



# COTTON UNIVERSITY

Panbazar, Guwahati – 781001, India  
Website: [www.cottonuniversity.ac.in](http://www.cottonuniversity.ac.in)



## NOTICE

As per direction of Hon'ble Vice-Chancellor, Cotton University, a Committee has been constituted with the following members to prepare the mission and vision of Cotton University, which is to be placed in the Statutory bodies for approval.

1. Prof. Mahadev Patgiri, Dean R & D, Cotton University – Chairman
2. Prof. Bibhash Choudhury, Professor, Gauhati University – External Member
3. Prof. Santanu Sarma, Coordinator, IQAC - Member
4. Dr. Suresh Kumar Nath, Librarian (i/c) – Member

The Committee is requested kindly to provide the Mission and Vision of Cotton University by the end of May 2023.

*[Signature]* 26/4/23  
Registrar  
Cotton University

Memo No. – CU/GAD/2018/182/ 4244-116

Dated, Guwahati the 26 April, 2023

Copy to:

1. P.S. to VC for kind appraisal of the Hon'ble Vice Chancellor
2. All Members of the Committee.
3. Office File

*[Signature]* 26/4/23  
Registrar  
Cotton University



# COTTON UNIVERSITY

Panbazar, Guwahati-781001, Assam, India

www.cottonuniversity.ac.in :: 0361-2733530 :: registrar@cottonuniversity.ac.in

अप्रमत्तेन वेदव्यम्

## Notification

On recommendation of the Committee for preparation of the mission and vision of Cotton University notified vide No. CU/GAD/2018/182/4244-46 dated 26.04.2023 and approval by Hon'ble Vice Chancellor, CU, the guideline for STRATEGIC PLAN AND DEVELOPMENT has been notified for implementation.

The committee consisted of the following members:

- |  |                 |
|--|-----------------|
| 1. Prof. Mahadev Patgiri, Dean, R&D, CU        | Chairman        |
| 2. Prof. Bibhash Choudhury, Gauhati University | External Member |
| 3. Prof. Santanu Sarma, Coordinator, IQAC, CU  | Member          |
| 4. Dr. Suresh Kr. Nath, Librarian I/C, CU      | Member          |

  
Registrar

Memo No.CU/GAD/2018/182/ 8087-93

Dated: 26<sup>th</sup> July, 2023

Copy for information to:

1. Pro-Vice Chancellor, CU for kind information.
2. PS to Vice Chancellor for kind appraisal of the Vice Chancellor, CU
3. All Deans of CU for kind information.
4. All Officers/ HODs for information.
5. Coordinator- IQAC, CU for information.
6. CSM to upload this
7. Office File.

  
Registrar  
26/7/23



## STRATEGIC PLAN AND DEPLOYMENT

Established in 1901, Cotton University (erstwhile Cotton College) is located (main campus) at the banks of Brahmaputra in the center of Guwahati city covering 75.32 bighas (24.9 acre) of land. University has two other campuses: one at Rupnagar covering area of 17 bighas and at Bongora covering area of 142 bighas. University aspires towards a holistic education to develop foundational, employable and entrepreneurial skill among its students while contributing knowledge via cutting-edge research and by upholding the highest standards of ethics and accountability in a bid to provide transformative opportunities. We envision ourselves as a world-class university backed by excellence in teaching, research, multidisciplinary education, production of new knowledge, leadership and outreach. The unstinted efforts of Cotton University to enhance the body of knowledge in the realm of Science and Humanities has yielded fruitful results leading to the development of the departments of Physics, Chemistry, Geology, Mathematics, Statistics, Life Sciences which have proved to be robust research centers as well as the Arts and Social Science departments which are also equally active in pursuing research, teaching and extension activities relevant to the present day social requirements.

**The University has strong Vision and Mission for its perspective and strategic planning for becoming a full-fledged Multidisciplinary Educational and Research University.**

### VISION

To strengthen multi-disciplinary, technology-enabled education; promote research for innovation and excellence; train students as responsible future citizens who will strive towards creating a sustainable society.

### MISSION

It is our persistent endeavour to hone and nurture an egalitarian and inclusive environment for students capable of fostering healthy minds and critical thinking for a strong nation. The University shall strive to meet the demands of the global world with changing paradigms so as to provide only the best education and build solidarities of knowledge and creativity to make our cosmos vibrant and our students' future-ready.

*Approved for implementation.*

*[Signature]*

Vice Chancellor  
Cotton University

Panbazar, Guwahati-781001, Assam

*[Signature]*

*[Signature]*



## STRATEGIC PLAN

Following points are the main objectives of strategic plan as per the Vision and Mission of the University to excel in teaching, learning and student experience and to conduct outstanding research keeping in mind its social responsibility.

- (a) To deliver outcome-based quality education, emphasizing experiential learning with state-of-the-art infrastructure
- (b) To transform the nature of students who come as new learners from different backgrounds, using different learning techniques and personal preferences, leveraged by technology, needs to be the central focus of any planning.
- (c) To create a conducive environment for multi-disciplinary research and innovation.
- (d) To develop professionals through holistic education focusing on all round growth, discipline, ethics, and social sensitivity
- (e) To nurture industry-institution collaboration leading to competency enhancement and entrepreneurship
- (f) To strengthen the adoption of technology ensuring a sustainable and inclusive society, benefiting all sections of the society
- (g) To adopt and strengthen e-governance for time-bound delivery of educational services.

The following are the core values of the University for Strategic Plan for functioning:





**COTTON UNIVERSITY**  
**Panbazar, Guwahati -781001 (India)**  
[www.cottonuniversity.ac.in](http://www.cottonuniversity.ac.in)

- A. INTELLECTUAL EXCELLENCE:** Cotton University is committed to the pursuit of knowledge and continuous growth in learning and teaching for ensuring lifelong intellectual development of students, faculty, and staff.
- i. Enlightened Citizenship:** Cotton University believes in preparing students to engage complex issues and express informed opinion through critical thinking, writing, and speech.
  - ii. Scholarship:** Cotton University believes that students and faculty should engage in professional development and scholarly endeavors that promote the creation and application of knowledge in all disciplines.
  - iii. Cultural Competence:** Given the diversity of cultures and traditions of India, the Cotton University commits to train students to appreciate the diversity of ideas and people, both within and outside the classroom.
  - iv. Learning Environment:** Through the creation of providing state-of-the-art learning spaces, Cotton University fosters personal and intellectual progress of the learners.
- B. COMMUNITY ORIENTATION:** People are the focus of Cotton University. The University values and respects the community of students, faculty, staff and the people-local, state, nation and the world.
- i. Participation:** Cotton University believes in processes of shared decision making based on productive synergistic interactions among students, faculty, and staff, and disciplines in the pursuit of its goals.
  - ii. Partnerships:** Cotton University believes in developing and strengthening ties with the local community, academia, business, industry, civil society organizations and government departments for sharing resources and ideas with the partners.
  - iii. Safe and Healthy Environment:** Cotton University aims at promoting a safe, healthy, and sustainable environment enabling the stakeholders to flourish personally and socially binding them to improve their natural and social environment.
  - iv. Service:** Cotton University works to enable students, faculty and staff to integrate into the larger world to promote a commitment to public service through experiential education.
- C. DIVERSITY:** Cotton University is dedicated to provide enhanced multicultural learning opportunities. The University upholds the value of opportunity to work, learn, and develop in a community that embraces the diversity of individuals and ideas, including religion, caste, spiritual beliefs, national origin, age, gender, marital status, socioeconomic background, physical ability, political affiliation, and intellectual perspective.



**COTTON UNIVERSITY**  
**Panbazar, Guwahati -781001 (India)**  
[www.cottonuniversity.ac.in](http://www.cottonuniversity.ac.in)

- i. **Enrolment and Recruitment:** Cotton University seeks to enroll and retain a diverse student body, faculty, and staff.
- ii. **Support:** Cotton University strives to maintain the highest academic quality and ensures that its programs remain innovative and responsive to the ever-changing and diverse needs of the stakeholders.
- iii. **Knowledge:** Cotton University seeks to enhance interaction and understanding among varied groups and cultivate enriched learning opportunities in a global community
- D. INTEGRITY:** Cotton University is committed to ethical and responsible behaviour in its actions and developing the same commitment in the students, thus fostering individuals who will have the skills, knowledge, and ability to engage positively the fast-changing world. The commitment extends to all levels of our campus to foster a climate of ethical conduct, respect, responsibility, and trust.
- (i) **Ethics:** Cotton University believes in acting with honesty, courage, and trustworthiness.
- (ii) **Respect:** Cotton University supports a community and climate of respect and thoughtfulness among students, faculty, staff, and the people of the community, state, nation, and the world.
- (iii) **Responsibility:** Cotton University commits to being responsible and accountable in its operations at all levels, including continuous assessment of its academic programs and transparency in its financial and operational proceedings.
- (iv) **Trust:** Cotton University values and continually seeks to earn the public's trust in all of our actions and words.

## DEPLOYMENT

In view of the fast-paced dynamics of social, economic and technological change, updating the University's strategic documents becomes critical. In light of the above objectives of strategic plan and realities, the *Cotton University Vision and Mission Committee* met several times to consider several significant works for the strategic deployment in the University.

- (a) University has adopted the National Education Policy-2020 and accordingly new UG Curriculum of Four Year Undergraduate Programme (FYUGP) has been prepared by “**Task Force Committee for Implementation and Coordination of NEP’2020**” and now ready to implement from academic session 2023-2024. The University has already been a pioneering institute in adopting the NEP-2020 at the UG level by incorporating all the provisions; framing the necessary regulations; creating a support system; and registering for the ABC (Academic Bank of Credits).



**COTTON UNIVERSITY**  
**Panbazar, Guwahati-781001 (India)**  
[www.cottonuniversity.ac.in](http://www.cottonuniversity.ac.in)

- (b) The University also envisioned for Skill Development for enhancing skills and entrepreneurship-based inputs in curricula; academia-industry in socially relevant sectors by installing incubation centre in the University through North East Centre for Application and Reach (NECTAR) and others.
- (c) University has own strategic IT policy for adopting and strengthening e-governance for time-bound delivery of educational services.
- (d) University has a strategic policy document Faculty Development Programme (FDP)
- (e) University has established DBT-BUILDER-Cotton University interdisciplinary Life Science Programme for Advance Research and Education.
- (f) University has opened a separate undergraduate course for International Sports Persons of which they can take classes for both in offline or online mode.
- (g) University has strong orientations in extra curriculum activities like sports, culture, NCC, NSS and other outreach programmes.
- (h) Cotton University undertakes outreach programme in villages primarily through, Unnat Bharat Abhiyan (UBA), which is an initiative of Ministry of Human Resource Development, Government of India, aims to bring transformational change in rural development processes by leveraging knowledge institutions to help build the architecture of an inclusive India. As a selected beneficiary of the UBA, Cotton University has adopted five villages since 2018. These five villages include Nij Panbari, Hajongbori, Keotpara, Chakardo-Kalitapara and Satargaon.
- (i) **Extension activities:**
- Unnat Bharat Abhiyaan in five adopted villages.
  - Teaching school children in 3 schools in various subjects & Computer fundamentals.
  - Soft Skill training to staff of nearby schools.
  - Donated about 300 pairs of Desk & Benches to 6 Schools
  - Distributed 1500 Lemon Saplings in Adopted Villages and planted fruit bearing trees each year through the initiative of EBWS.
- (j) Master Plan for the Rupnagar Campus is being worked by impaneled having a Convention Centre, one Academic Block, one 7 storey residential Flat for teachers, 2 Non-teaching employee residence.



**COTTON UNIVERSITY**  
**Panbazar, Guwahati -781001 (India)**  
[www.cottonuniversity.ac.in](http://www.cottonuniversity.ac.in)

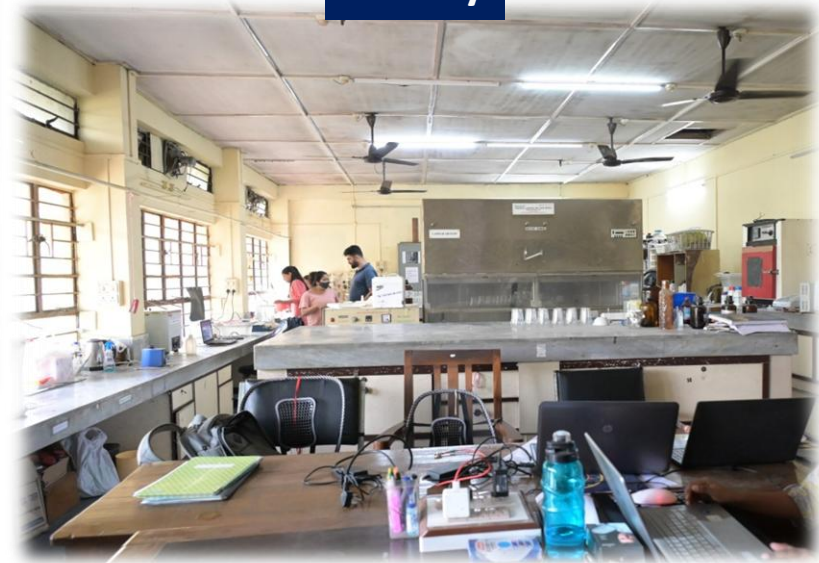
- (k) University has established a Central Instrumentation Facility (CIF). At present, the facility has several modern and sophisticated analytical instruments like CO<sub>2</sub> incubator, Rotary Evaporator, Fluorescence microscope, Polymerase Chain Reaction (PCR), High-performance liquid chromatography (HPLC), Flow-cytometry, Microwave Digestion system, Auto-analyser (Hematology), Gas Chromatography Mass Spectrometry (GC-MS), Fourier Transform Infrared (FT-IR) Spectrometer, UV-Vis Spectrophotometer with DRS (Diffused Reflection Spectrophotometer) attachment, Steady State Fluorometer, Electro Chemical Analyser, UV- Vis Spectrophotometer, X-Ray Source, Pfeiffer Vacuum Pump, Micowave Radiometer, TL Reader, Solar Simulator etc. These instruments are available to researchers (inside and outside) on nominal charge basis. Further boost up the centre University is planning to purchase XRD, SEM, TEM and AFM to extend research facilities to support quality research as well.
- (l) **Principal Scientific Advisor to the PM of India was officially made public the “Mega Science Vision 2035” on 29 March 2022, where our project proposal: “Cotton University Particle Accelerator Centre (CUPAC)-NE Collaboration)” has been included and amount estimated to be about Rs. 240 cr. This is a crucial and important step towards our dream of the CUPAC-NE accelerator.** Cotton University has signed MoU with Dr. B. Borooah Cancer Institute (BBCI), Guwahati regarding first phase of implementation as an application using Accelerator Driven Boron Neutron Capture Therapy (AD-BNCT).



**Geology**



**Zoology**



**Botany**

**Research  
Laboratories**



**Physics**



**Chemistry**



**MBBT**

# Research Facilities



Magnetic Susceptibility (Chemistry)

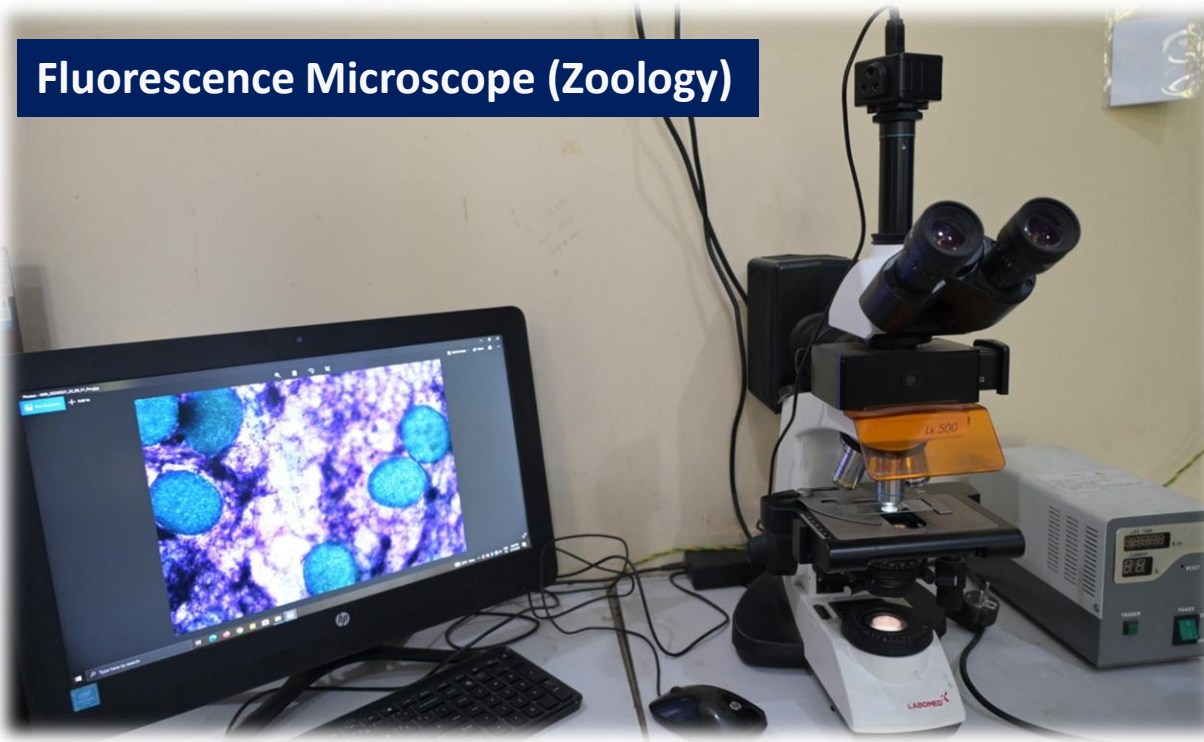
HPLC (MBBT)



Fluorescence Spectrophotometer (Chemistry)



**Fluorescence Microscope (Zoology)**

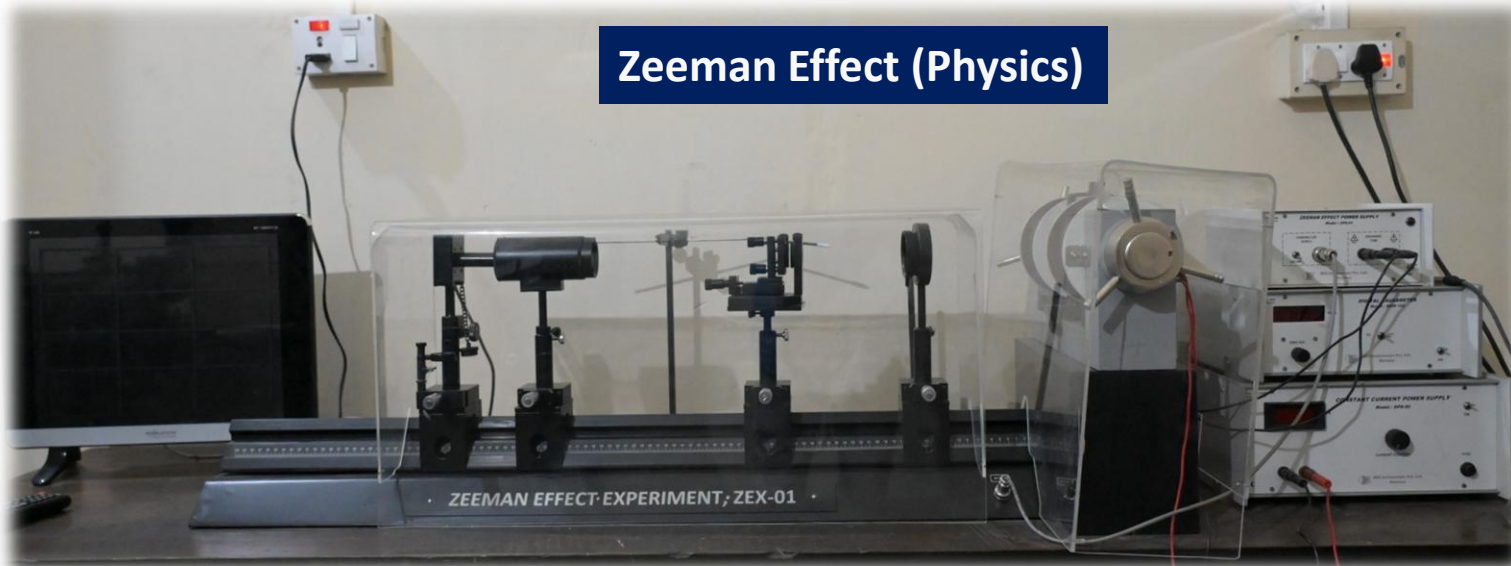


**Research  
Facilities**

**Rock Mining Lab (Geology)**

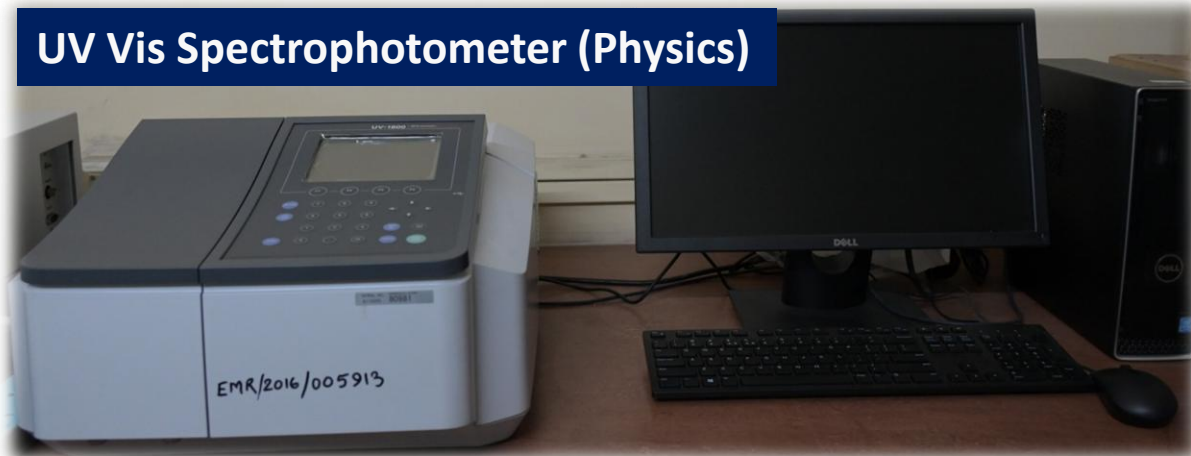


**Zeeman Effect (Physics)**



# Research Facilities

UV Vis Spectrophotometer (Physics)



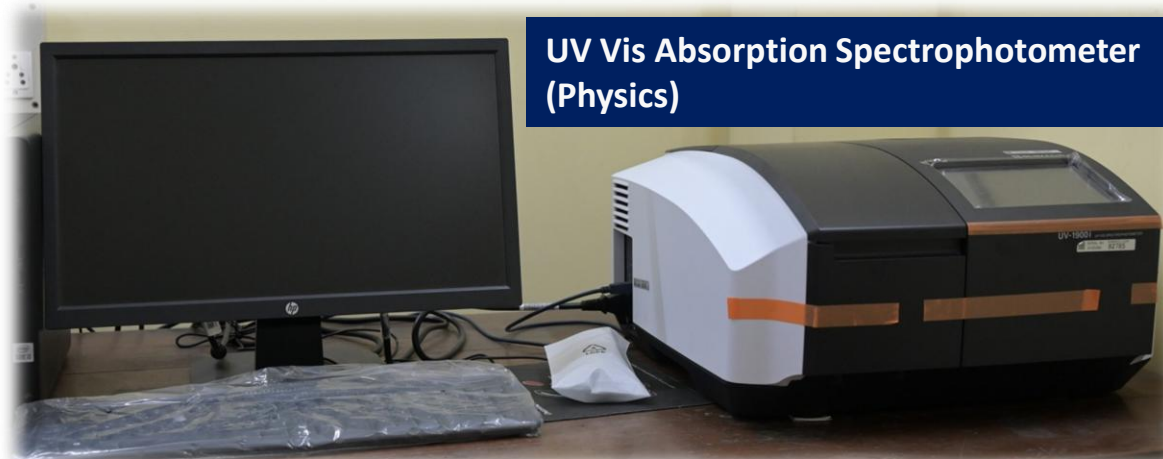
Rock Mining Lab (Geology)



CH Analyzer (Chemistry)

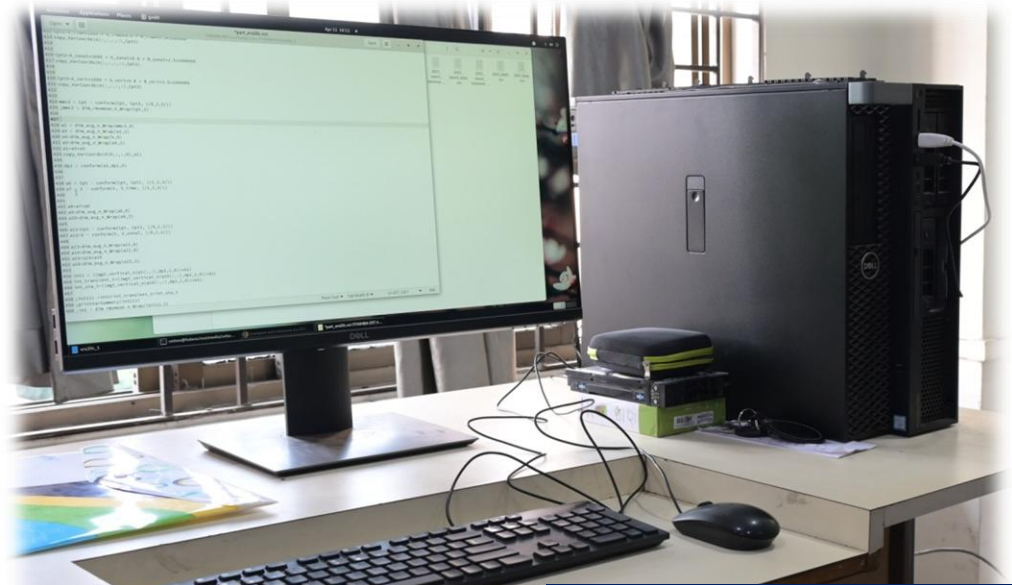
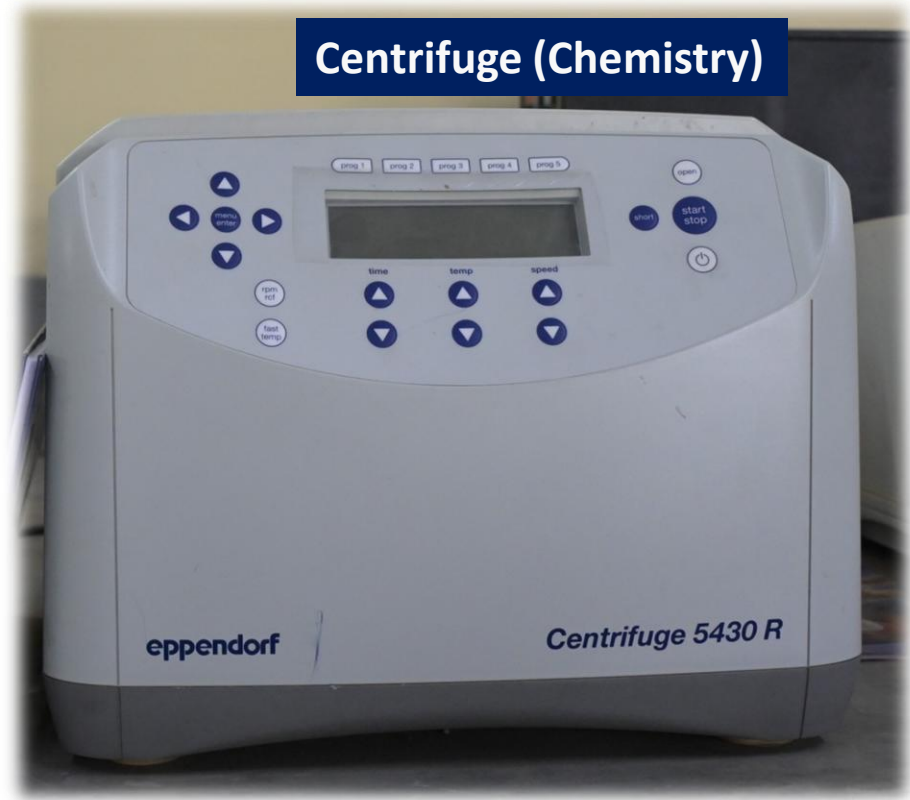


UV Vis Absorption Spectrophotometer (Physics)



# Research Facilities

Centrifuge (Chemistry)



Workstation (Physics)



IR Spectrophotometer

# Research Facilities

## Continuous Ambient Air Quality Monitoring Station (Physics)



ASSAM POLLUTION CONTROL BOARD  
CAAQMS PARAMETERS

ITEMS	VALUE	UOM
PM2.5	23.00	ug/m3
PM10	44.00	ug/m3
CO	00.52	ug/m3
O3	17.14	ug/m3

GPS Map Camera



Guwahati, Assam, India  
5PPV+XRV, Cotton University Rd, Pan Bazaar, Guwahati, Assam  
781001, India  
Lat 26.187538°  
Long 91.744424°  
21/07/23 03:42 PM GMT +05:30



GPS Map Camera



Guwahati, Assam, India  
5PQV+2J9, Pan Bazaar, Guwahati, Assam 781001, India  
Lat 26.1875°  
Long 91.744225°  
21/07/23 03:44 PM GMT +05:30



CONTINUOUS AMBIENT AIR QUALITY MONITORING STATION  
DEPARTMENT OF PHYSICS, COTTON UNIVERSITY, GUWAHATI-781001

cpb  
CENTRAL POLLUTION CONTROL BOARD  
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE  
GOVERNMENT OF INDIA

pcba  
POLLUTION CONTROL BOARD, ASSAM  
DEPARTMENT OF ENVIRONMENT & FOREST  
GOVERNMENT OF ASSAM

INSTALLATION & COMMISSIONED BY SWAN TECHNICAL SERVICE PVT LTD., HYDERABAD

GPS Map Camera



Guwahati, Assam, India  
5PQV+2J9, Pan Bazaar, Guwahati, Assam 781001, India  
Lat 26.187517°  
Long 91.744257°  
21/07/23 03:45 PM GMT +05:30

# Central Instrumentation Facilities



# Central Instrumentation Facilities



RPG Standard Single-Polarization Radiometer



Rotary Evaporator

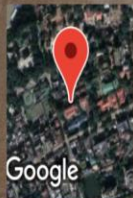


# Central Instrumentation Facilities

## X-Ray Source



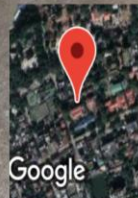
GPS Map Camera



Guwahati, Assam, India  
5PQV+2J9, Pan Bazaar, Guwahati, Assam 781001, India  
Lat 26.18764°  
Long 91.744031°  
21/07/23 03:47 PM GMT +05:30



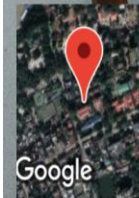
GPS Map Camera



Guwahati, Assam, India  
5PQV+2J9, Pan Bazaar, Guwahati, Assam 781001, India  
Lat 26.187651°  
Long 91.744029°  
21/07/23 03:47 PM GMT +05:30



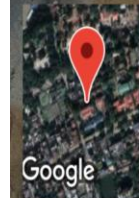
GPS Map Camera



Guwahati, Assam, India  
5PQV+2J9, Pan Bazaar, Guwahati, Assam 781001, India  
Lat 26.187658°  
Long 91.744026°  
21/07/23 03:47 PM GMT +05:30



GPS Map Camera



Guwahati, Assam, India  
5PQV+2J9, Pan Bazaar, Guwahati, Assam 781001, India  
Lat 26.187658°  
Long 91.744026°  
21/07/23 03:48 PM GMT +05:30

# Instrument Development & Service Centre, Cotton University

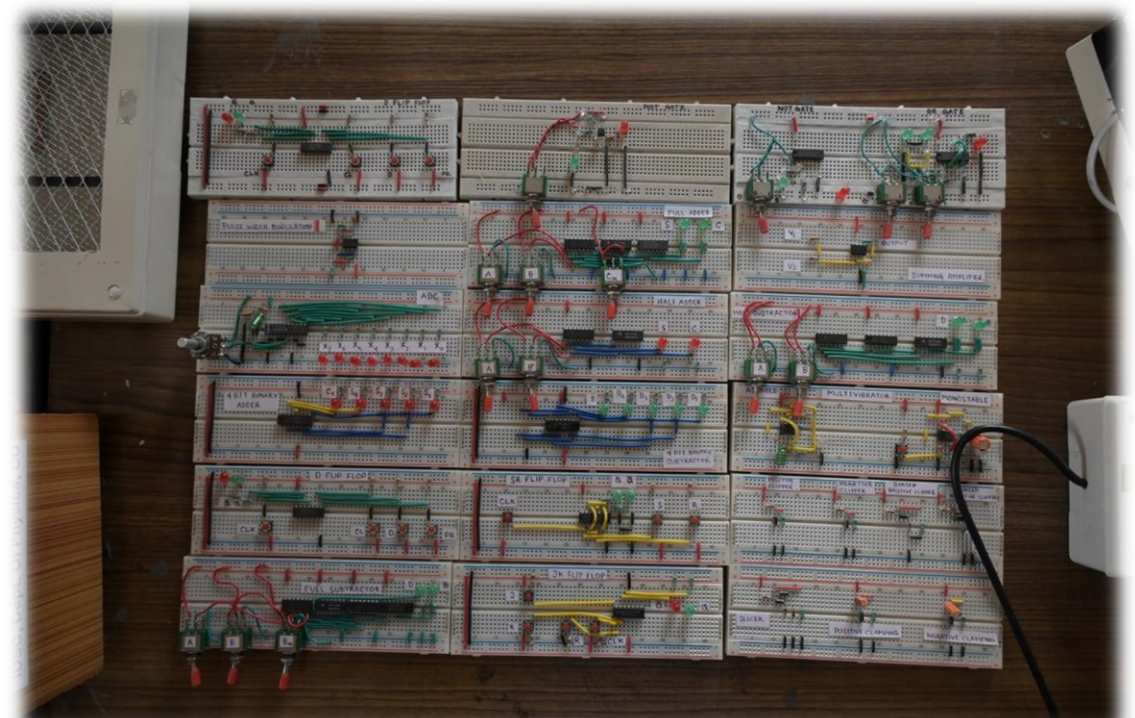


# IDSC

## INSTRUMENT DEVELOPMENT AND SERVICE CENTRE

A Collaborative Project of Dept. of Physics,  
Cotton University and ASTEC (Govt. of Assam)

2<sup>nd</sup> Floor, Dept. of Physics, Cotton University



# Individual Research Laboratories



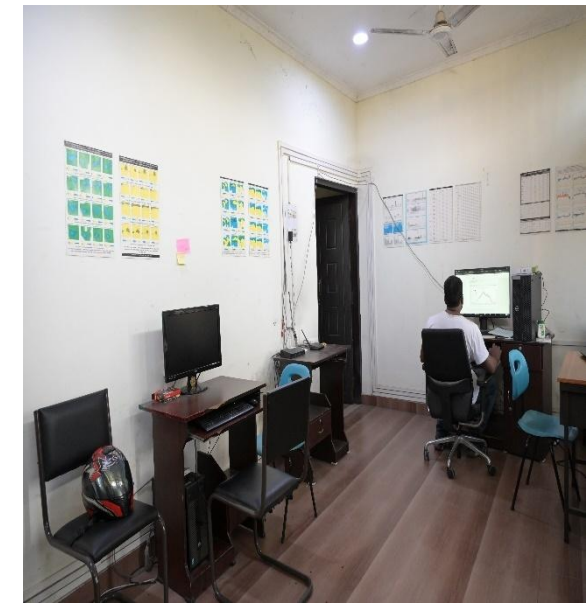
**Cell & Biochemical  
Technology Lab  
(Zoology)**



**Neuroendocrinology Lab  
(Zoology)**



**Bioinorganic Chemistry Lab  
(Chemistry)**



**Weather Research  
Laboratory  
(Physics)**

# Research Facilities



**Cytogenetics Lab (Botany)**



**Research Lab (Botany)**



**Practical Lab (MBBT)**



**IDSC Lab (Physics)**



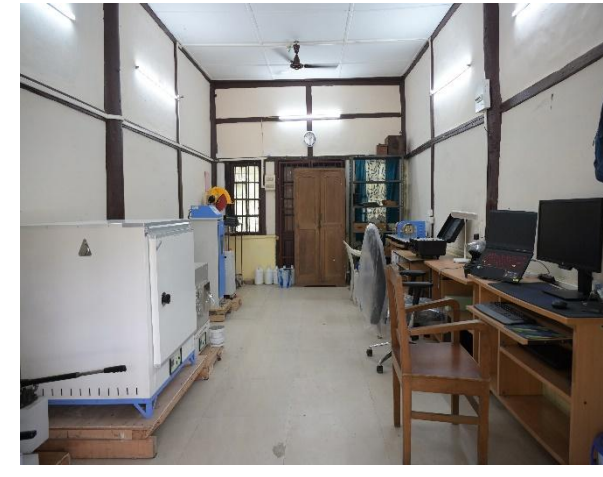
**Nuclear Physics Lab (Physics)**



**Optics Lab (Physics)**



**Laboraties - 2 (CS&IT)**



**Engineering Lab (Geology)**