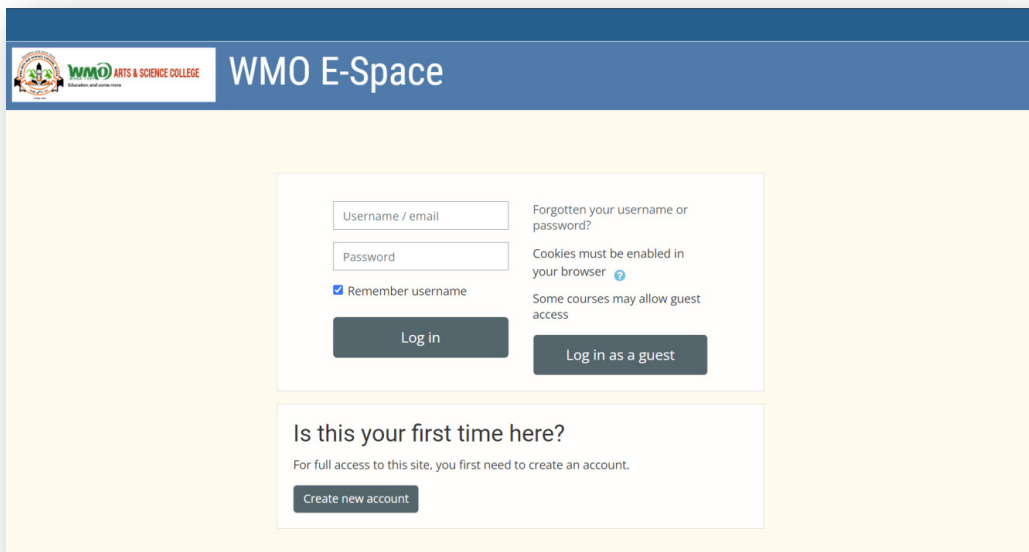


Figure 3: WMM E Space - login page

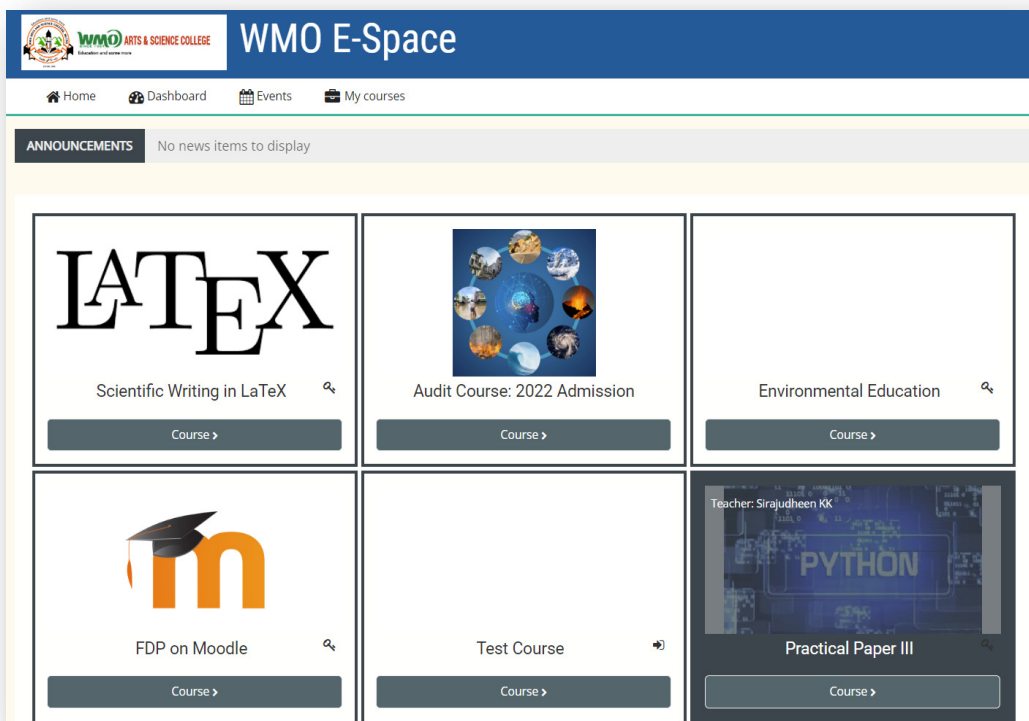


Figure 4: WMO E- Space Courses

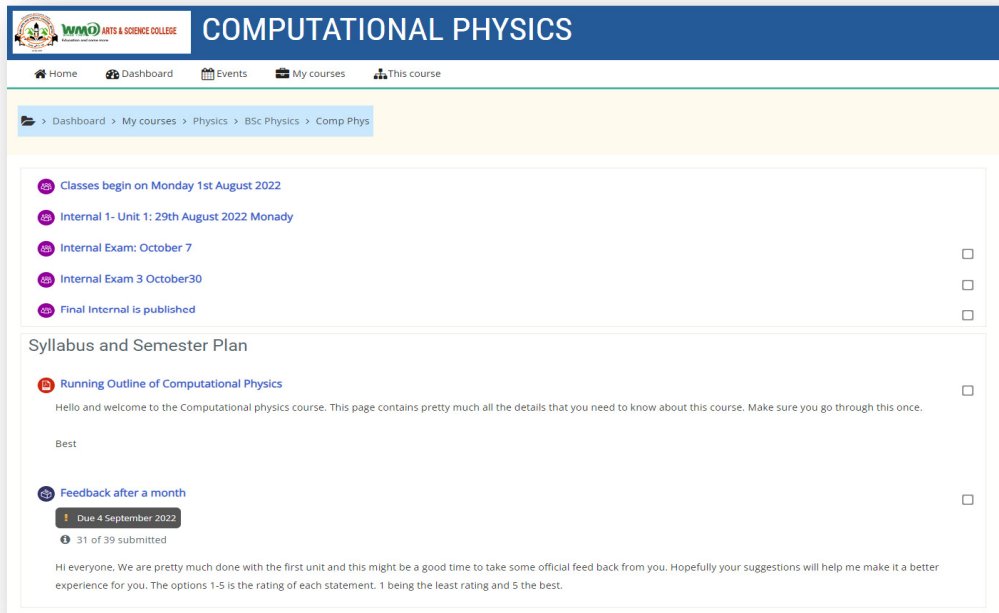


Figure 5: WMO E- Space inside a course

Google classroom

Figure. 6 and Figure. 7 are some sample screenshots of google classrooms.

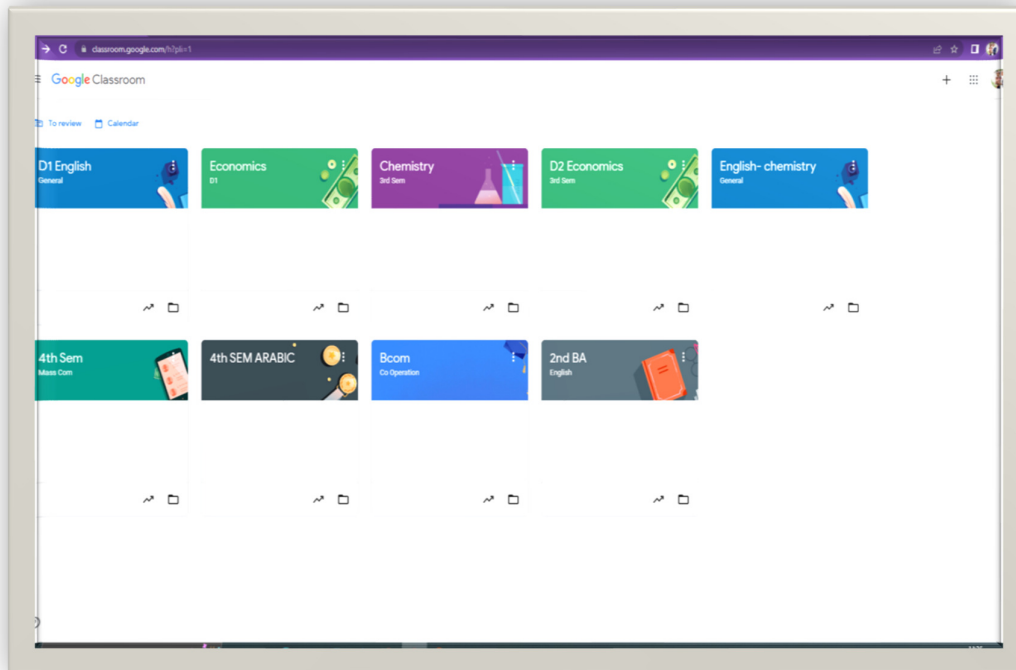


Figure 6: Google classroom 1

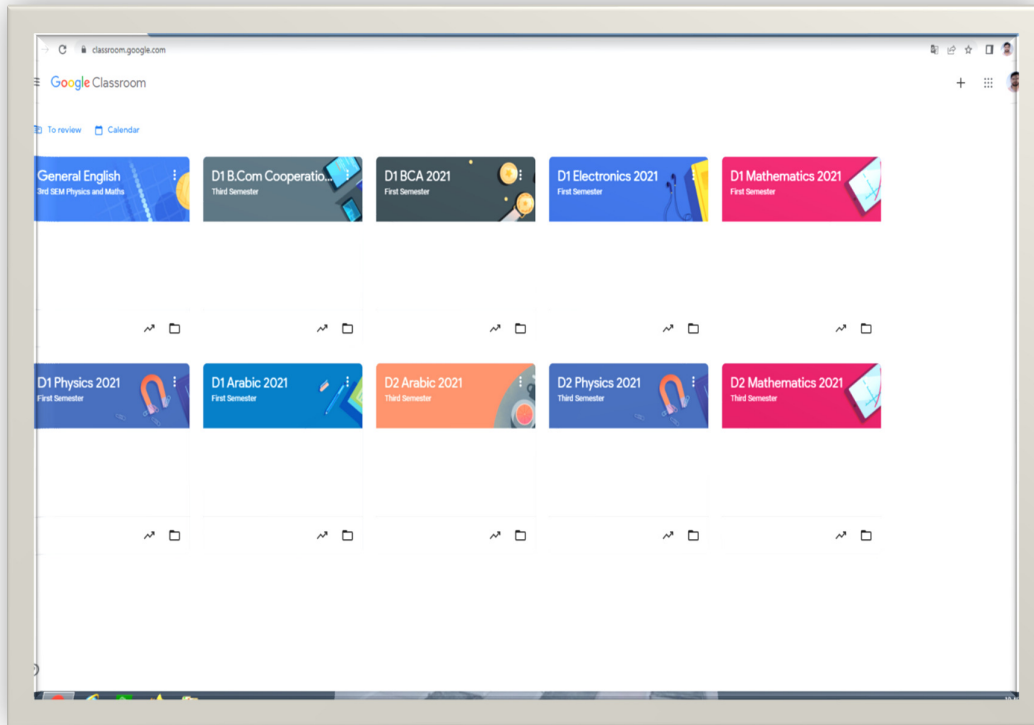


Figure 7: Google classromm 2

Teachmint

Figure. 8 and Figure 9 are some sample screenshots of Teachmint classrooms

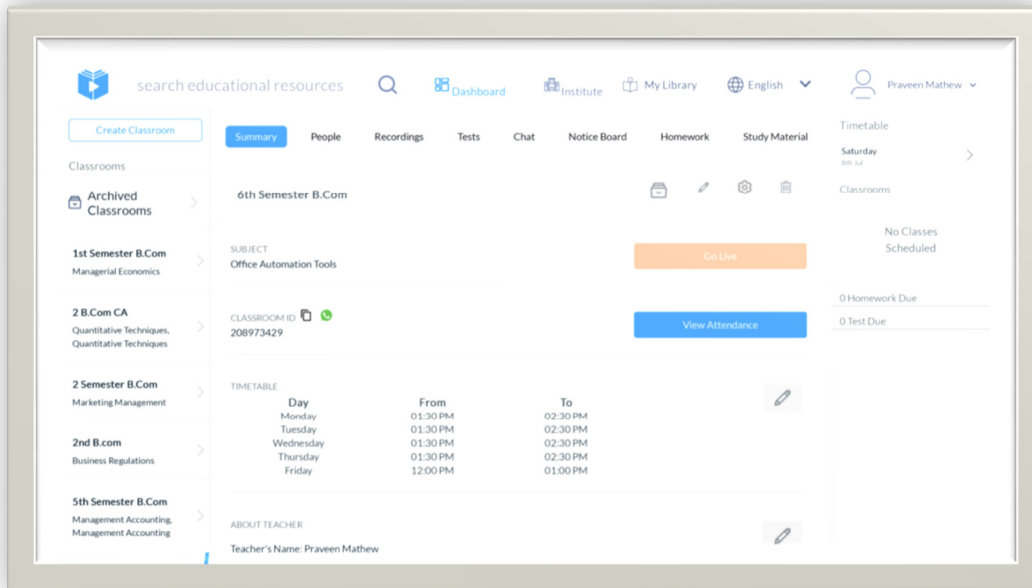


Figure 8: Teachmint Overview

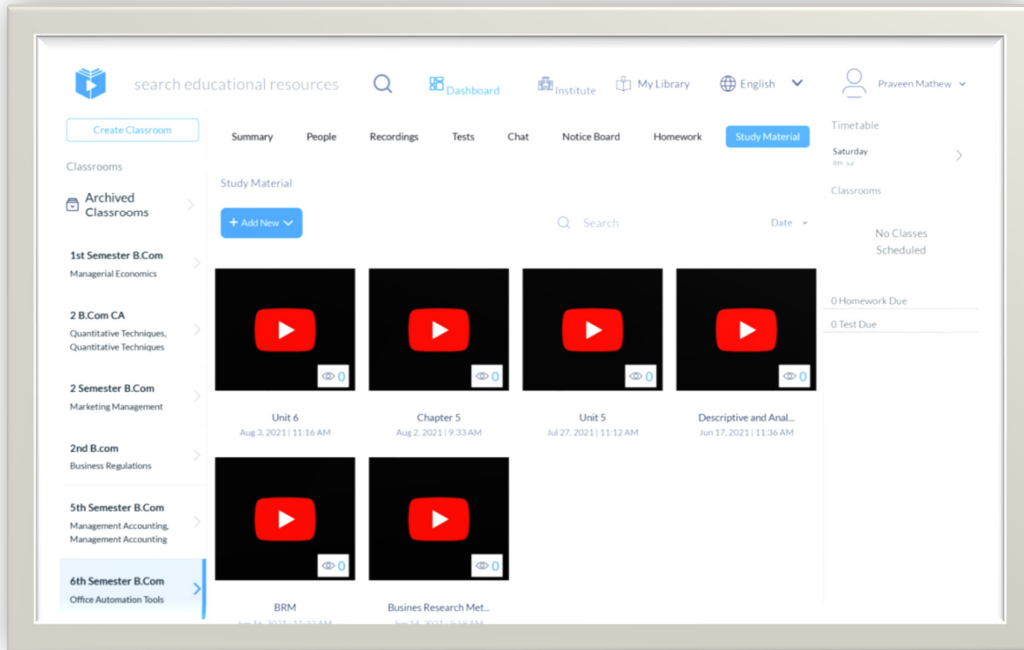


Figure 9: Teachmint Materials

4. Library management System – KOHA

Koha is used in WMO college main library. Koha supports all library housekeeping activities such as Acquisition, Cataloguing, Circulation, Serial Control, Patron Management, and OPAC.

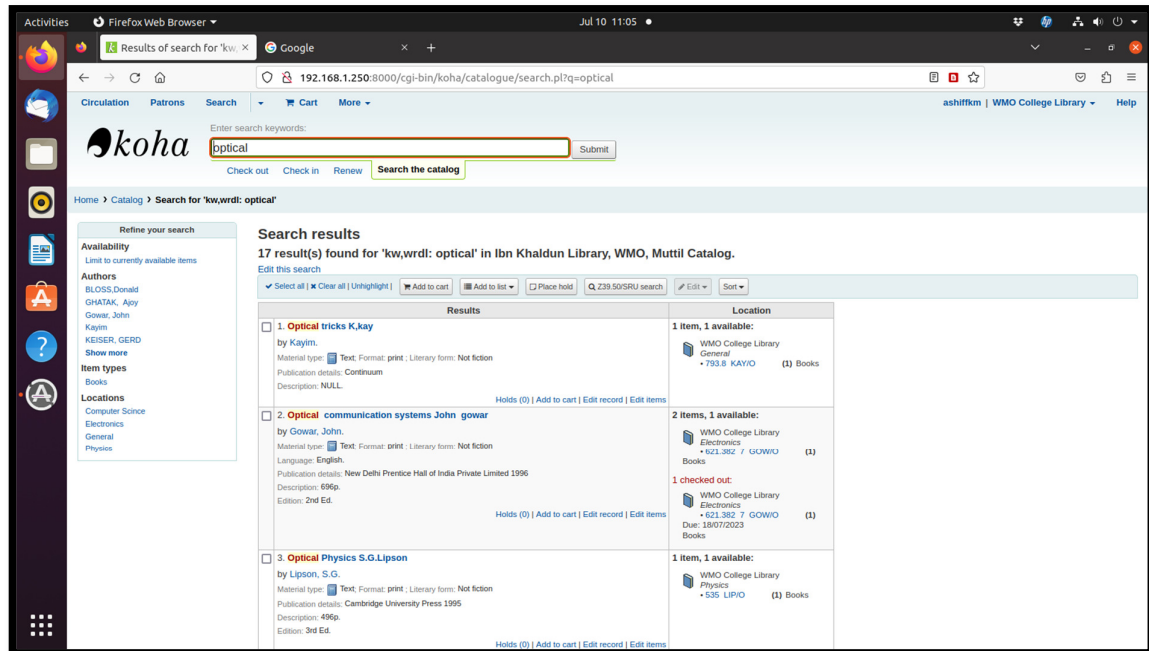


Figure 10: Koha Book Search



Figure 11: Koha OPAC

5. Internet Network System

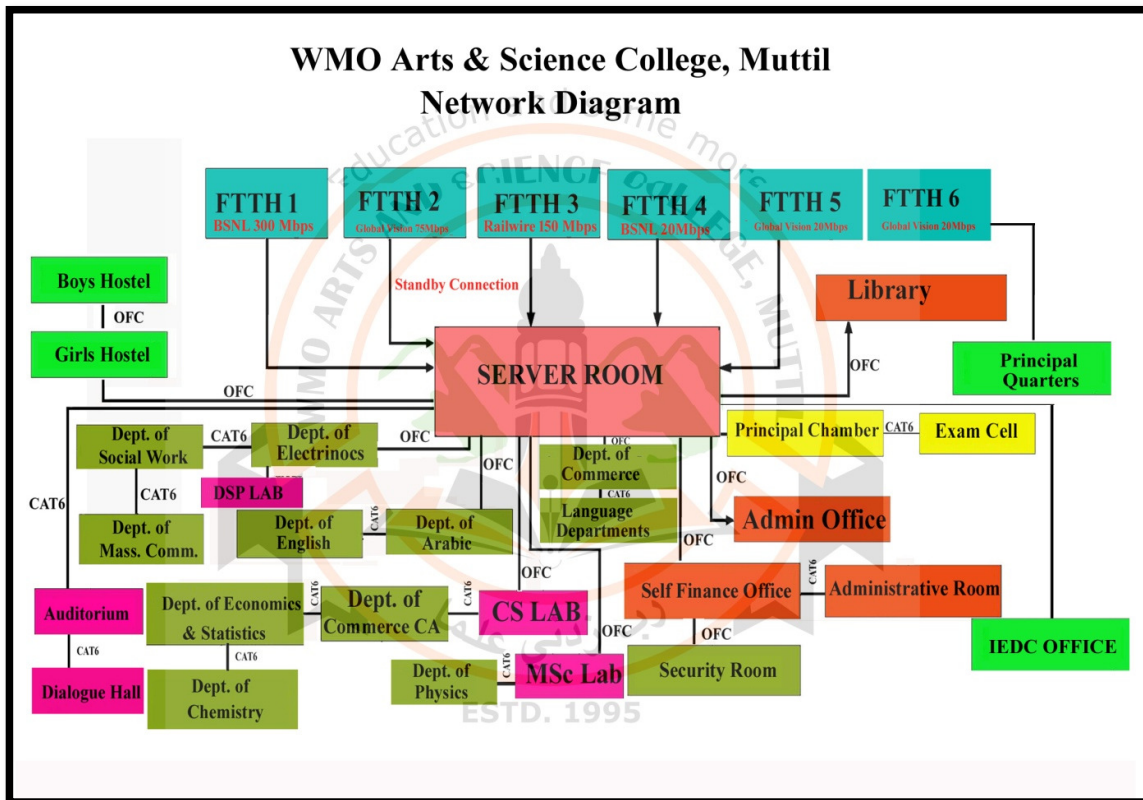


Figure 12: Internet Network Diagram

The college boasts a remarkable facility in the form of a campus-wide internet connection, ensuring seamless connectivity throughout the premises. The college has a total of 5 Fiber-to-the-Home (FTTH) connections, offering high-speed internet with a maximum speed of up to 300Mbps. To extend connectivity, the LAN connection is distributed to all departments and labs within the college. Additionally, the campus is fully covered with internet facilities through the deployment of 27 WiFi access points strategically placed across the campus. The IT department, a diligent and proactive team, takes charge of maintaining two server rooms and overseeing the overall internet connections, ensuring uninterrupted access for all users.

6. E Resources – NLIST

The college has the subscription for National Library and Information Services Infrastructure for scholarly content, A college component of e-ShodhSindhu consortium with access to 6,000+ journals, 1,99,500+ ebooks under N-LIST and 6,00,000 ebooks through NDL. Students and faculties can access e content via NLIST its subsidiaries INFLIBNET.



Figure 13: Nlist

7. Cloud Storage – AWS

The IT department of the college has a subscription to the fundamental AWS cloud storage services. This additional resource, in conjunction with the existing campus server facilities, allows the college to explore innovative storage solutions.

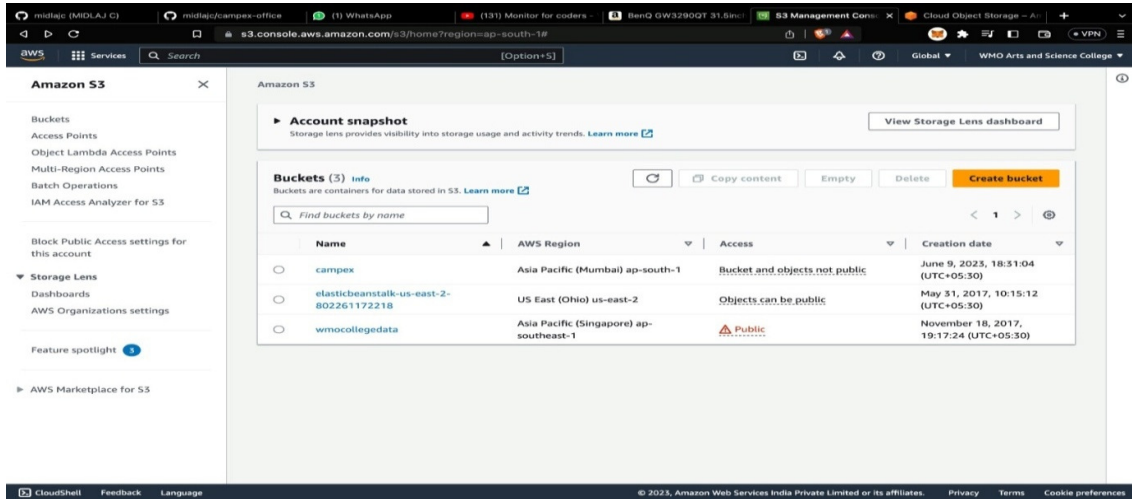


Figure 14: AWS Cloud Storage

8. College Server

To ensure optimal ICT facilities for faculty and students, the college has implemented two servers on its premises. These servers are instrumental in providing reliable and efficient services. Coupled with robust internet connectivity, the college is equipped to meet the demands of the digital age.



Figure 15: Server Room

9. Computer Lab

The computer lab at WMO College is equipped with 69 desktop computers and features a state-of-the-art smart classroom setup, including a projector and screen. The computers are equipped with a comprehensive range of curriculum-related software and have reliable internet connectivity. Additionally, the computer lab is frequently utilized by external agencies to conduct competitive exams



Figure 16: Computer Lab

10. Intelligent Machine Lab

In this AI-driven era, the college has also established an intelligent machine lab with 15 desktop computers within the Department of Electronics. These advanced computers are seamlessly integrated with electronics experiments, enabling students to engage in sophisticated studies and explore cutting-edge research opportunities.

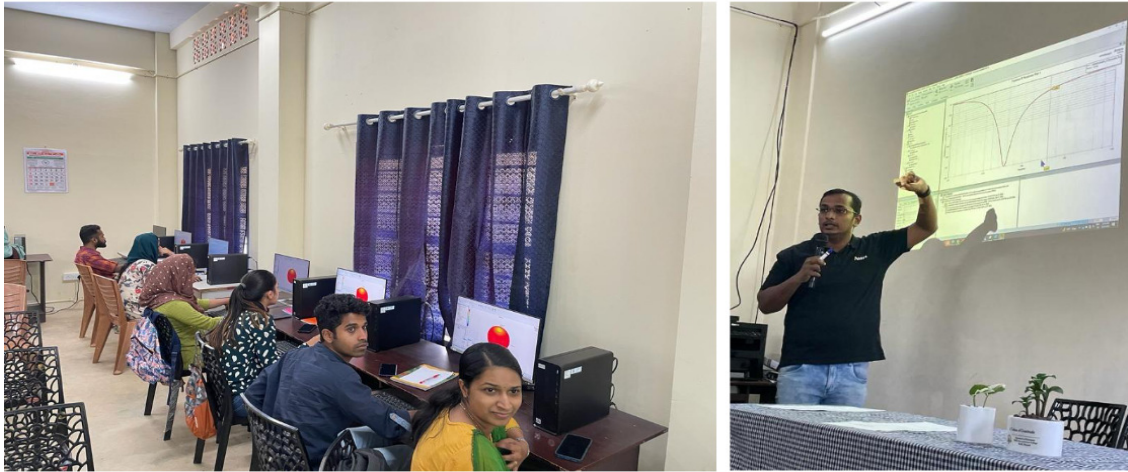


Figure 17: Intelligent Machine Lab

11. Physics computer Lab

Located within the Department of Physics, the college houses a third computer lab with 16 desktop computers. Equipped with LAN connectivity, all computers in this lab are installed with essential software. Students primarily utilize this lab for their curriculum-based courses, including computational physics and research projects.



Figure 18: Physics Computer Lab

12. Language Lab

The college features a dedicated Language Lab, which serves as an additional ICT facility. Equipped with listening and speaking devices, the lab provides students with access to a diverse range of training and practice programs, enhancing their language skills.



Figure 19: Language Lab

13. IQAC Office

The IQAC (Internal Quality Assurance Cell) office at the college is furnished with four computers and a printer-scanner system. This room serves as the central hub for managing all curriculum-based activities and initiatives within the college.



Figure 20: IQAC Office

14. Browsing Centre

The college library features a browsing centre comprising 17 computers. Students have complimentary internet access, and these computers are primarily used for browsing purposes by the students.



Figure 21: Browsing Centre

15. Smart classrooms

The college has a total of 8 smart boards, 27 projectors and 9 TV enabled classrooms divided among all the departments. The elaborate system makes it easy for students and faculty to use ICT facilities conveniently. Faculties use these technologies to enhance their teaching methods and students are also encouraged to use these systems for seminar presentations and project presentations.

Television enabled classrooms



Figure 22: Television Enabled Classroom

Projector enabled classrooms



Figure 23: Projector system enabled classroom

16. Seminar Halls

The college is equipped with three seminar halls, each featuring a sound system and projector setup. These seminar halls serve as versatile spaces utilized for a variety of purposes. They are extensively

used for departmental seminars, workshops, invited talks, college activities, fine arts competitions, and stages for various events. Additionally, external agencies often collaborate with the college and make use of these seminar halls for their programs and activities.

Seminar Hall 1



Figure 24: Seminar Hall 1

Seminar Hall 2



Figure 25: Seminar Hall 2

Seminar hall 3



Figure 26: Seminar Hall 3

17. Auditorium



Figure 27: Auditorium

The college proudly presents its newly constructed auditorium, complete with a spacious stage and state-of-the-art facilities. This long-awaited addition has fulfilled the dreams of the campus community, who have eagerly anticipated its arrival. The entire campus is filled with excitement as they eagerly await the grand opening of this remarkable facility.

18. Studio

As a result of the initiative taken by the Department of Mass Communication and Journalism, the college studio has become an active presence on social media, sharing artistic content and engaging videos. This fully equipped studio, complete with professional lighting and sound systems, has provided the campus with delightful and melodious evenings.



Figure 28: Studio Clicks

19. Stride office

The college's research program has been a standout feature, particularly due to the remarkable Stride funding and its activities over the past three years. The Stride office is well-equipped with computers and internet facilities, providing researchers with the necessary tools for their work.



Figure 29:IEDC Centre and Stride Office

20. Automated Systems

One of the standout features of the college is its automated IoT-based water management system, which has gained recognition for its effectiveness. This advanced system is designed to ensure zero wastage of water while promoting efficient utilization. The system includes a fully automatic pump controller with dry run protection, allowing for seamless operation. It offers easy source selection through a user-friendly web interface, providing control and monitoring capabilities. Users can access a simple web application to monitor various aspects of the system, including water level indication, pump ON/OFF status, error indication, and source selection. The water management system incorporates high-quality industrial-grade

water level sensors, which eliminate the risks of sedimentation, rust, or any adverse reactions with water, ensuring accurate and reliable readings.

In addition to its water management practices, the college demonstrates a commitment to sustainability through various eco-friendly initiatives. One notable example is the implementation of an automated solar LDR streetlight system. By harnessing solar energy, the college reduces its carbon footprint and promotes energy efficiency. Furthermore, the college has introduced an automated bell and announcement system, featuring speakers installed in all classrooms. This technology enhances communication efficiency, ensuring important announcements and information reach all students and faculty members effectively. These sustainable and tech-driven initiatives reflect the college's dedication to creating an eco-friendly and technologically advanced learning environment.

Water management system

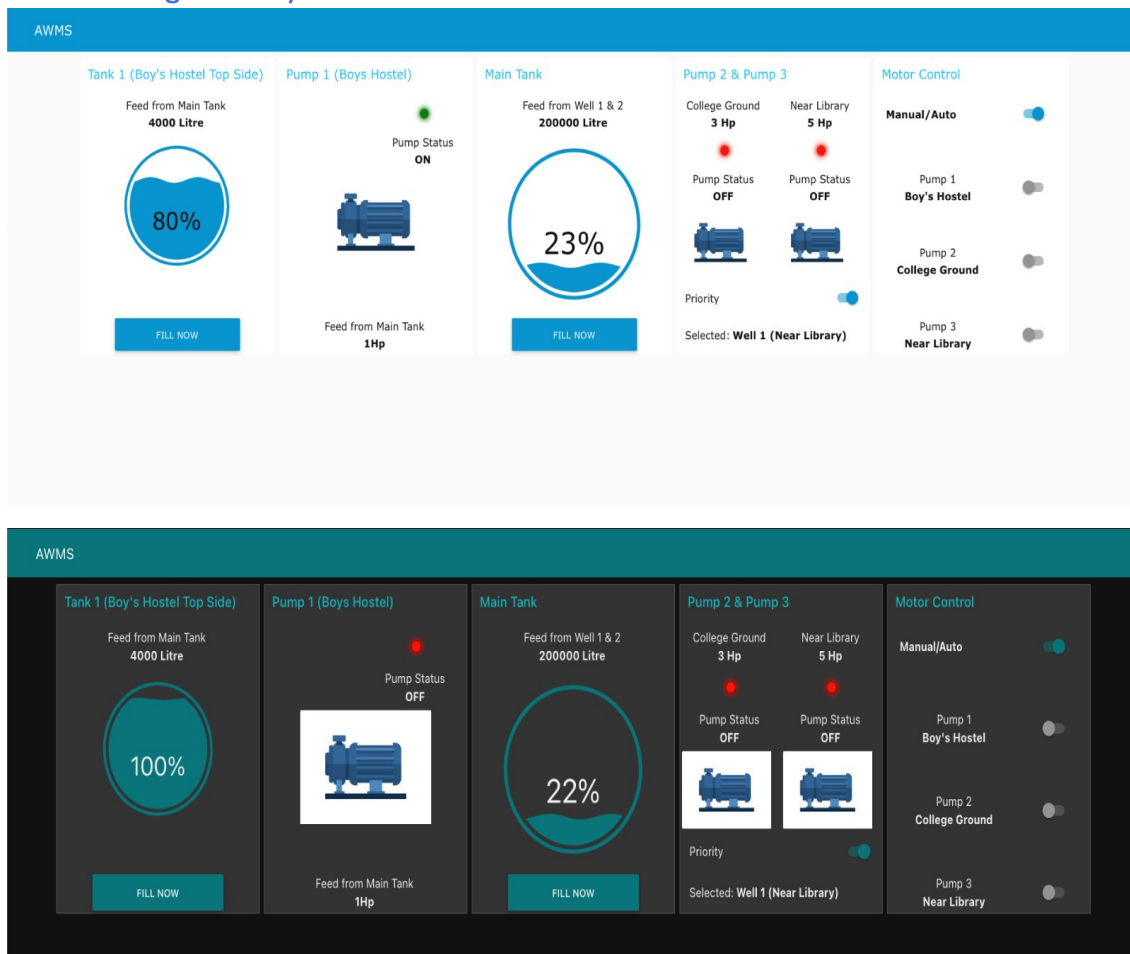


Figure 30: Water Management System Monitor

Bell and announcement system

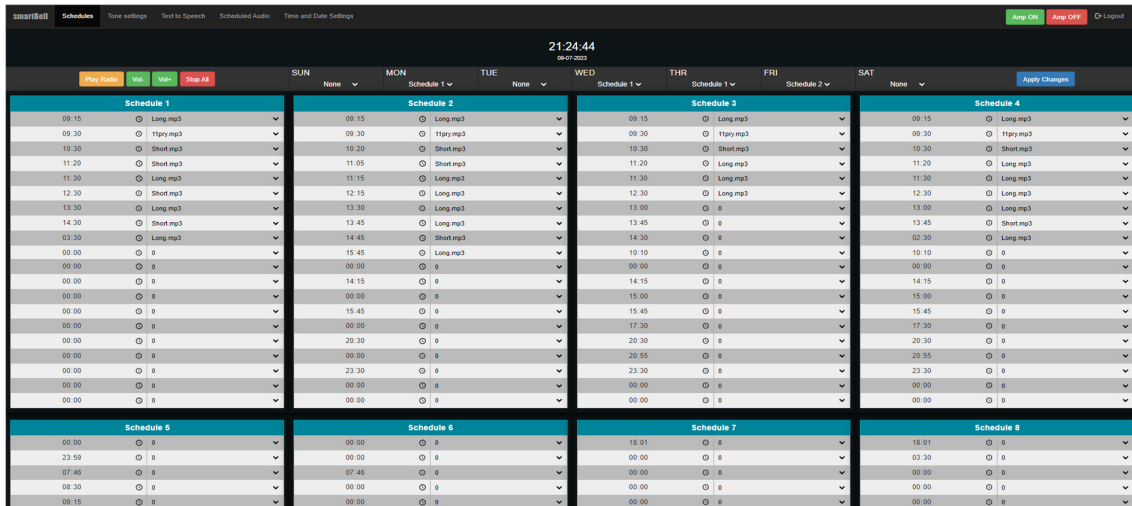
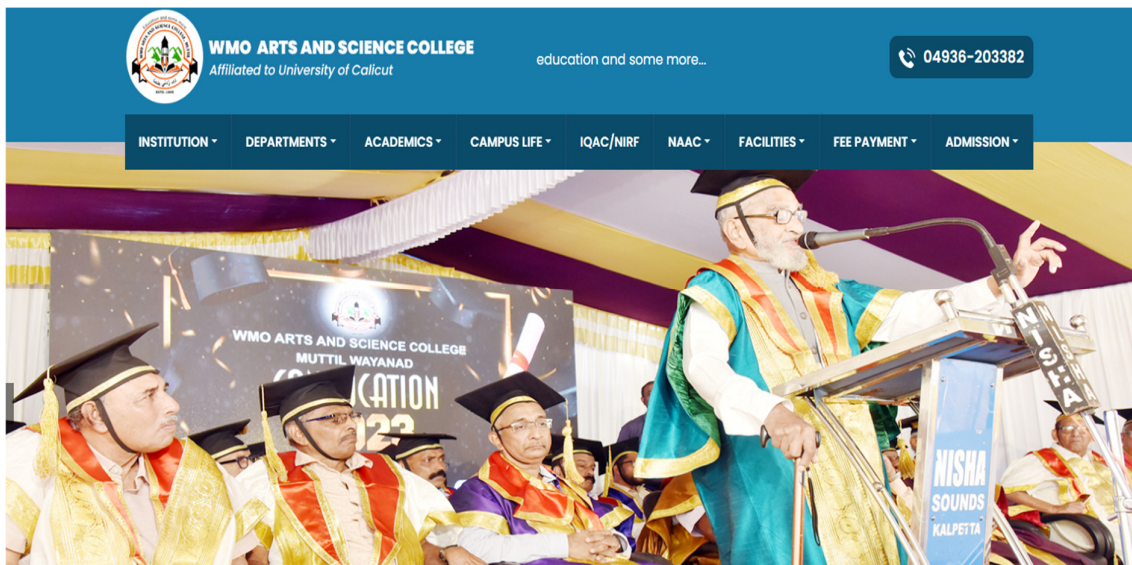


Figure 31: Bell System


Streetlight system

21. College Website

The college website is continuously evolving, offering a comprehensive range of information about the college, its various departments, and the programs they offer. The website's gallery provides a visual overview of the college's vibrant atmosphere. In addition to general information, the website features details about the faculty members, programs and activities, admission-related matters, and available facilities.




PRINCIPAL MESSAGE



I am greatly rejoiced and proudly manifest the fact that the drastic transition of WMO Arts and Science College from a small college into a reputed and prestigious institution in the Wayanad district.

Dr. T.P. Muhammad Fareed
Principal


[Know More](#)



WMO Arts and Science College is a premier higher educational institution situated in Wayanad, in the midst of beautiful Western Ghats. It is affiliated to the University of Calicut with 11 Undergraduate Programmes and 8 Postgraduate programmes.

The college was accredited with grade A and grade point 3.12 in the second cycle of accreditation (2013-18). Currently, we are working on the third cycle of accreditation.

MANAGER MESSAGE




We are proud and joyful to be part of this esteemed institution, which is shaping modern India. In its journey of endeavor and fidelity, WMO marked its own space in the public domain of society.

Mr. M.A. Mohammed Jamal
Gen: Secretary & Manager

[Know More](#)

HOME ALUMINI CAREER NEWS GALLERY - E-LEARNING CONTACT US RTI LOGIN - [SELECT LANGUAGE](#)



WMO ARTS AND SCIENCE COLLEGE
Affiliated to University of Calicut

education and some more...

04936-203382

INSTITUTION -
DEPARTMENTS -
ACADEMICS -
CAMPUS LIFE -
IQAC/NIRF
NAAC -
FACILITIES -
FEE PAYMENT -
ADMISSION -

- History
- Vision & Mission
- Management Committee
- College Council
- Administrative Staff
- Succession list of Principals
- Achievements

- Downloads
- Publications
- Virtual Classroom
- Annual reports

ANNUAL REPORTS

	Events	Download
	ANNUAL REPORT 2022-23	View
	ANNUAL REPORT 2021-22	View
	ANNUAL REPORT 2020-21	View
04	ANNUAL REPORT 2019-20	View
05	ANNUAL REPORT 2018-19	View
06	ANNUAL REPORT 2017-18	View

Figure 32: College Website

22. Official YouTube Channel

The college takes pride in its dedicated official YouTube channel. Additionally, numerous departments and faculties actively create YouTube content for both educational and non-educational purposes, often posting them on their respective department channels or personal channels. Over the past five years, the college has impressively produced over 1100 YouTube videos. In response to the pandemic situation, faculty members swiftly adapted by producing lecture videos and promptly sharing them online. These videos served as invaluable study materials for students, enabling them to seamlessly adapt to the new learning environment.

YOUTUBE VIDEOS CREATED BY FACULTY MEMBERS ON TEACHING LEARNING				
Sl. No	Name of The Faculty	Department	Count	Link - Youtube & Teachmint
1	Dr.Biju KG	Physics	69	https://youtube.com/@bijukoonammakkilgeorge4082
2	Anu Ann Varghese	Mass communication	24	https://youtu.be/4rDhJ52Ryy8 https://www.teachmint.com/tfile/lectures/b-com/prandcorporatecommunication/lecture2021-09-06/b8f04117-7dac-4878-a5ad-249c5b4d8bd3
3	Aswin P	Mass communication	31	https://youtu.be/n1pVL11BN2E https://www.teachmint.com/tfile/lectures/cinema/v-semester/lecture2022-02-01/0d2f06d4-3155-4a73-a804-a1b122315abf
4	Siby Joseph	Electronics	29	https://www.youtube.com/watch?v=e-QYPkB5ab4
5	Dr.Viji Paul	Mathematics	22	https://youtu.be/gnwUXXoteeg
6	Dr.Sirajudheen K K	Physics	8	https://youtu.be/d7p5R7aiuRl
7	Nidhin soman p	Physics	92	https://youtu.be/wnwNr-O8Mo0
8	Praveen Mathew	Commerce	42	https://youtu.be/On9SIsedxD8
9	MAHMOOD ASLAM K	Commerce	30	https://youtu.be/mlvWAWuMKCNw
10	ASWATHI K	Mathematics	67	https://www.youtube.com/@achususeela8964
11	ASIL.K	Arabic	17	https://youtu.be/TDtAou35G_c https://www.teachmint.com/tfile/lectures/b-com/commercialarabic/lecture2021-07-09/6b7dc5da-3f78-4dbd-b9a6-a5bf0d5bf39a
12	Dr.Thomas thevara	Chemistry	42	https://www.youtube.com/@thomasthevara9971/videos
13	Shabeerali P	Commerce	124	https://www.youtube.com/@shabeeralipulikkalakath6230/videos
14	Sidhique TS	English	4	https://www.youtube.com/@smskills288/videos
15	Dr.Nobert Thomas Pallath	Electronics	76	https://www.youtube.com/@dr.nobertthomaspallath2832/streams
16	Dr. KK Hamsa	Statistics	93	https://www.youtube.com/@hamsakandankulanga8360/videos
17	SanthoshKumar C G	Mathematics	33	https://www.youtube.com/@SanthoshKumar-hw6ih

18	Thahira T A	Mathematics	206	https://youtube.com/@thahirata6151
19	Rubeena P	Economics	15	https://www.teachmint.com/tfile/lectures/class-4th/politicalscience/lecture2022-06-29/61710181-24ad-4724-a331-bec12d385354
18	Abbas Wafy	Arabic	49	https://www.teachmint.com/tfile/lectures/b-com/grammar/lecture2021-08-13/2232a80f-0e48-4889-a902-651953ff1e1c
19	Danish Nizar	English	54	https://www.youtube.com/@learnwithdanish9951/videos
20	Abdul Nizar & Team MSW	MSW	10	https://youtube.com/@socialworkwmocmuttil9983
TO TA L			1137	

WMO College Official
 @WMOCollegeOfficial 2 subscribers 1 video
 More about this channel >

HOME VIDEOS PLAYLISTS CHANNELS ABOUT

Uploads

WMO COLLEGE CONVOCATION HIGHLIGHTS
 24 views • 3 months ago
 About the College WMO Arts and Science College, affiliated with the University of Calicut, is bestowed with the beauty of nature due to its location in the vicinity of Western Ghats. The multi-dis...

Photo Journalism.
 Module I
 History Of Photography
 Role of Photography in Communication
 World famous photographer profiles

1:21 / 5:45

Photo Journalism module introduction- Mass com dept WMO college Wayanad (Online class)

Figure 33: Youtube Lecture and Channel

23. Exam Cell

In response to the COVID-19 pandemic, the university has implemented a new system wherein final exam question papers are electronically transmitted to the respective colleges. The colleges are then responsible for printing the required copies of the question papers for the examinations. This innovative approach has significantly enhanced the efficiency and cost-effectiveness of the examination procedure. The college has established a fully equipped exam cell, complete with advanced Xerox machines and computers, to facilitate the seamless printing and distribution of the question papers. This streamlined process has reduced the administrative burden and made the examination process hassle-free.



Figure 34: Exam Cell

24. CCTV System

The college's CCTV system is composed of 49 high-quality cameras that capture both images and videos. This extensive system provides coverage across a wide range of areas within the college premises.

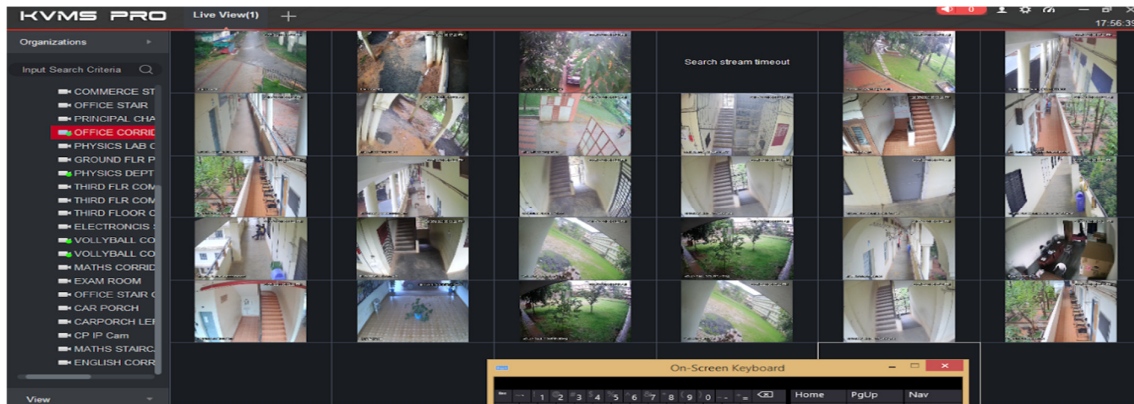


Figure 35: CCTV System Monitoring

25. Reprographic Centre

