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Dr. Meghnad Saha Sarani, Bidhannagar, Durgapur-713206, West Bengal (India)

### HANDS ON LEARNING

As teachers we must focus on the learner's outcome. Hands-on learning allows students to incorporate what is being taught into real world situations, thus allowing the student to retain more information. The students gain knowledge in laboratories located within the Institute. All the faculty members have designed various outcome based experiments as per the syllabus assigned by MAKAUT. The students gain practical knowledge including instrumentation, operation, and calibration of all apparatus or instruments used in laboratories. It helps cement the concepts of the learning into their long-term memory. If the hands-on activity is positive they will use it as training tool themselves. In our college, students in Hands-on learning (Practical classes) are highly engaged and motivated. It alleviates power of critical thinking and problem-solving skills and also makes the students more self-reliant as they work through the activity.

#### LABORATORY MANUAL

**SUBJECT: PHARMACEUTICAL  
ANALYSIS (PRACTICAL)**

**CODE- PT-191**

**COURSE: BACHELOR IN PHARMACY**



**Dr. B. C. Roy College of Pharmacy  
and Allied Health Sciences  
Durgapur, West Bengal 713206**

BCRCP



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LAB MANUAL

HUMAN ANATOMY & PHYSIOLOGY  
PRACTICAL-I (New Syllabus)  
(Subject code- PT195)  
B.PHARM  
SEMESTER-I



Dr. B. C. Roy College of Pharmacy & AHS,  
DURGAPUR

DR.B.C.ROY COLLEGE OF  
PHARMACY & ALLIED HEALTH  
SCIENCES, DURGAPUR.

B.PHARM 1<sup>ST</sup> YEAR 1<sup>ST</sup> SEMESTER

PHARMACEUTICS -I LAB MANUAL

SUBJECT CODE: PT196



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PHARMACEUTICAL  
ORGANIC  
CHEMISTRY-I PRACTICAL

**PAPER CODE: PT-296**

(B. PHARM, 1st YEAR 2nd SEMESTER)  
MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY.

**Dr. B. C. ROY COLLEGE OF PHARMACY & AHS**  
DR. MEGHNAD SAHA SARANI, BIDHAN NAGAR  
DURGAPUR-713206, WEST BENGAL  
2019-2020

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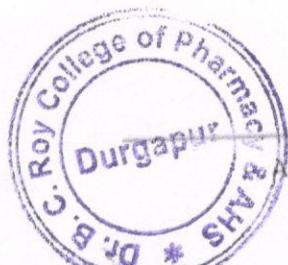
PRACTICAL MANUAL OF  
PHARMACEUTICAL MICROBIOLOGY  
(PT-399)

BACHELOR OF PHARMACY  
2<sup>ND</sup> YEAR  
(3<sup>RD</sup> SEMESTER)

DR. B.C. ROY COLLEGE OF PHARMACY AND  
ALLIED HEALTH SCIENCES,  
Bidhannagar, Durgapur-713206.

**LIST OF EXPERIMENTS**

- 1. Sterilization techniques/methods:**  
a) Dry heat sterilization by hot air oven  
b) Moist heat sterilization by Autoclave (at certain temperature and condition)
- 2. Incubation (method):** incubation for the growth of micro organisms by incubator at certain temperature
- 3. Preparation of culture media:**  
a) Liquid media: i) Peptone water ii) Nutrient broth  
b) Solid media: (Pouring in to petri dishes)  
1. Nutrient Agar 2. Indicator media - Bromothymol Blue Lactose media  
3. Selective media - Mac Conkey's media 4. Enriched media - Blood agar media.  
5. Other enriched media
- 4. Inoculation of liquid & Solid media - Isolation of Pure cultures by Plating out method:**  
1. Serial Streaking 2. Cross Streaking
- 5. Gram Staining of bacterial (Gm+ve/ Gm - ve)**
- 6. Identification of bacteria by biochemical reactions, i.e. Sugar media to test for carbohydrate fermentation:**
- 7. Determination of C.F.U of Water/Air -** It includes preparation of sterile nutrient agar plates) Both spreading on plates/mixed in molten solid media & subsequent pouring in petridish.
- 8. Microbial Assay of Antibiotics by disk diffusion method**
- 9. Rideal Walker test:** of disinfectant/Antiseptics
- 10. Test for sterility:** In fluid thioglycolate media. Samples may be: Water for injection/Disposal syringe/Gauge Bandages.



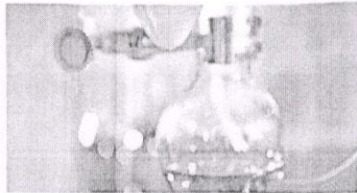
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Prof. (Dr.) Samir Kumar Samanta  
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## Laboratory Manual



For  
Medicinal Chemistry I-  
Practical  
Paper Code: PT-593 N

Aimed for B.Pharm. students

As per the syllabus of  
Maulana Abul Kalam Azad University of Technology, WB, India effective from  
the session 2018-19

Prepared by:  
Dr. Souvik Basak



Dr. B.C. Roy College of Pharmacy & Allied Health Sciences,  
Durgapur, WB, India

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## LABORATORY MANUAL (As Per PCI)

B. PHARM. 4<sup>th</sup> YEAR 7<sup>th</sup> SEMESTER

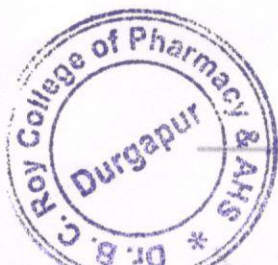
SUBJECT: Instrumental Methods of Analysis

CODE: PT-791



### Lab Manual PT 891

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2	2	Find out the % Purity of supplied sample Metronidazole Tablet	
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MANUAL  
M.PHARM -1<sup>ST</sup> SEMESTER

MPT1985  
PHARMACOLOGY PRACTICAL I



Dr B. C. ROY COLLEGE OF PHARMACY  
& AHS, DURGAPUR

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LAB MANUAL

for

PHARMACEUTICS PRACTICAL-II

MPT - 2065

1<sup>ST</sup> YEAR 2<sup>ND</sup> SEM



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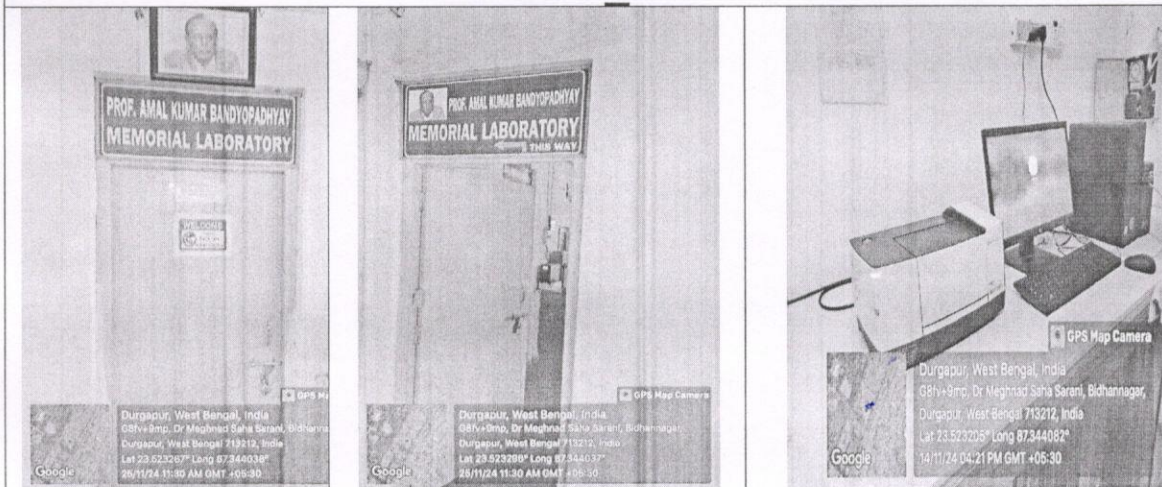




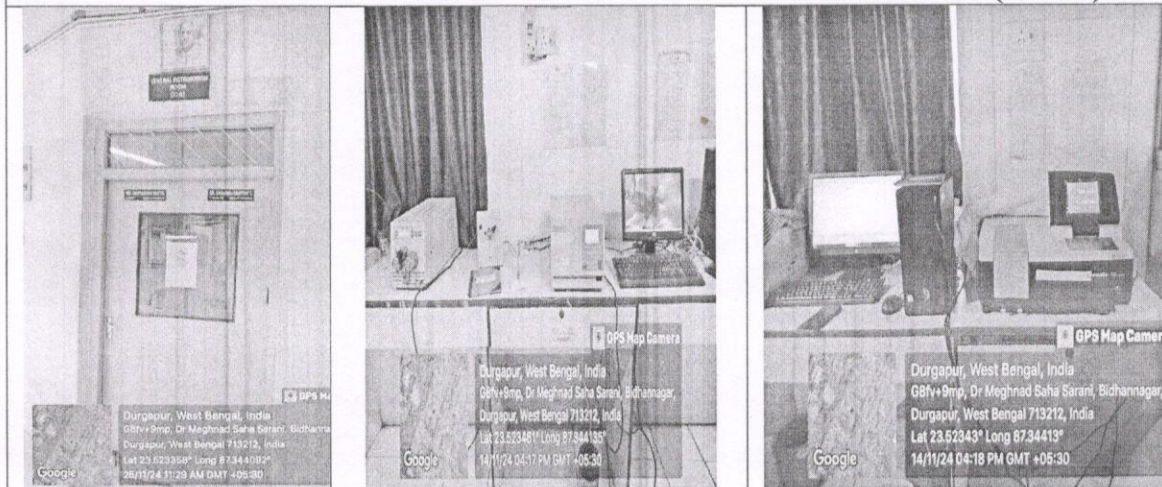
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## Laboratories at a GLANCE

### AmalB Lab



### CENTRAL INSTRUMENTATION ROOM (CIR)



### COMPUTER CENTER/SIMULATION LAB



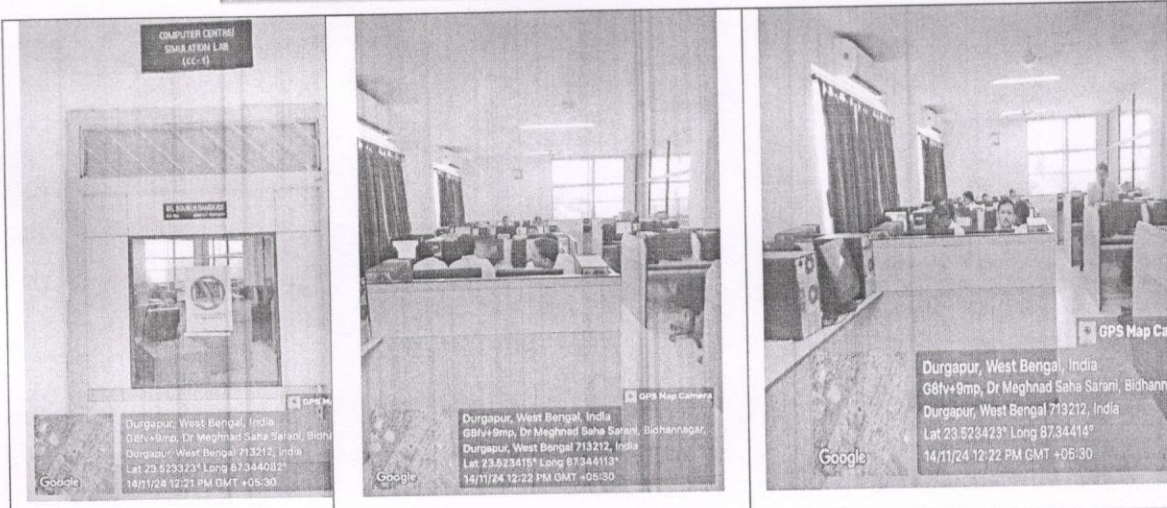
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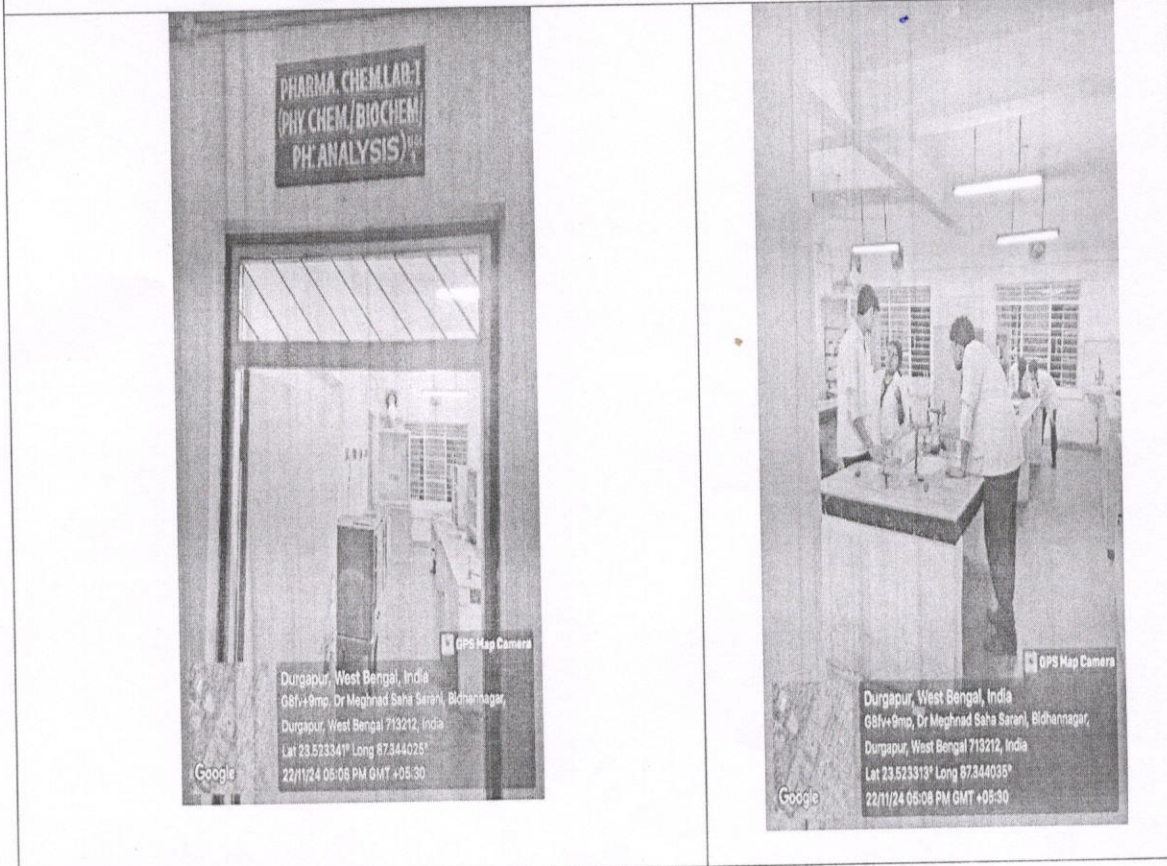




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## PHARMA CHEM LAB-I



## PHARMACOLOGY SIMULATION LAB

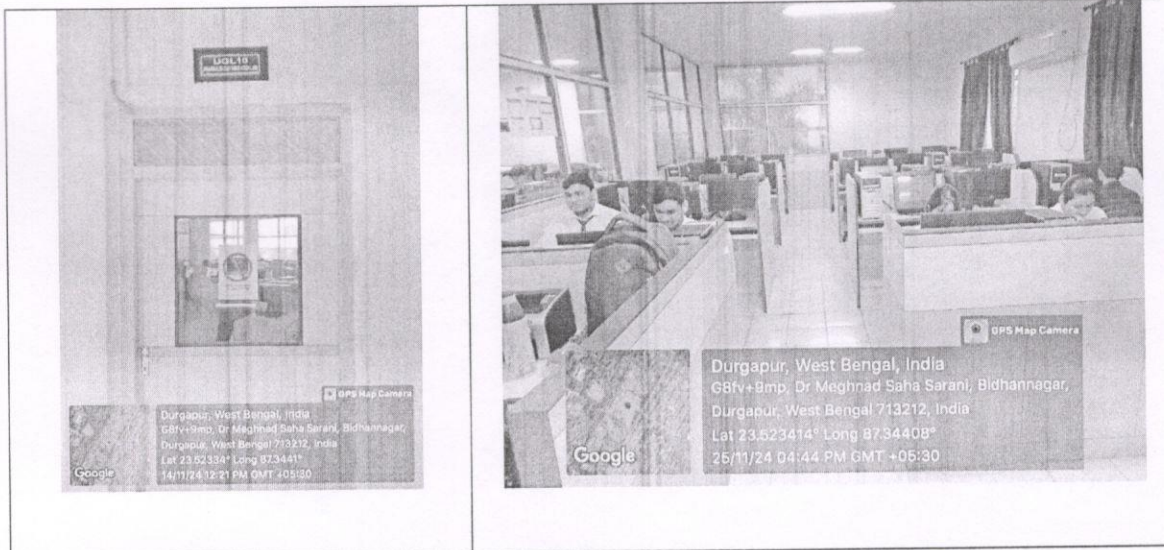


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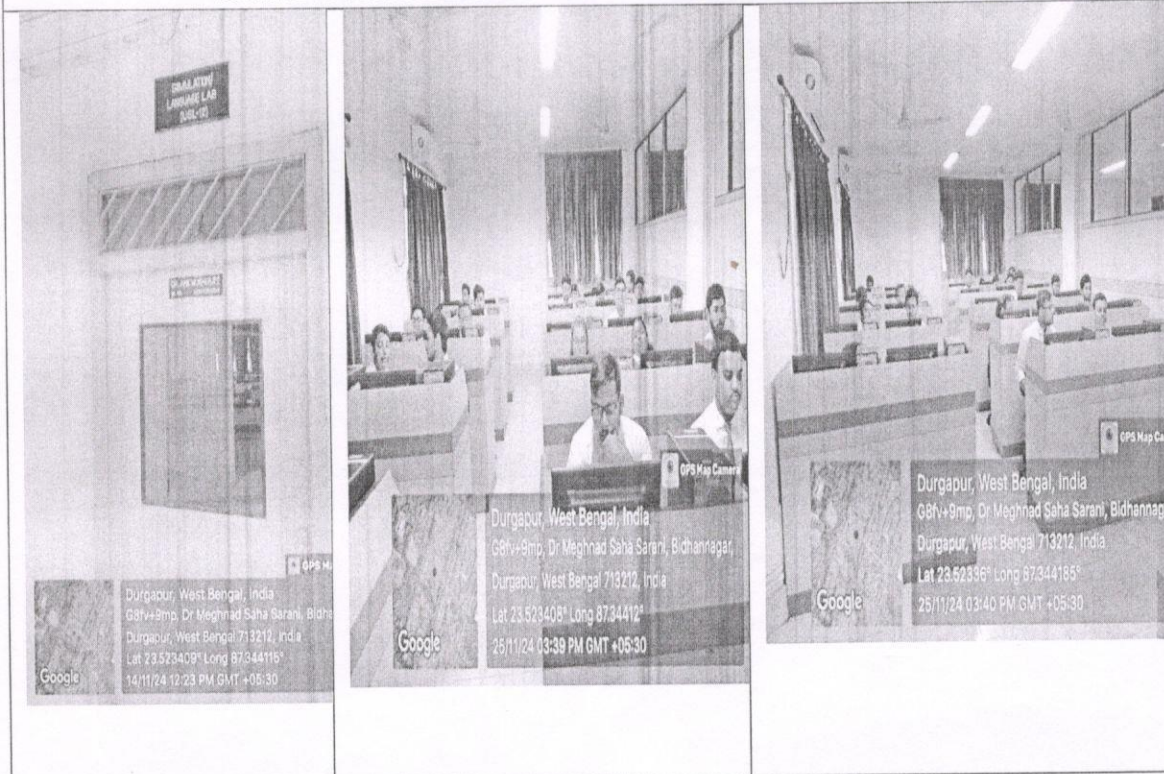




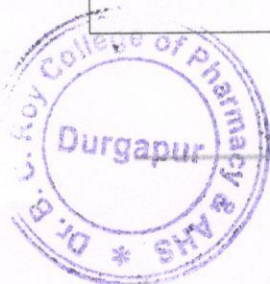
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## SIMULATION/ LANGUAGE LAB



## PHARMA CHEM LAB-II



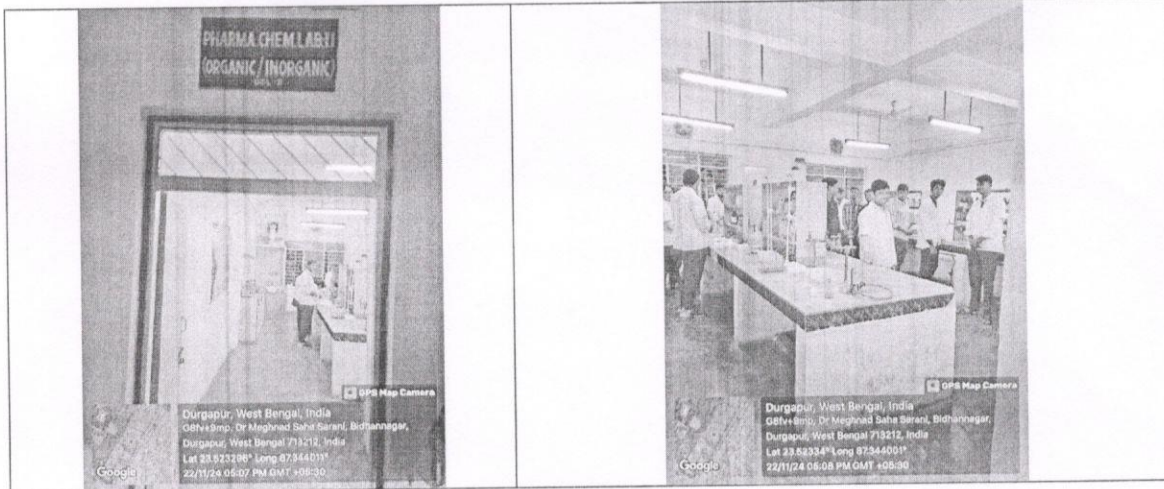
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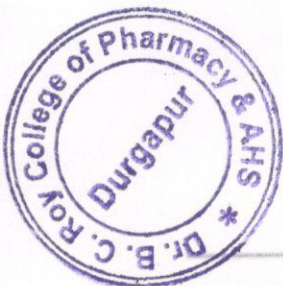
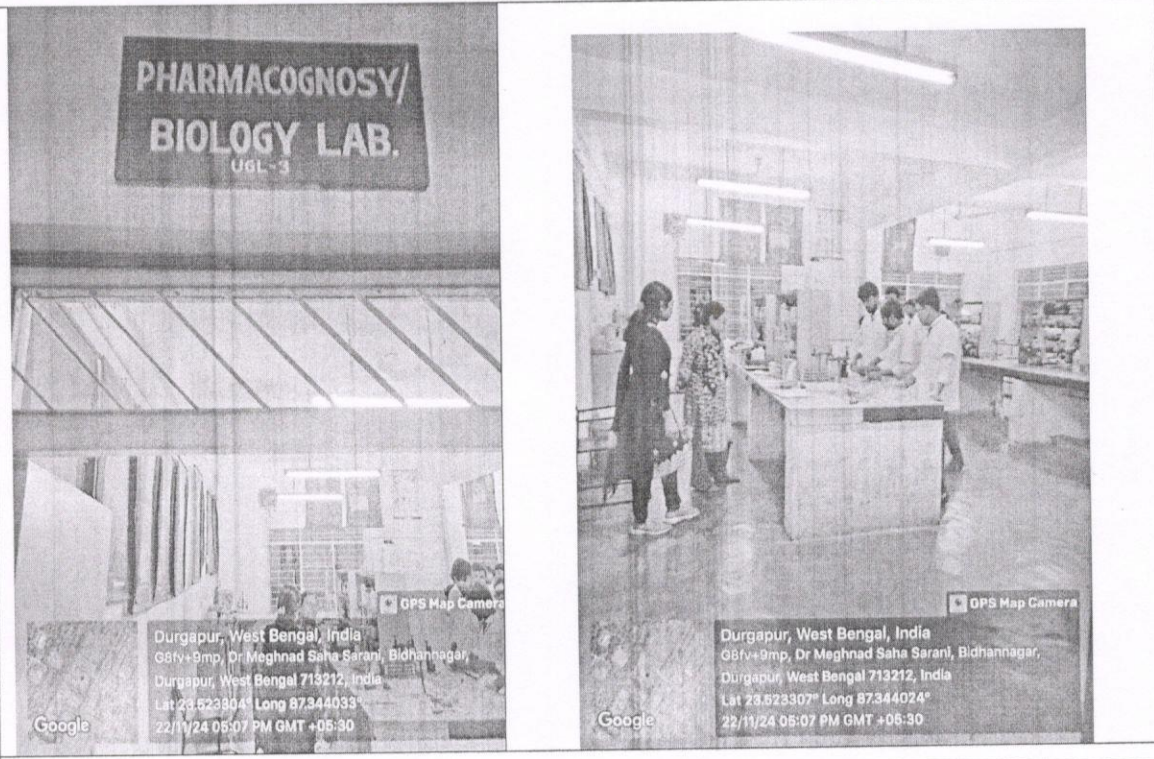





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## PHARMACOGNOSY/BIOLOGY LAB

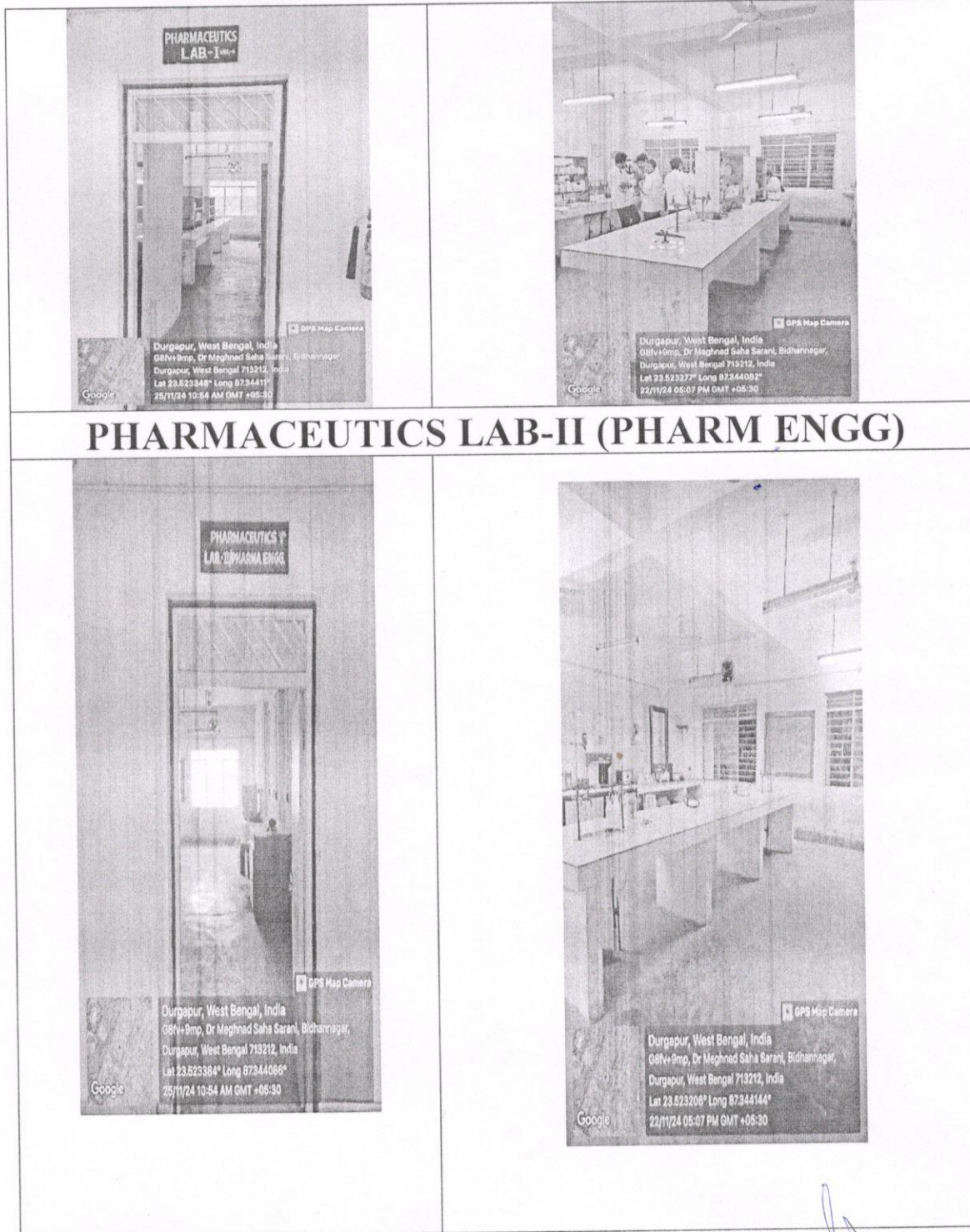


  
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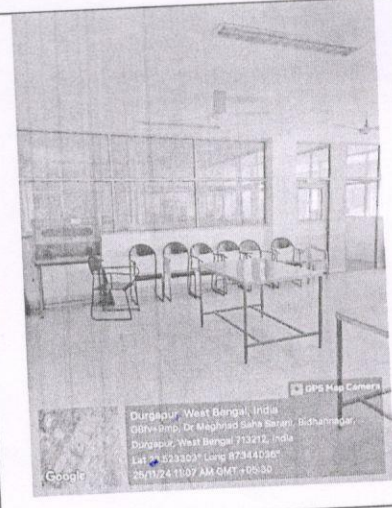
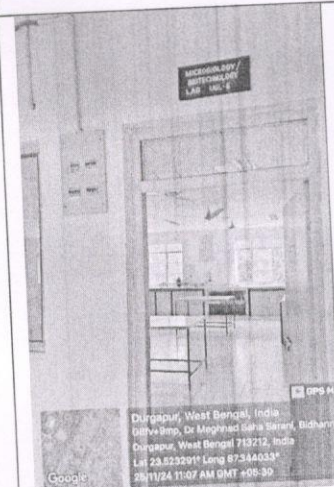
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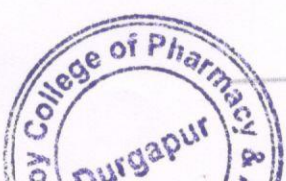


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## MICROBIOLOGY/BIOTECHNOLOGY LAB



## PHARMA CHEM LAB-III (MED CHEM)

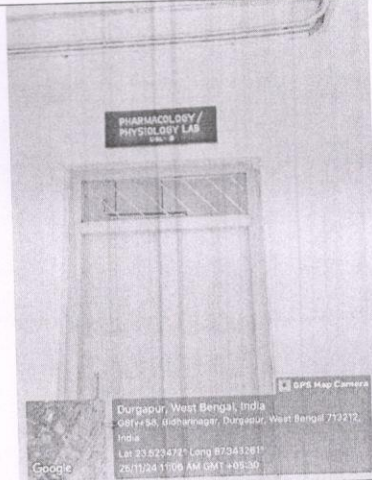






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## PHARMACOLOGY/PHYSIOLOGY LAB



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India  
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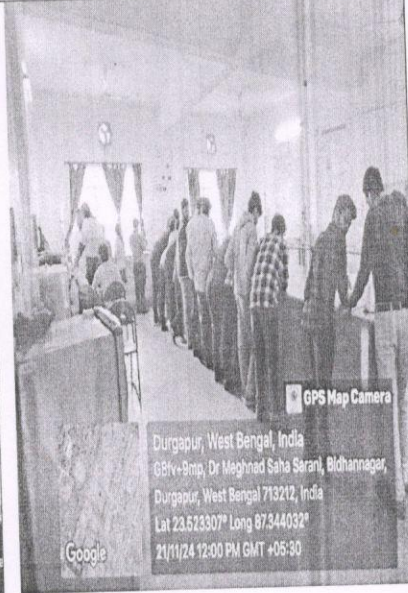


Durgapur, West Bengal, India  
88°14'9mp, Dr Meghnad Saha Sarani, Bidhannagar,  
Durgapur, West Bengal 713212, India  
Lat 23.523352° Long 87.344042°  
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## PHARMACOLOGY LAB



Durgapur, West Bengal, India  
88°14'9mp, Dr Meghnad Saha Sarani, Bidh  
Durgapur, West Bengal 713212, India  
Lat 23.523418° Long 87.344016°  
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Durgapur, West Bengal, India  
88°14'9mp, Dr Meghnad Saha Sarani, Bidhannagar,  
Durgapur, West Bengal 713212, India  
Lat 23.523307° Long 87.344032°  
21/11/24 12:00 PM GMT +05:30



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Durgapur, West Bengal 713212, India  
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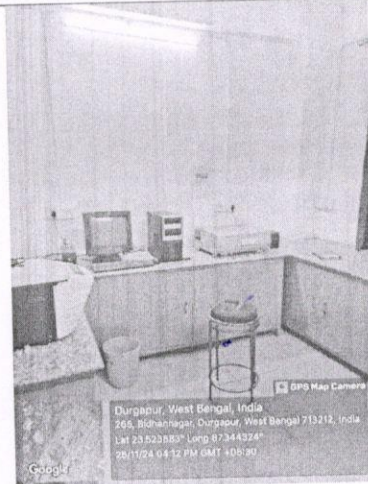
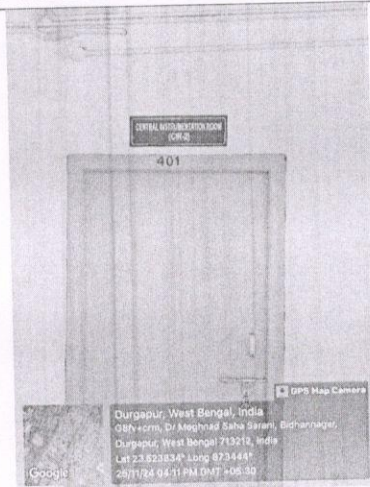


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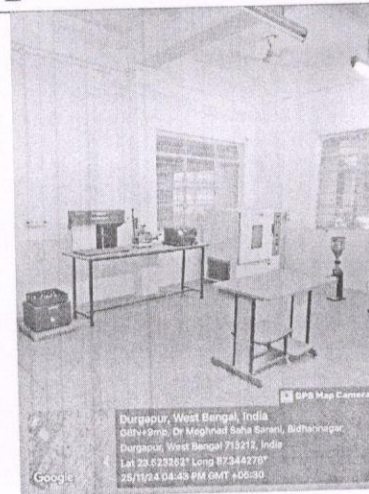
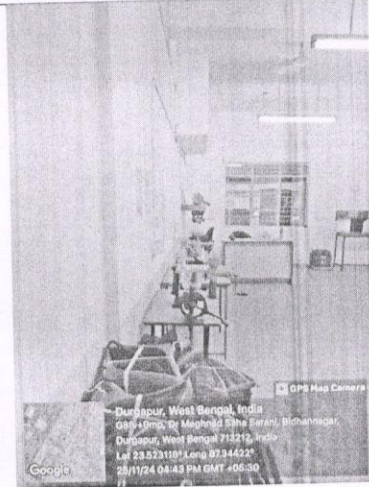




## CENTRAL INSTRUMENTATION ROOM (CIR-2)



## MACHINE ROOM

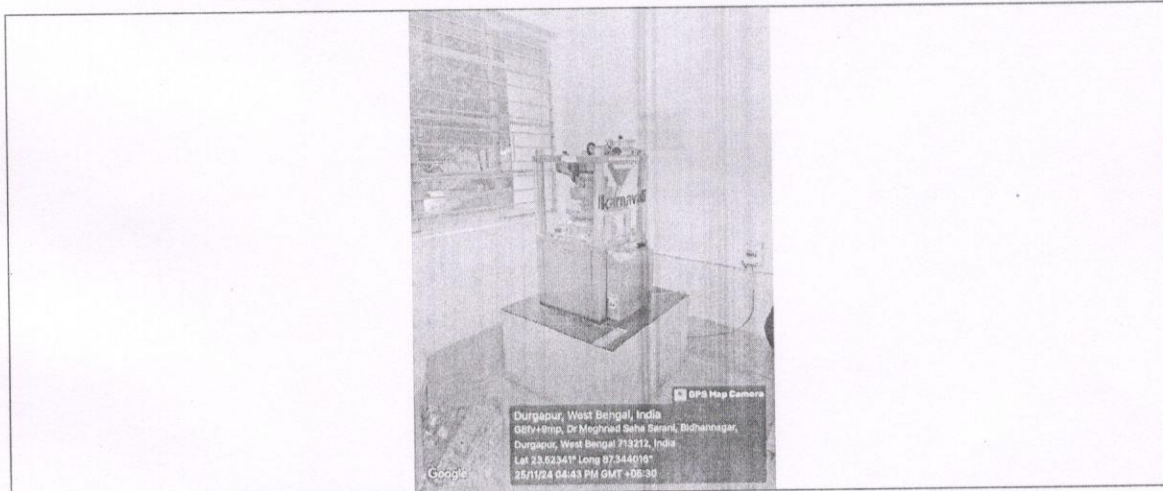


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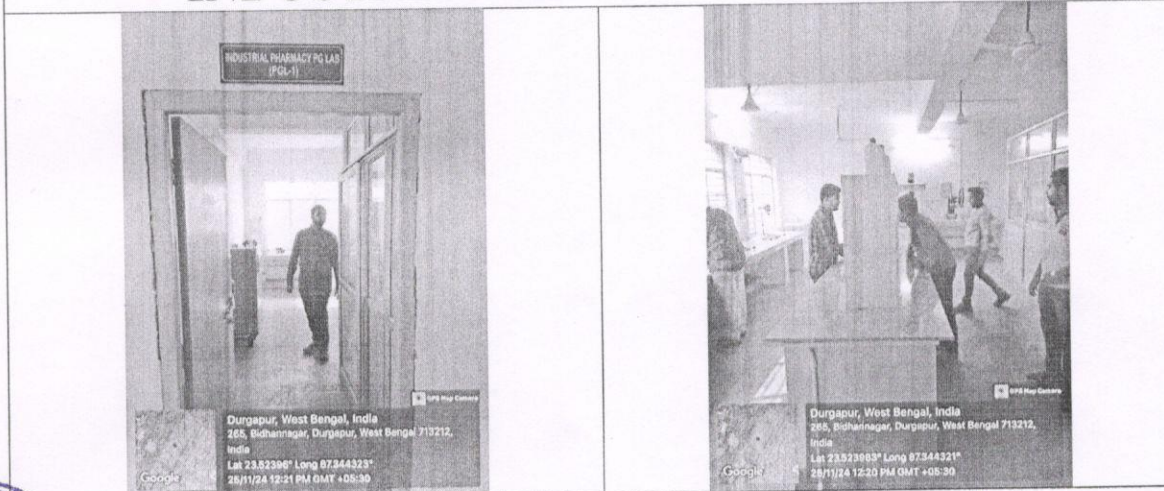
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### DST-SERB FUNDED RESEARCH LAB



### INDUSTRIAL PHARMACY PG LAB

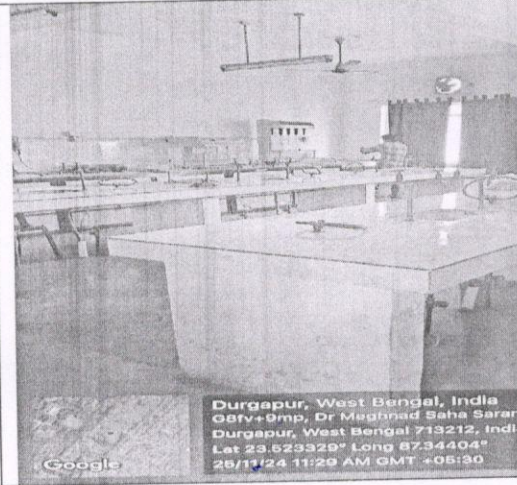
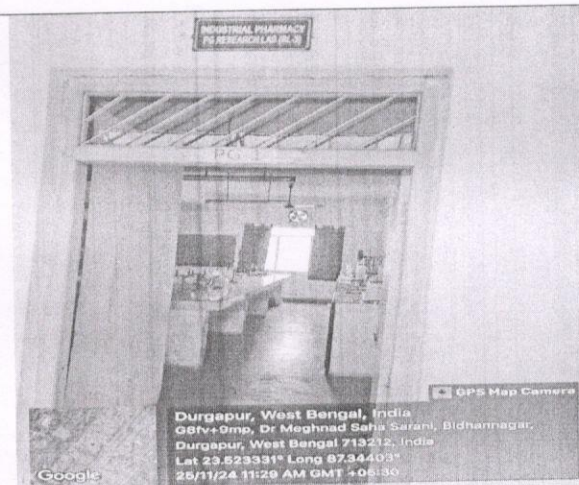




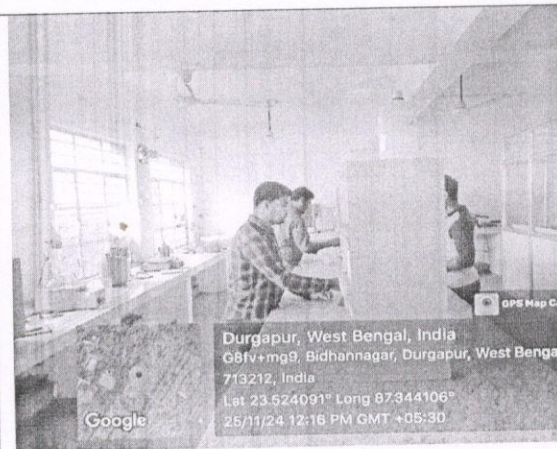
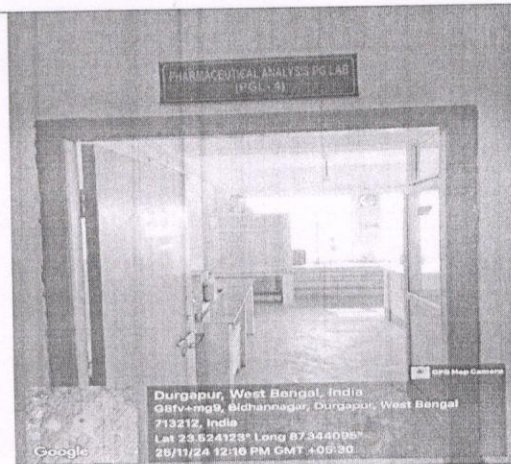


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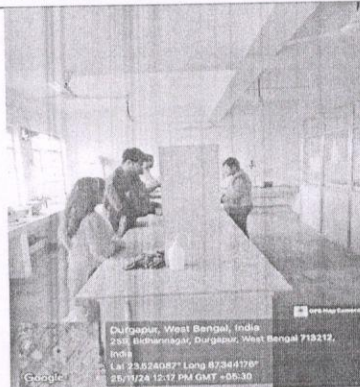
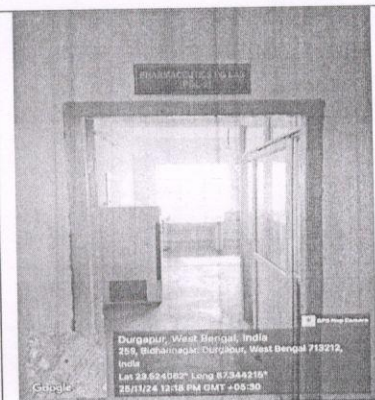
## INDUSTRIAL PHARMACY PG RESEARCH LAB



## PHARMACEUTICAL ANALYSIS PG LAB



## PHARMACEUTICS PG LAB





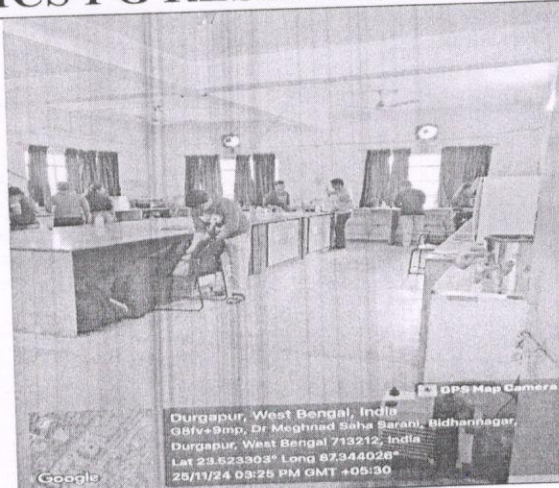


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## PHARMACEUTICS PG RESEARCH LAB

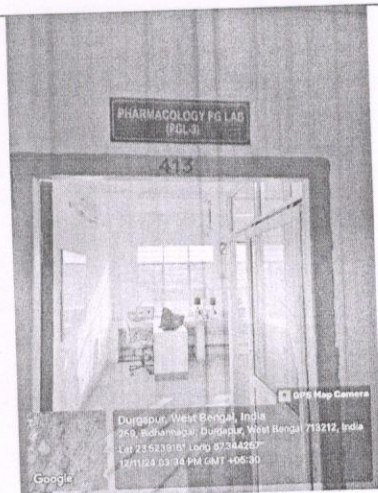


Durgapur, West Bengal, India  
GBfv+9mp, Dr Meghnad Saha Sarani,  
Durgapur, West Bengal 713212, India  
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25/11/24 03:25 PM GMT +05:30



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## PHARMACOLOGY PG LAB



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Durgapur, West Bengal, India  
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713212, India  
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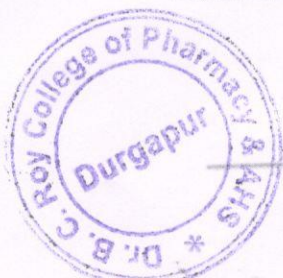
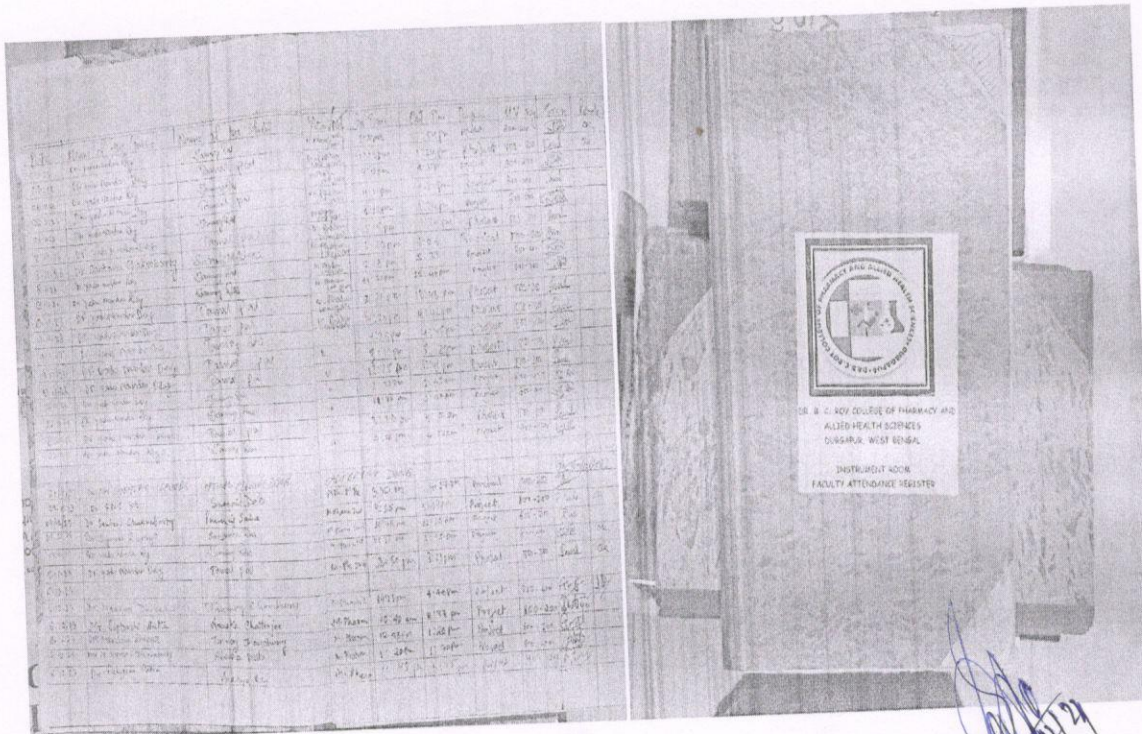
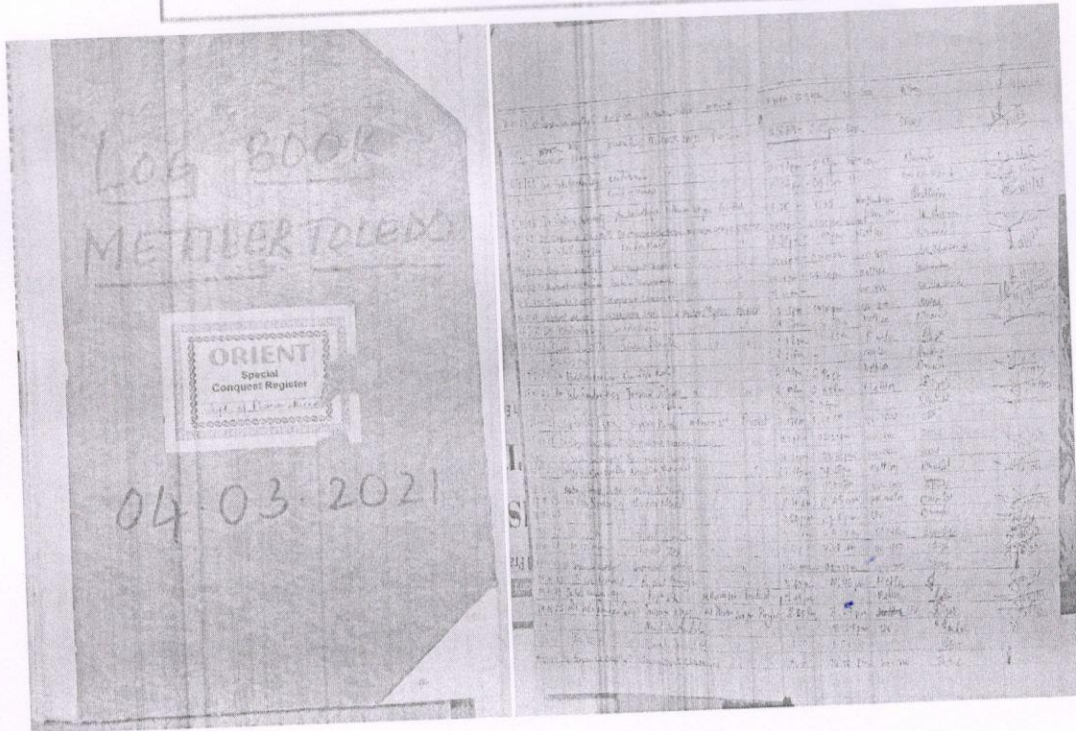


*(Signature)*  
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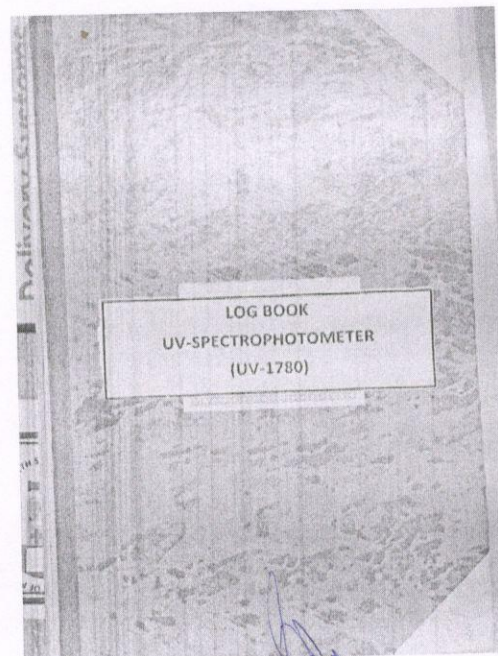
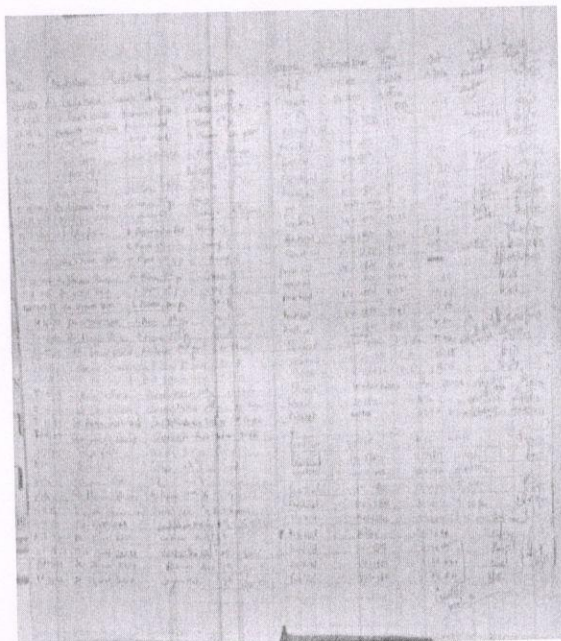
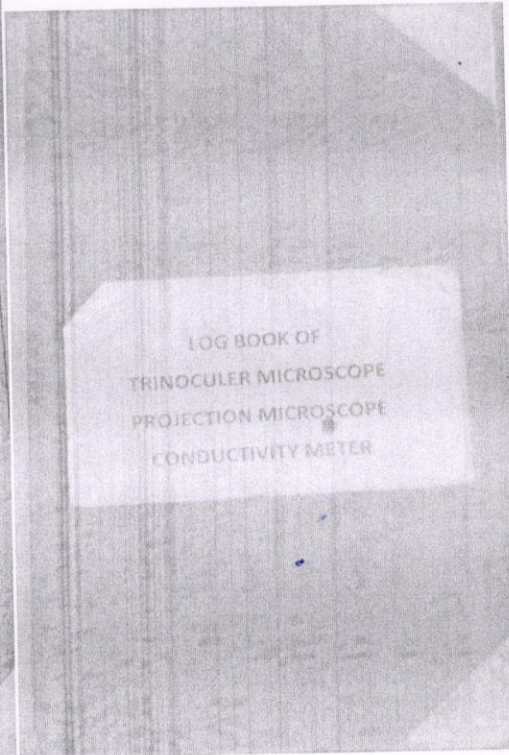
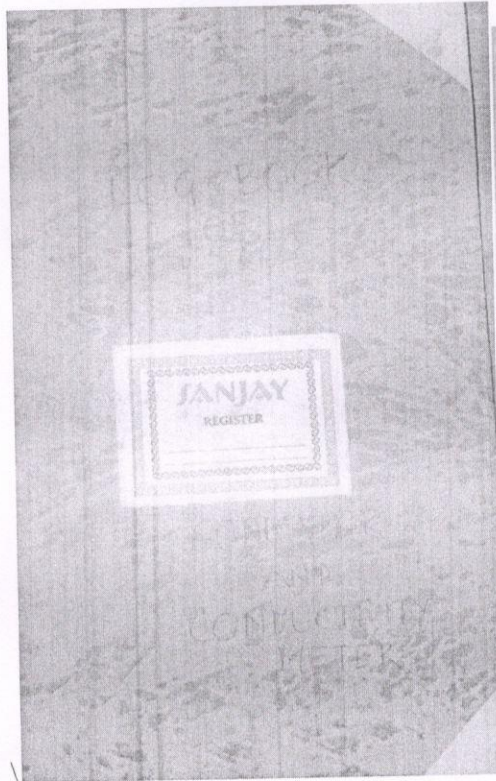


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