Bahona College ICT Facilities

IT Infrastructure at Bahona College:

The college has well-established mechanism for upgrading and deploying information technology (IT) infrastructure. The college allocates budget for annual maintenance on the basis of the need and number of the students as well as teachers. For maintaining the hardware and the IT infrastructure of the campus, technical staff is outsourced. The institution updates the IT facilities frequently through various systems. 11 classrooms and 2 seminar halls are equipped with ICT facilities whereas whole campus has Wi-Fi internet coverage. Notably, two smart interactive boards are regularly used by the faculty members as teaching aid. To promote minimal use of papers, electronic communication in terms of email and WhatsApp has been prioritised. The institute has access to subscribed GSUIT/ Google Workspace for institutional email (suffixed as @bahonacollege.edu.in) & cloud storage services. The Departments also make use of Google Classrooms, Youtube, Zoom, GMeet, Teachmint, Webex etc. for lecture notes sharing and online classes. Financial activities are transformed to digital forms following Digital India initiative. All the housekeeping activities in the library including cataloguing, accessioning and circulation have been computerized.

In the library, updated versions of windows, library management software- koha, bar code scanner, thermal printer, bar code attendance facility are used. The attendances of the employees are collected via state-of-the art biometric scanner. The network connected computers are protected by antiviruses. Moreover, the college hires computer technician and service providers for any disorder or damage on basis of the need. The institution takes utmost care for up keeping and replacement of the IT tools whenever necessary. In addition to it, the activities such as installation of anti-virus periodically, formatting of computers in case of corrupt operating systems, replacing hardware of old computers as well as new computers are undertaken yearly and come under Annual Maintenance Cost (AMC).

The Wi-Fi facility is free of cost for all teachers, students and stakeholders of the College. In addition to the Wi-Fi facility, the college provides 6 internet connecting devices (Jio-Fi) as an additional tool for maintaining IT infrastructure of college. The college website is regularly updated by the webmaster whereas the faculty members & departments update their respective parts in the websites regularly for information sharing. The programming & network management of the website is handled by the Corexx- a software company. Besides, the college has an open access research journal named 'Journal of Intellectuals' with an updated cloud storage facility provided by the Corexx. Every faculty, department and cells have been assigned Google accounts for smooth information sharing. The college also has

an up to date user-friendly online admission portal embedded in the website. All relevant data of the bona-fide students are electronically stored. Besides, the college has an outsourced user-friendly online feedback mechanism for the students, teachers, alumni, and parents to evaluate programme & course outcomes.

Use of ICT enabled tools in Classroom

The College is equipped with state-of-the-art Information and Communication Technologies [ICT]. In order to align the curriculum delivered with the changes ushered in by the global digital revolution, and to equip students with an increasingly technology-dependent world, the college encourages liberal use of ICT in the teaching learning process. This comprises of-

- Classroom instructions are regularly conducted by using visual aids such as LCD Projectors and Smartboards. This allows the teaching-learning process to be more visual, smoother, more comprehensible, less time-consuming, and easier to absorb for learners. It also decreases the use of health hazards such as chalks and blackboards. At the same time, it reduced the usage of paper.
- During the lockdown(s) induced by the Covid-19 pandemic, online classes by using multiple platforms were successfully adopted by the college. In the aftermath of the lockdown, online class as a practice has been retained, and has been successfully incorporated with offline classes for a hybrid mode of instruction. The remote nature of online classes has been able to address the learning barriers in terms of location-based disadvantages. Online classes also allow the faculty to customise efficient and time-saving attendance-taking mechanisms.
- The faculty of the college have also started adopting online submission of assignments and online tests. This has allowed an efficient management of the evaluation process, efficient and safe storage of all relevant data at one location, and has reduced the usage of paper significantly. The use of creative methods in online submission of assignments has also allowed the students to tap their full potential by using innovative means.
- The regular use of Emails, Cloud Storage, and instant messaging platforms have made communication easier between the faculty and the students. By using these, the faculty can easily disseminate relevant information and distribute learning materials to the students. The ease of use of these methods have also allowed the use of a diverse range of learning materials previously not feasible. The use of instant messaging also has allowed the students to remain in constant contact with the faculty for regular guidance. This has also increased group communication within the students for a more productive learning experience.

- A certain number of faculty members have also been instrumental in developing e-learning content for the students. These content, uploaded to slide-sharing platforms and video streaming websites, are of immense importance to students to complement their classroom instructions.
- The college is in the process of transforming its official website to a learning centre where all the information relevant to curricular and extra-curricular activities shall be collated in a centralised repository.
- The college also regularly uses ICT for meetings, events, seminars, counselling and awareness programmes for students. On one hand, these allow students at different locations to come together. On the other hand, it exposes the students to expertise of resource persons invited for the event in a remote manner, which otherwise may not have been possible to the logistical constraints of an offline setting.

ICT equipped Library of Bahona College:

Bahona College has a central library and 12 departmental libraries. The central Library of the college is fully automated with Koha ILMS and Barcode technology. It has 33088 printed books and subscription of 6 printed journals, 8 newspapers and 10 magazines. It has 1147 reference books for its users and a good collection of rare books. The bookshelves are arranged department wise and books are arranged subject-wise. Library has a collection of Minor and Major Research Project Reports, PhD Thesis and College Magazines. Library conducts stock verification process in every 2 years. Bahona College library has a reading room with 50+ seating capacity for the library users. There is a separate reading area for the faculty members of the college. The files relevant to library and library services are well maintained and labeled for easy access to any of the library staff. Library is open from 10:00 AM to 4:00 PM in all working days. Degree students can borrow 3 books for 14 days, faculties can borrow 6 books for 180 days and other staffs can borrow 5 books for 90 days. There is a library advisory committee and the committee takes important decisions related to the library. The library purchases new books as per the requisition given by the faculty members and students. Library also has a purchase suggestion register where library users can suggest books to be purchased. All the new books and journals are kept in the new arrival section for 15 days or till the arrival of the next lot of new arrivals. Library orientation program is carried out for new students in which details about the library collection, services, timing and doubts of students if any are cleared. All the old and damaged books have been weeded out every year and kept in Old/Weeded section in the library. Bahona College has automated itself by adopting several measures like

ILMS in the Library: Bahona College Library used SOUL 2.0 ILMS from 2009 till 2021 December and switched to Koha ILMS from 2022 January and has Barcode technology.

Barcode Attendance: Barcode based attendance system for both students and staffs are placed in the library entrance to know the number of users visiting in the library.

Searching and Cataloguing: Since the library is fully automated, the holdings of the library can be searched using OPAC (Online Public Access Catalogue).

Digital Library: Bahona College library has a separate digital library section. 5 computers are installed in the library and all are connected with internet. There is a separate login register for the digital library section.

WiFi based Library: Bahona College library is WiFi based library. Library users can use the WiFi service in the reading hall and in the digital library section.

Membership of E-Contents: Bahona College Library is a member of the NLIST and also a club member of NDLI. The library has internet facility through which the E-resources can be accessed. The users can access 199500+ E-books and 6000+E-journals available in the NLIST databaseand 6,00,000 E-books through NDLI.

WhatsApp based circulation: Students of Bahona College are connected with the library through 2 WhatsApp Groups. All important information, notices, new arrival of books etc. are shared in those groups.

Online Book Requisition System: Students and teachers can request or suggest book purchase using WhatsApp, email service or may fill in and submit book requisition form.

Online Booking: In every fortnight, library shares photographs of 15 randomly selected books for teacher. Teachers may book their books just by sending a message in the group.

QR Code based service: Library provides online Old Question Paper access facility to its users by using QR code.

ID card Printing and other Services: The library prints College ID cum Library Card for all the stakeholders of Bahona College using college web portal. Reprographic facility is also available for the library users. The college library is under CCTV surveillance.

Every year books exhibition has been conducted by the library where students purchase books. Bahona College Library also conducts workshops, training program for library professionals.

YouTube Link of ICT Classes:
https://www.youtube.com/watch?v=r6ZmFYni_Uo

Few Photographs of ICT Facilities at Bahona College

ICT Enabled Tools are Regularly Deployed in the Teaching-learning Process During Offline Classes


Dept of Botany

Dept of Botany

Dept of Botany

Dept of Botany
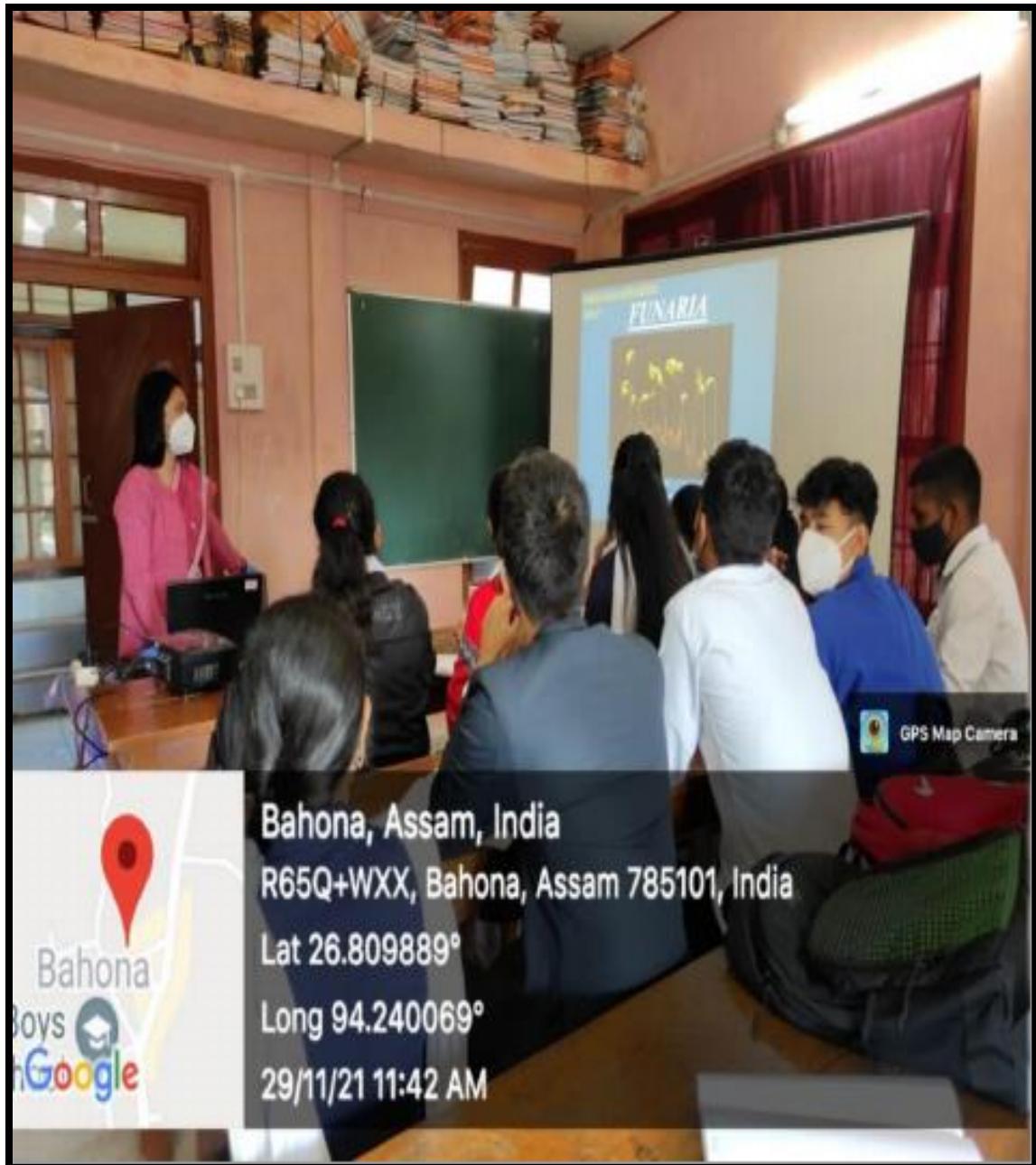
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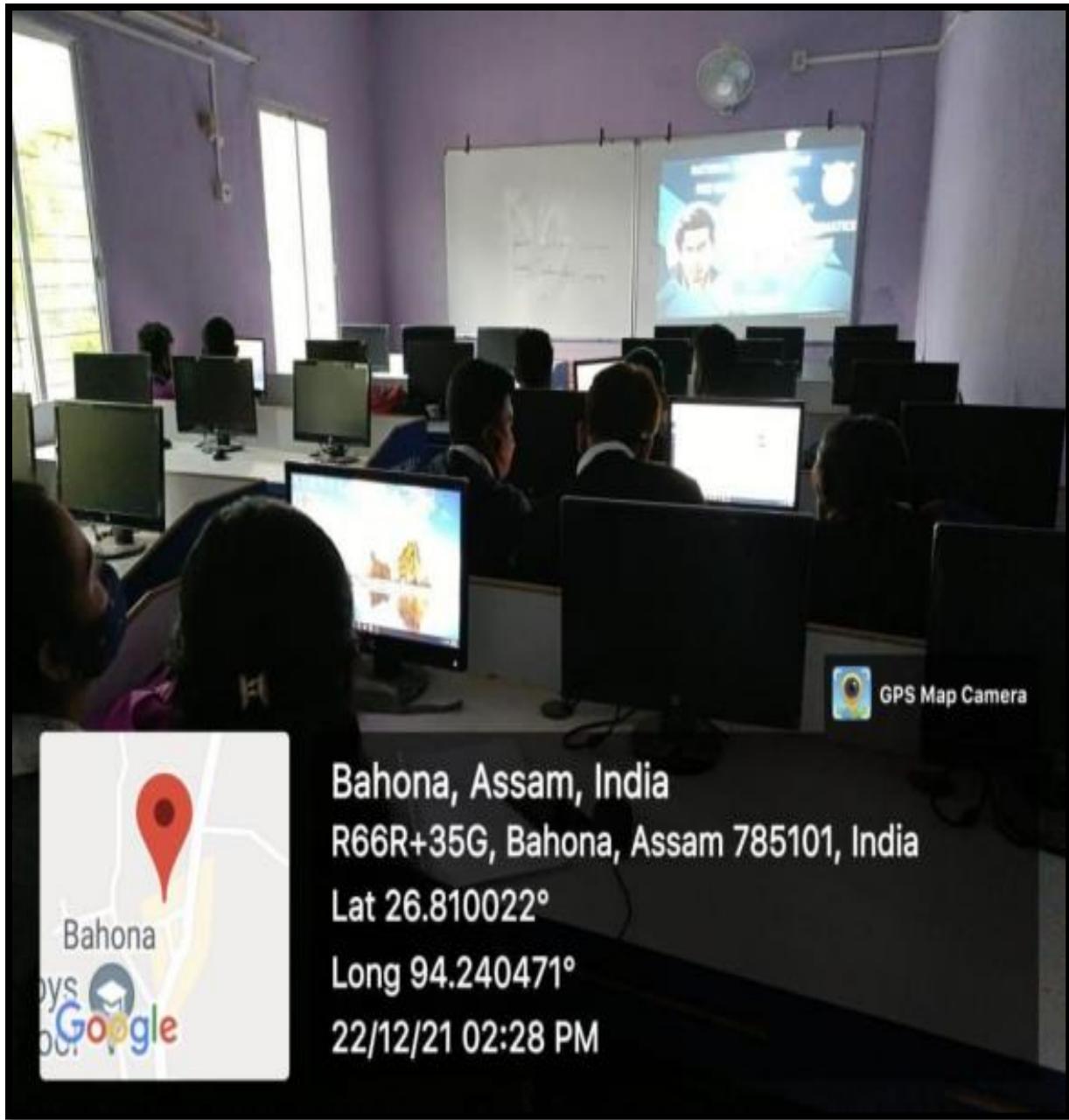
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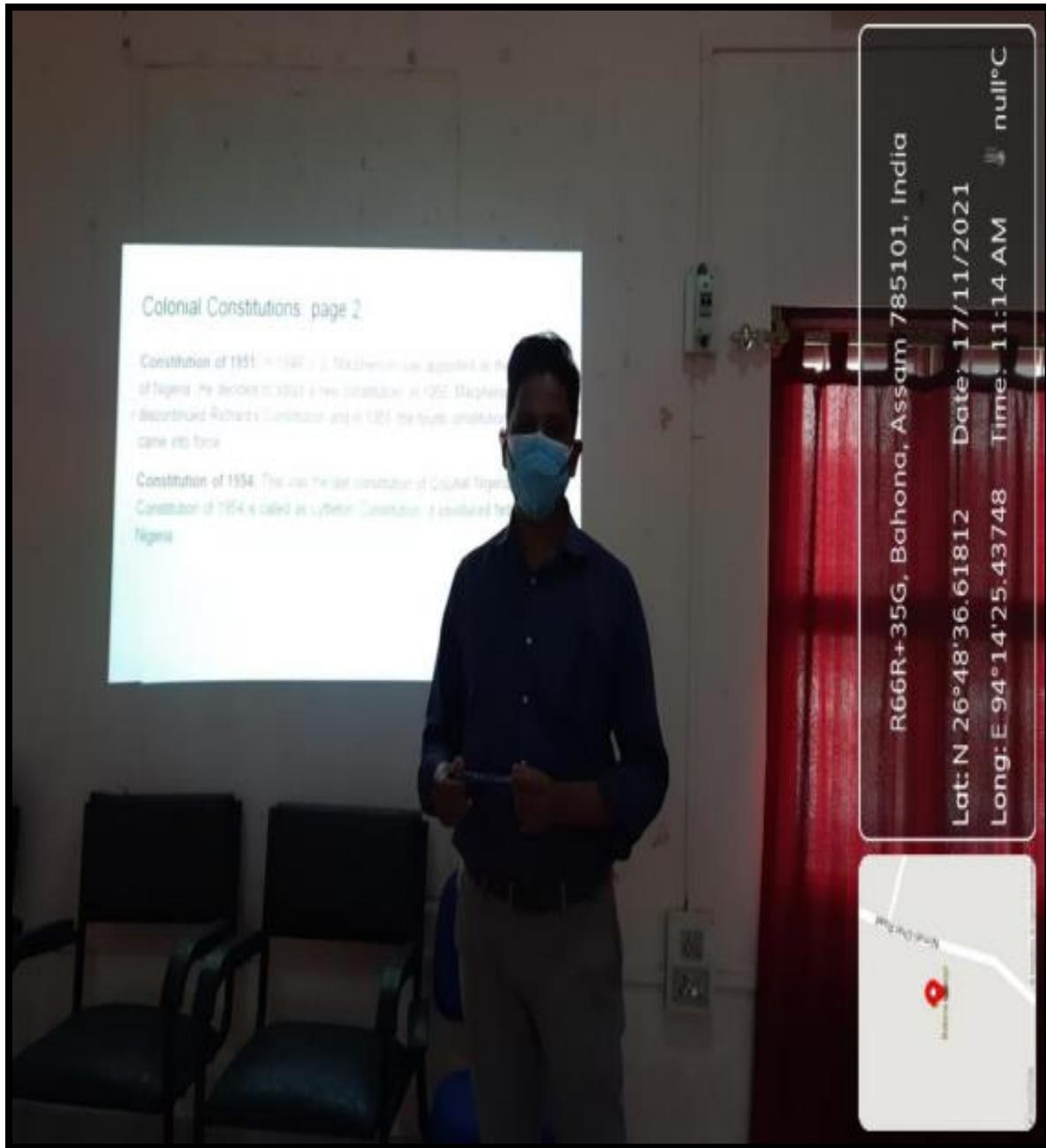
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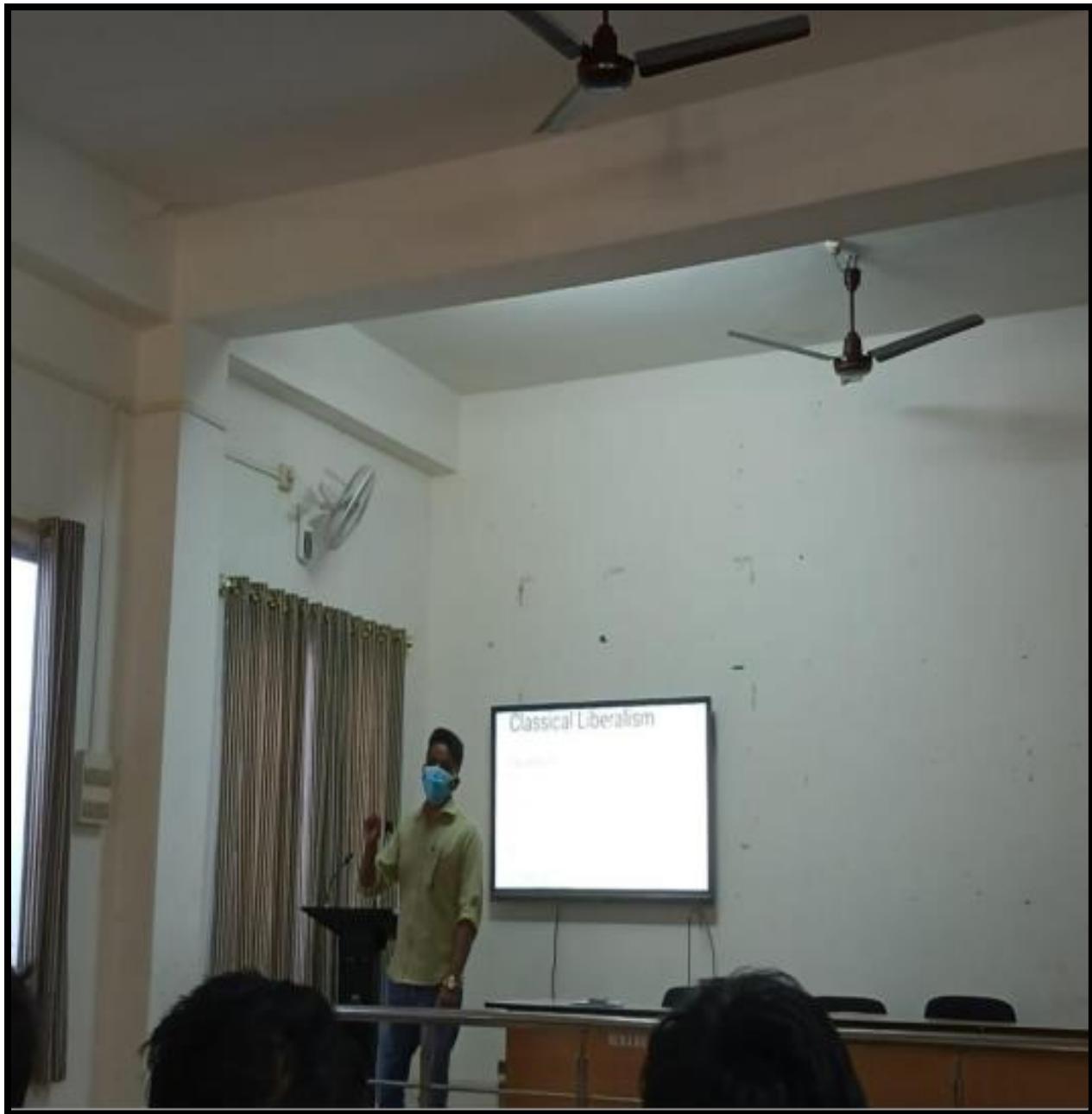
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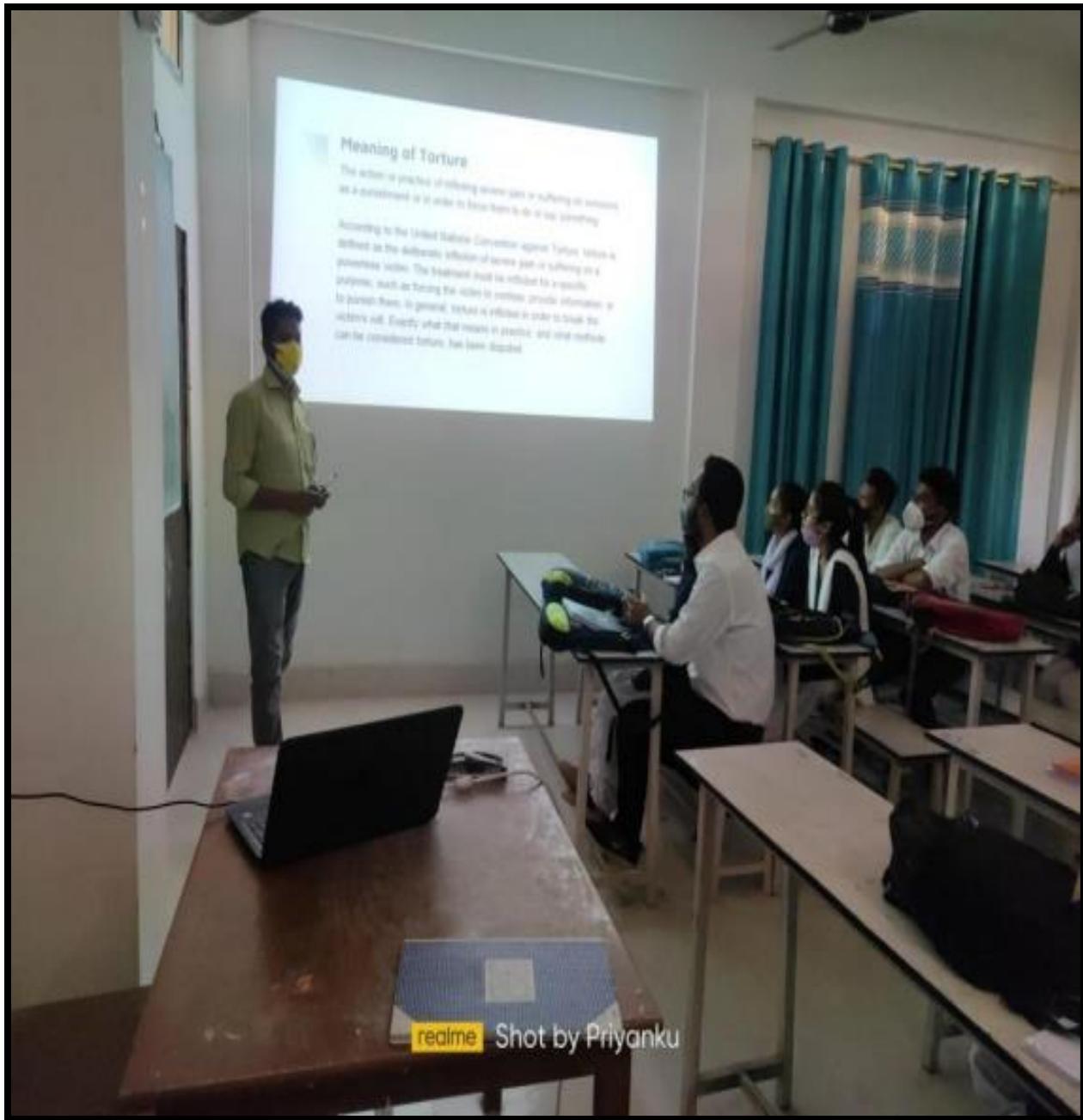
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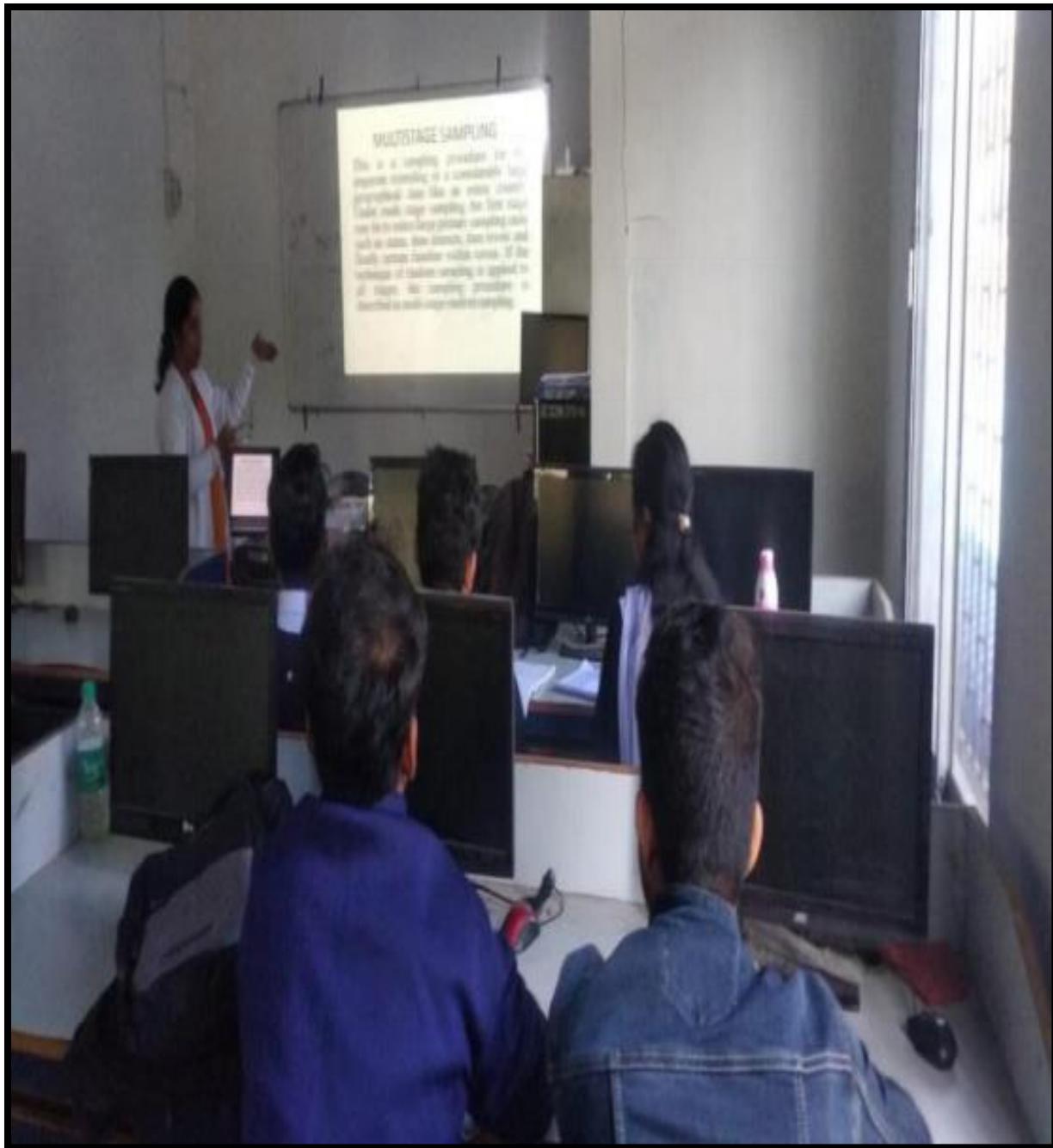
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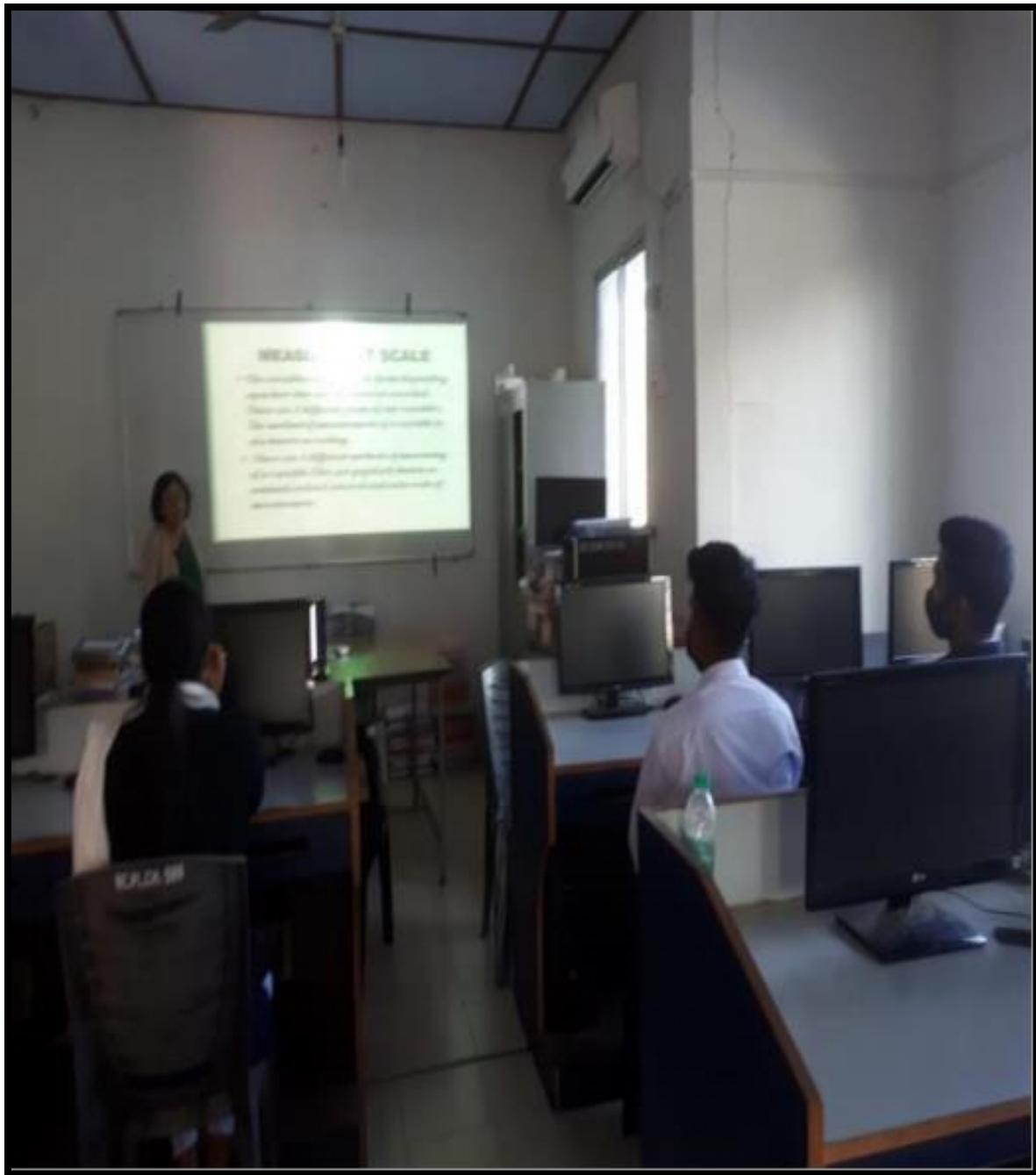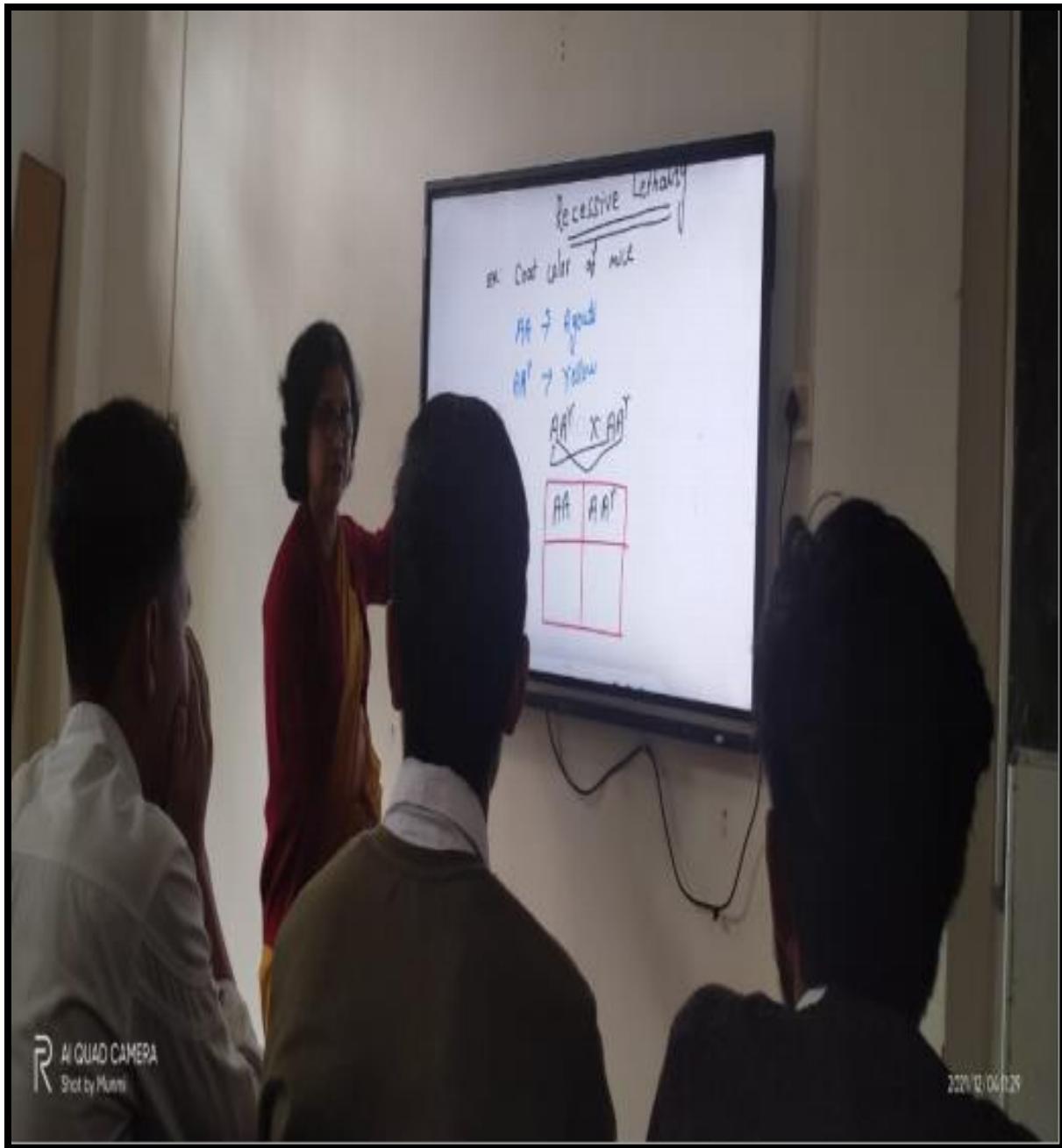
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Dept of Statistics

Dept of Zoology
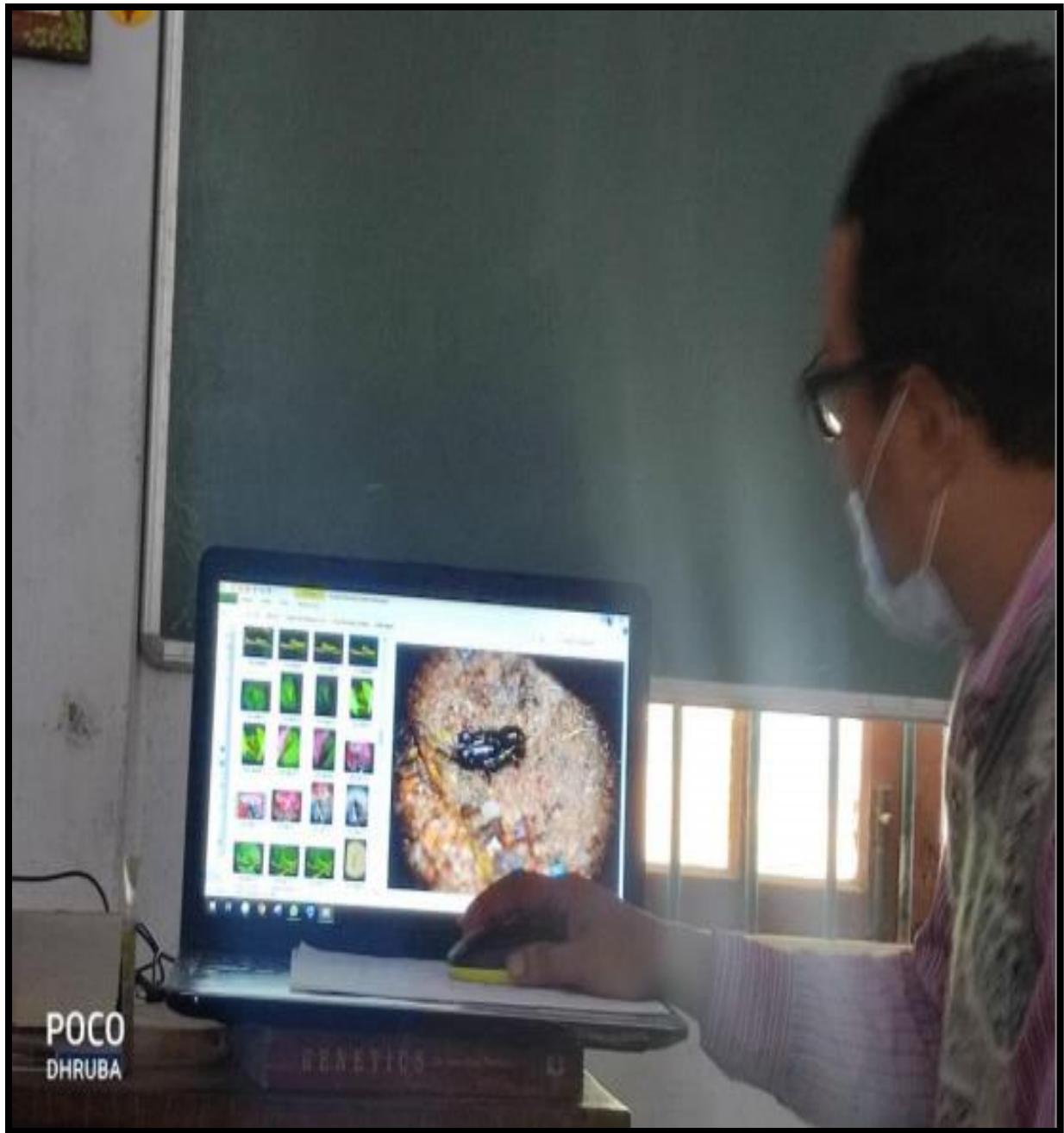
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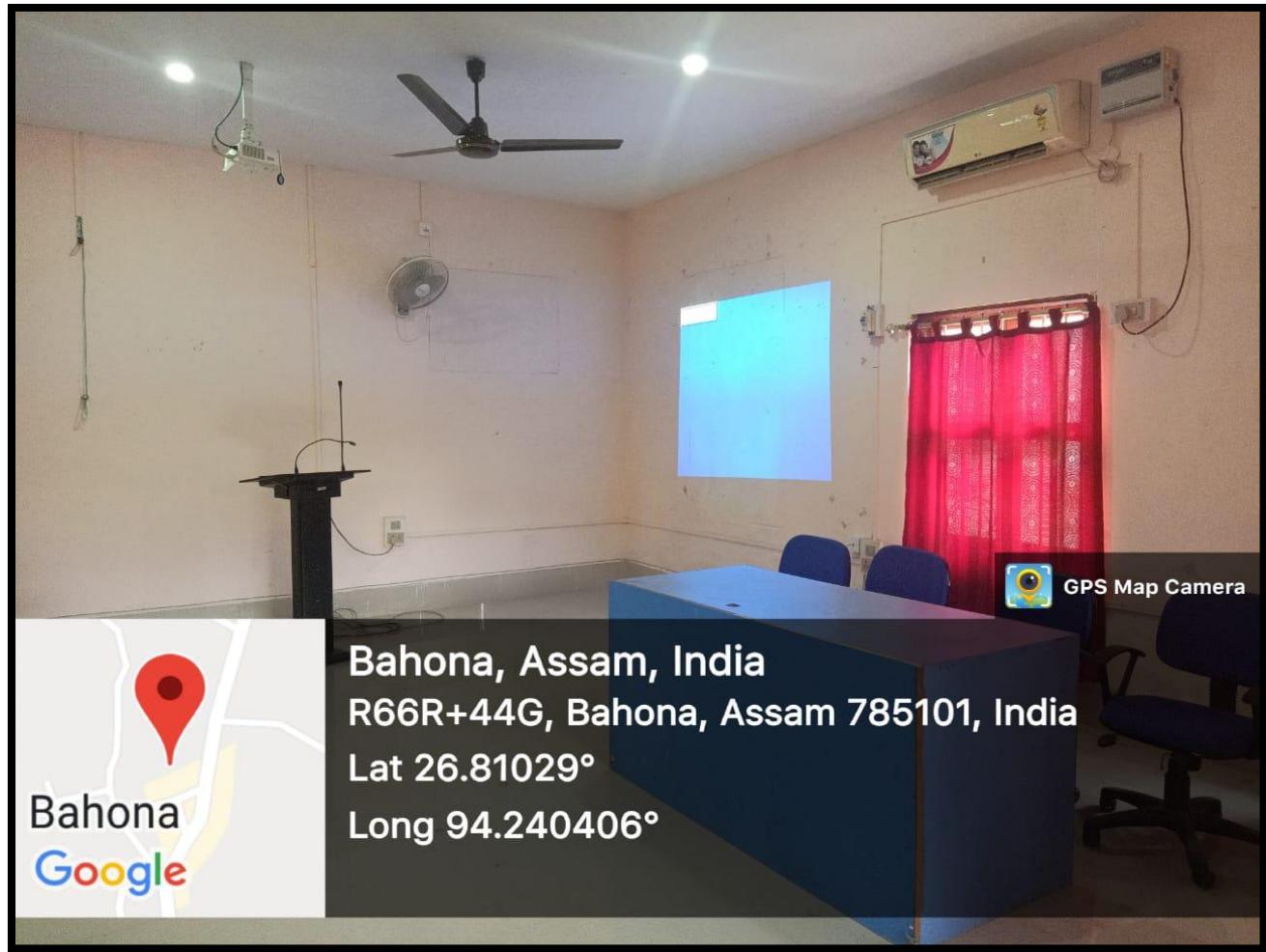
ICT Enabled Conference Room

ICT Enabled Class Room

ICT Enabled Class Room

ICT Enabled Class Room

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Long 94.240143°

GPS Map Camera
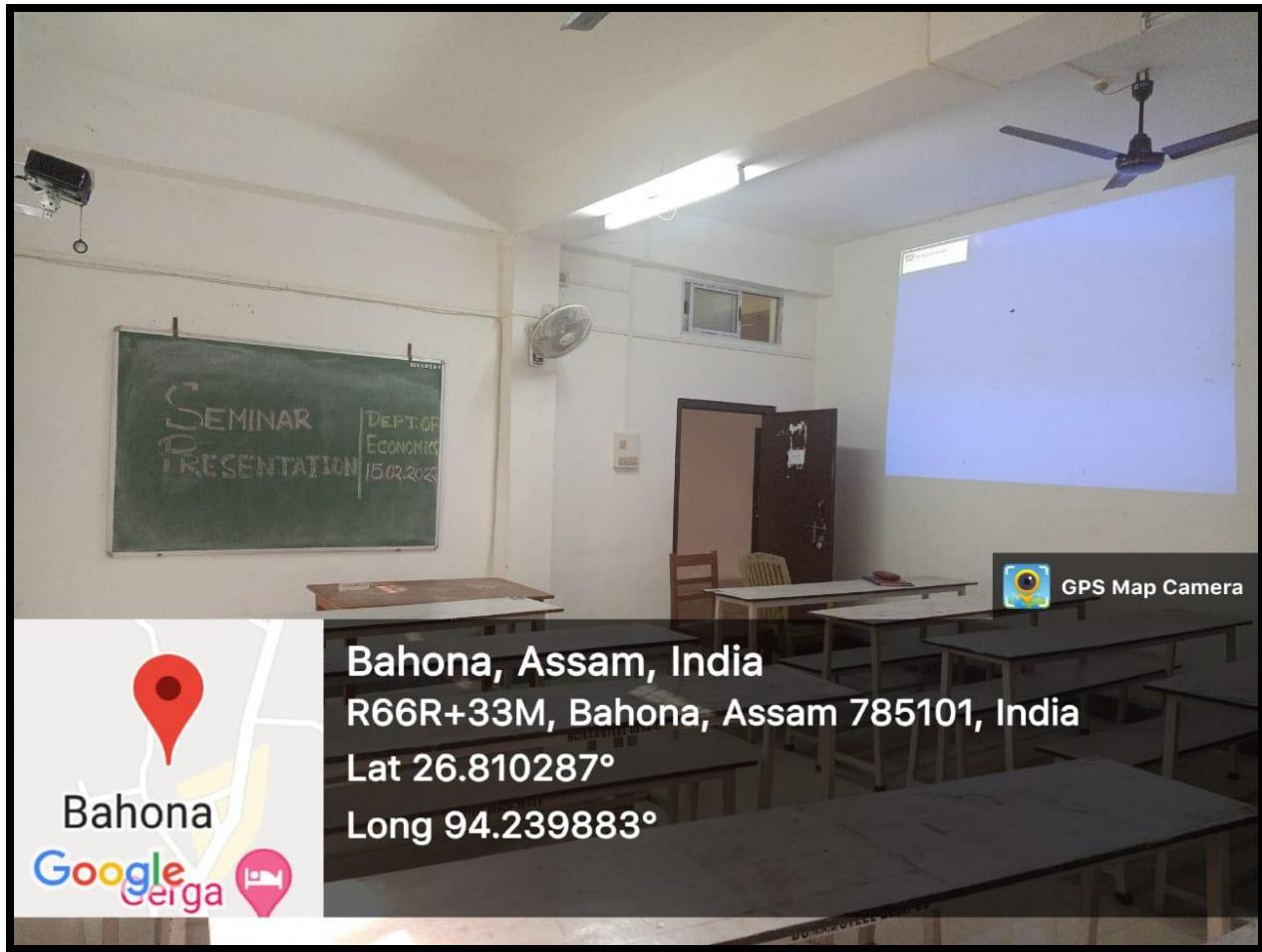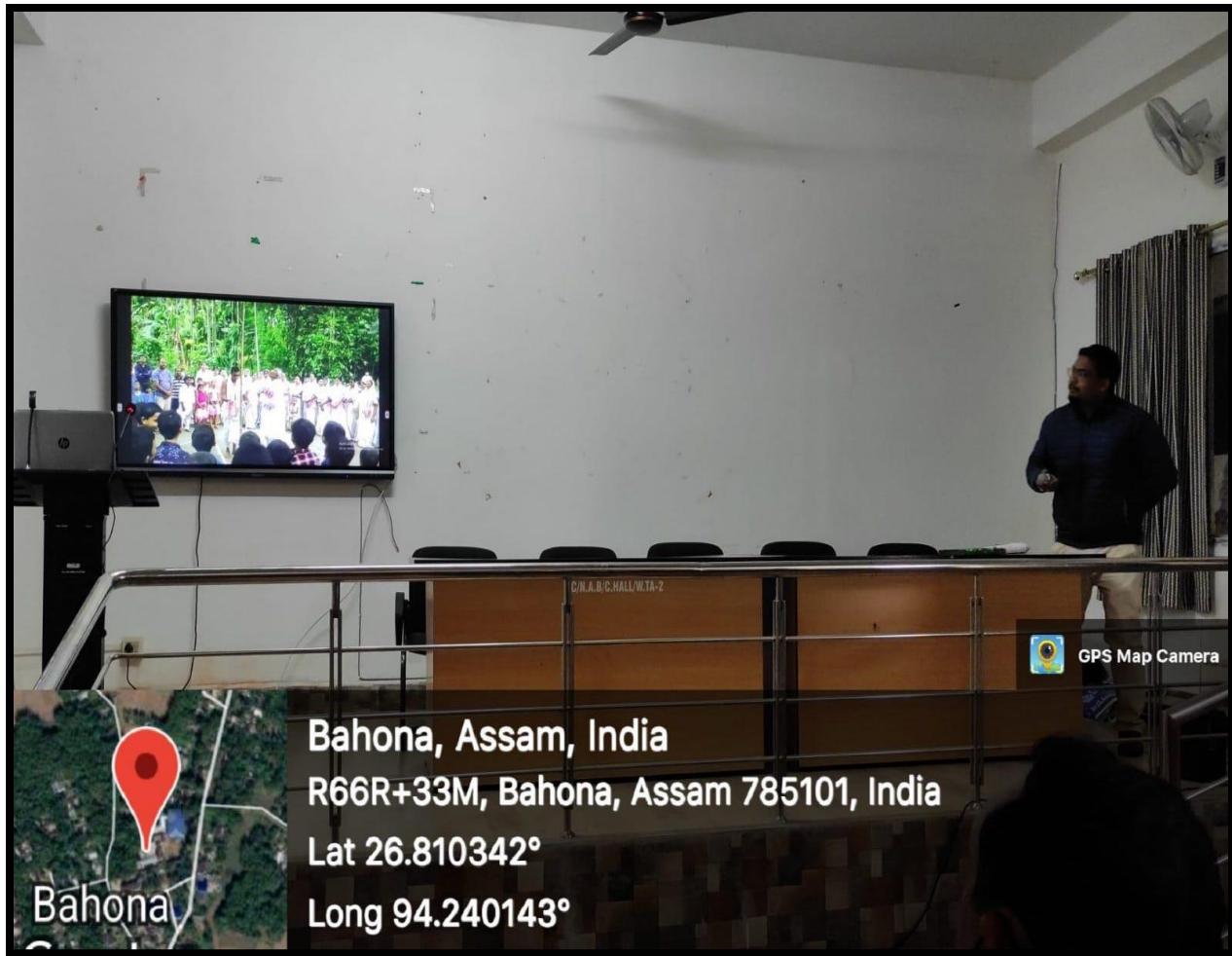
ICT Enabled Conference Hall

Computer LAB

Digital Library Section
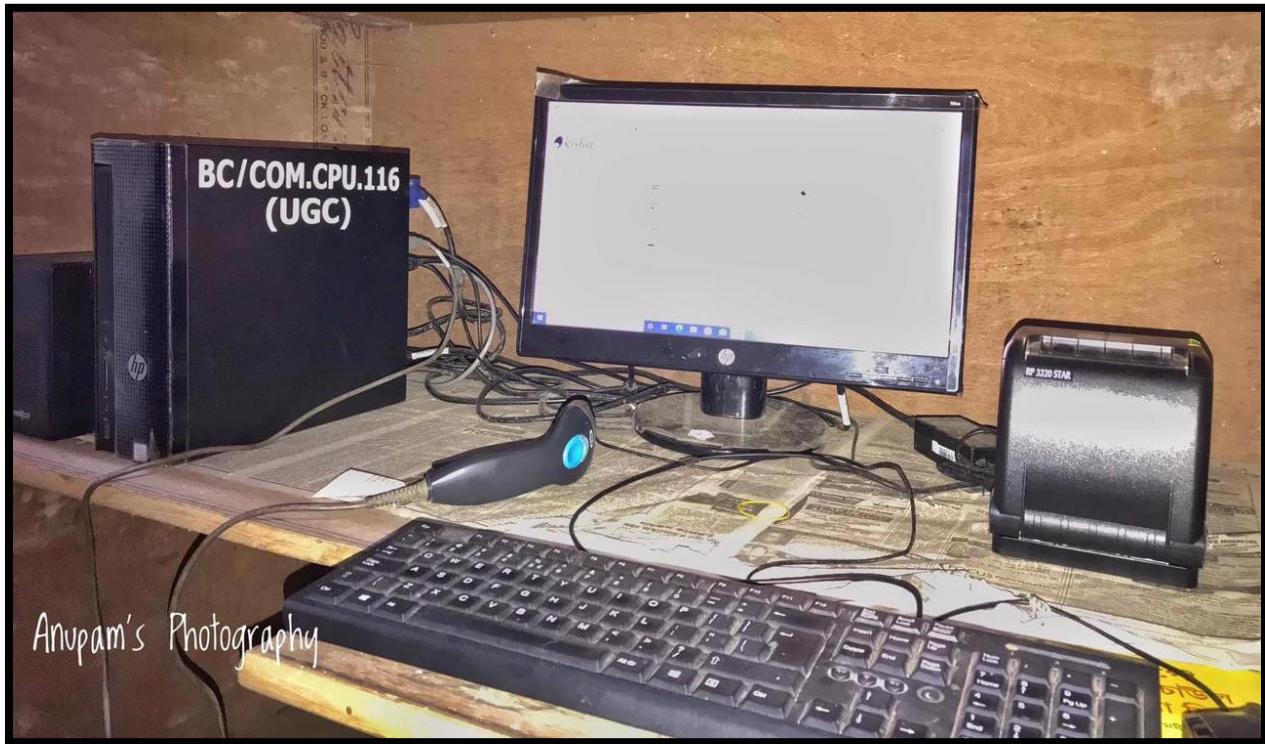

Circulation Section PC
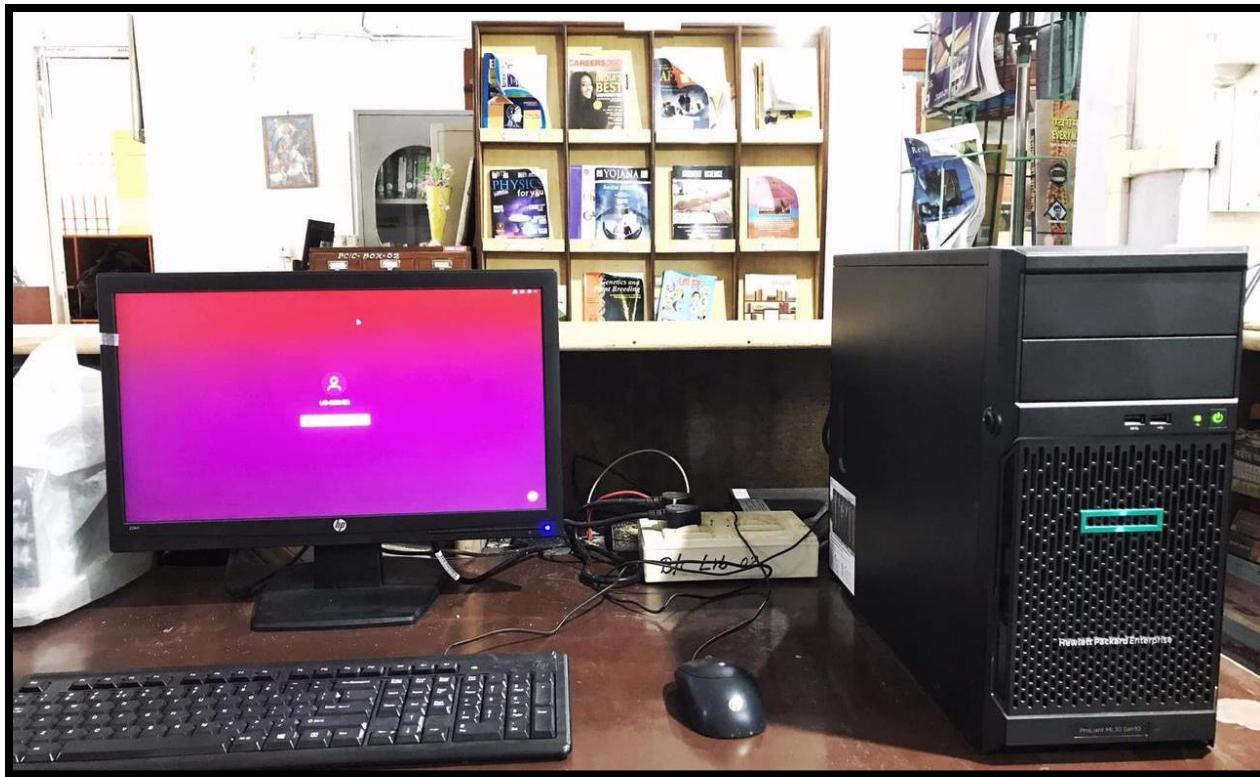
Koha ILMS Server


Koha ILMS Interface

Scanner and ID Card Printer
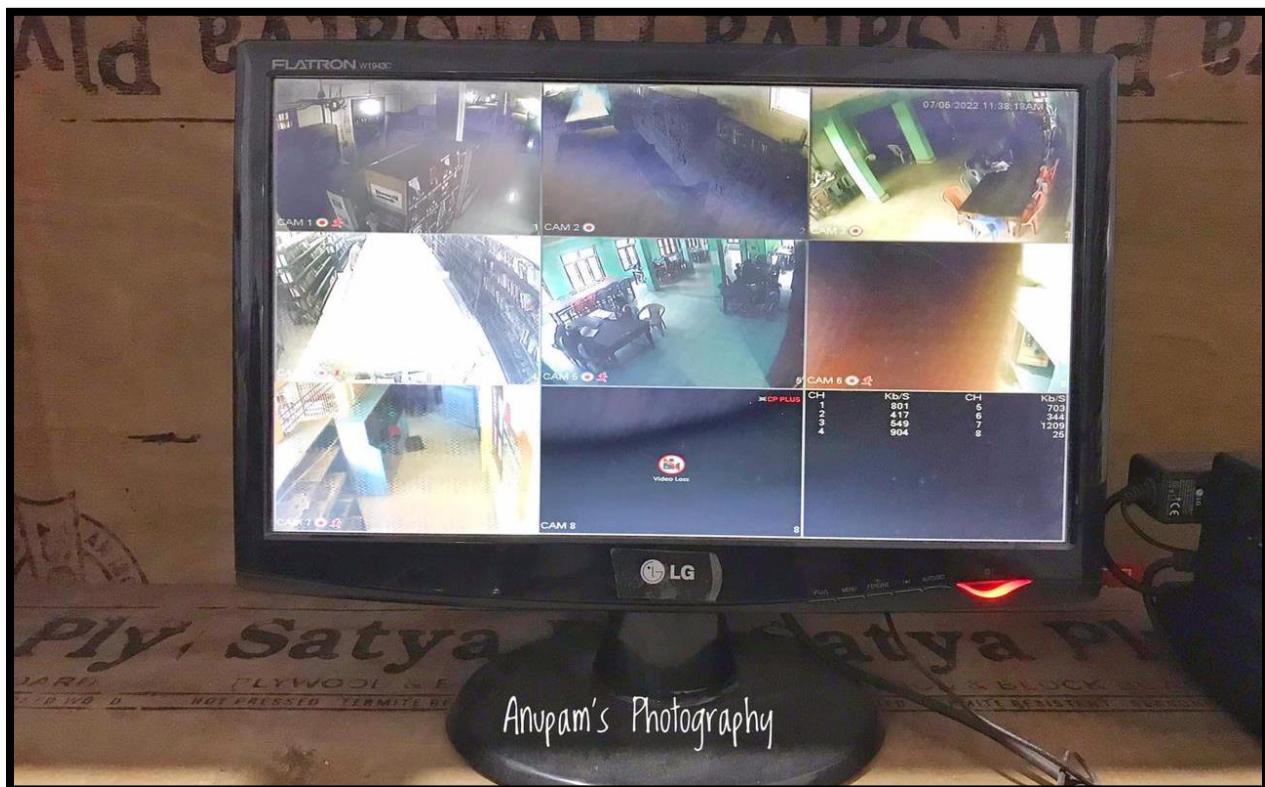
CCTV Monitor
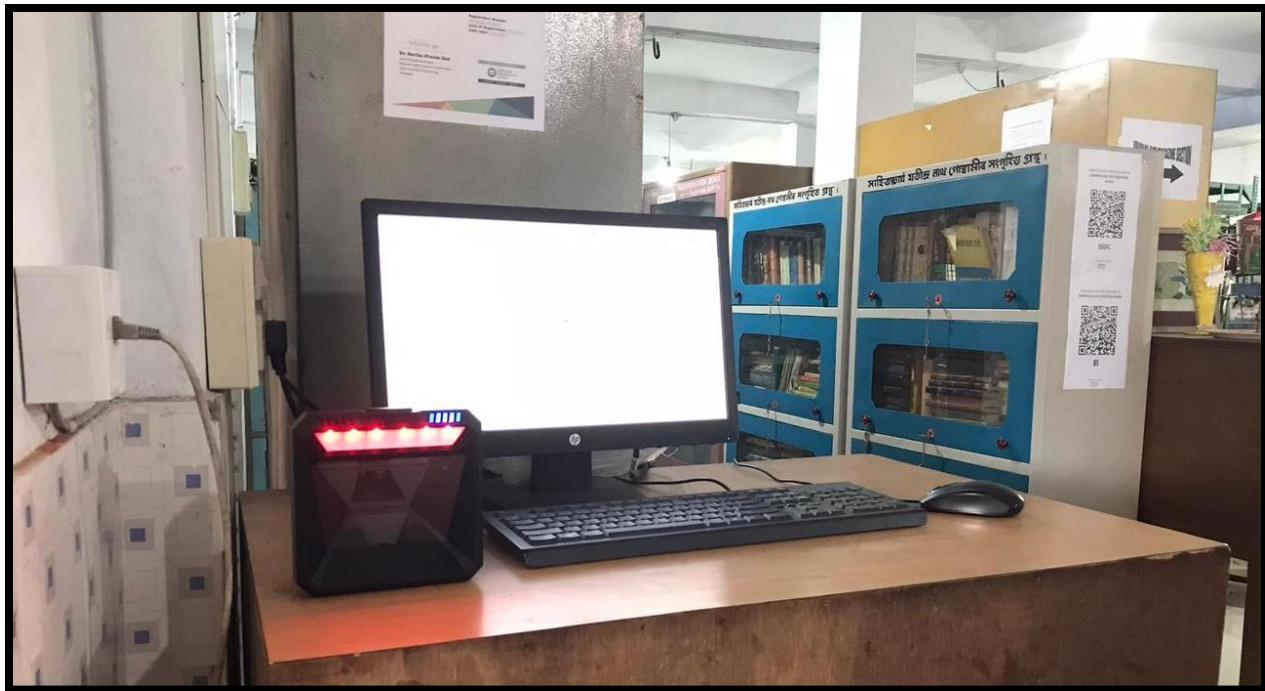
Barcode based attendance system for library users
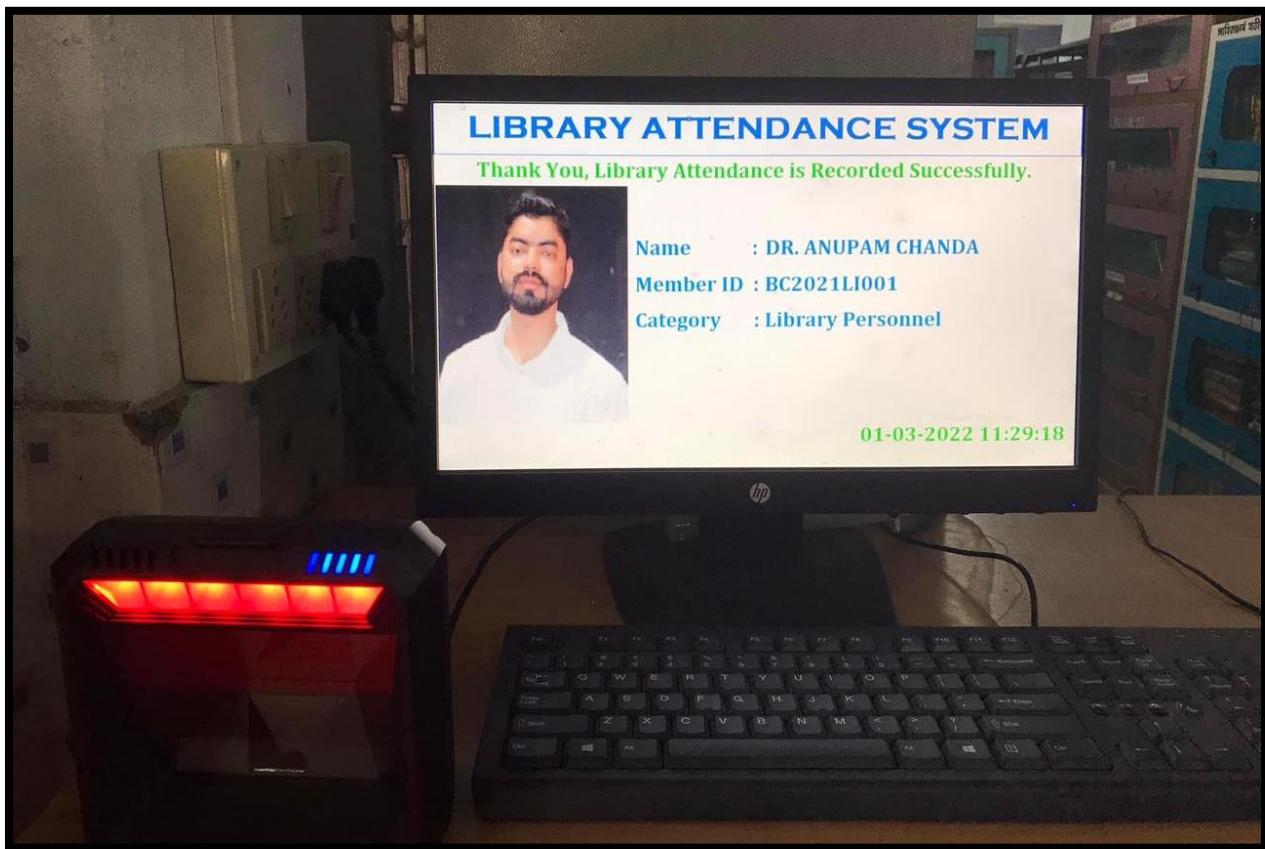

Barcode based attendance system monitor

Online Public Access Catalogue (OPAC)

QR Code-based previous year's question paper distribution service
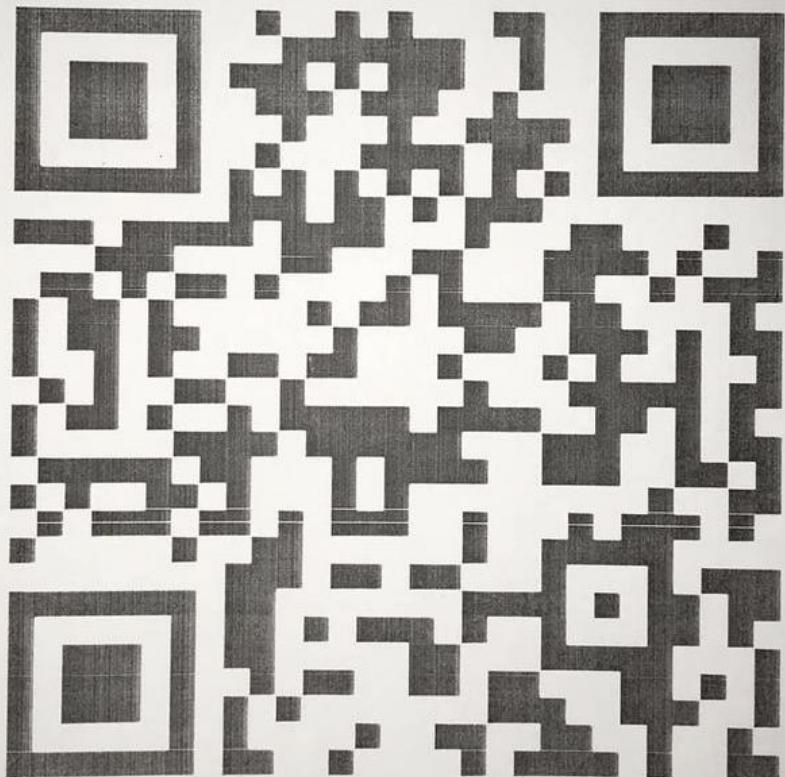
QR Code based services through WhatsApp Group