

NAAC Criterion 4: Infrastructure and Learning Resources

4.2 Clinical, Equipment and Laboratory Learning Resources

4.2.3: Average number of students per year exposed to learning resource such as Laboratories, Animal House & Herbal Garden during the last five years





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Additional information



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DETAILS OF THE LABORATORIES, ANIMAL HOUSE & HERBAL GARDEN

ANIMAL HOUSE

Central Animal house of PESIMSR is registered with Committee for Control and Supervision of Experiments on Animals (CCSEA, formerly known as CPSEA) with the registration number – 767/PO/Re/S/03/CPSCEA). Animal house has 1 office room, 2 AC rooms for animals, 1 treatment room for animals, 1 rat holding room, 1 mouse holding room, 1 rabbit holding room ,2 rooms for guniea pig, 1 store room, 4 wash rooms and 1 frog pond. No animals are available in the animal house. As per NMC MSR 2020 Dated 28/10/2020 pg. No.11 Column No.A.2.6 Animal holding area is required only if research activity and PG training is under progress and it is not required for the UG curriculum. As per the NMC guidelines all the Animal Experiments are demonstrated using simulation software (Ex Pharma) during practical classes allotted for second MBBS students by using Computer assisted lab (CAL).

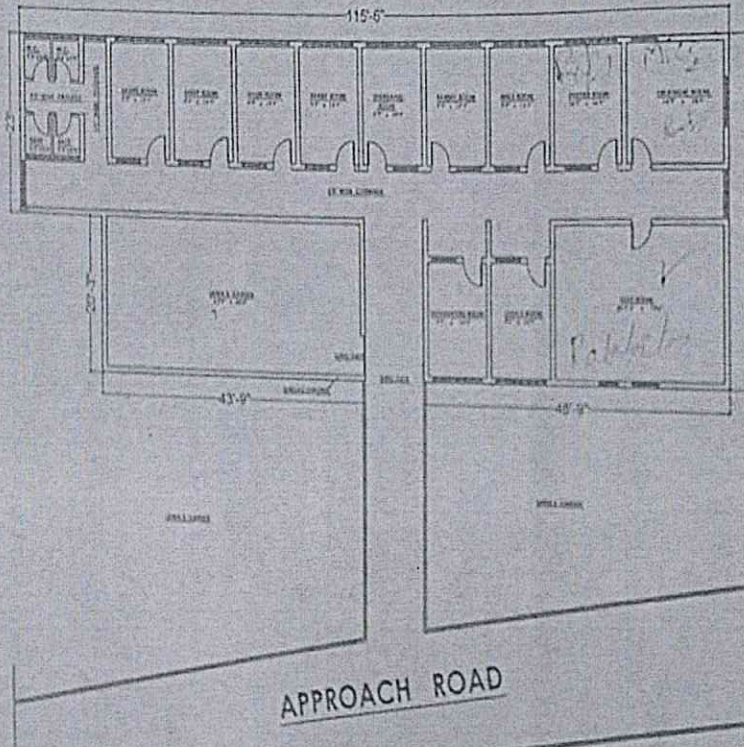
PESIMSR Kuppam is established Medical College since 2001-02 & having PG course since 2009 in MD Pharmacology. However, no PG students have joined MD Pharmacology since the last 8 years and no research activities going on Animals. In view of this as soon as student for MD Pharmacology join, we will renew the license for Animal house.




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PLAN SHOWING THE EXISTING ANIMAL HOUSE IN THE PREMISES
OF PES INSTITUTE OF MEDICAL SCIENCES & RESEARCH, KUPPAM.
GUDUPALLI MANDAL, CHITTOOR DIST., A.P.



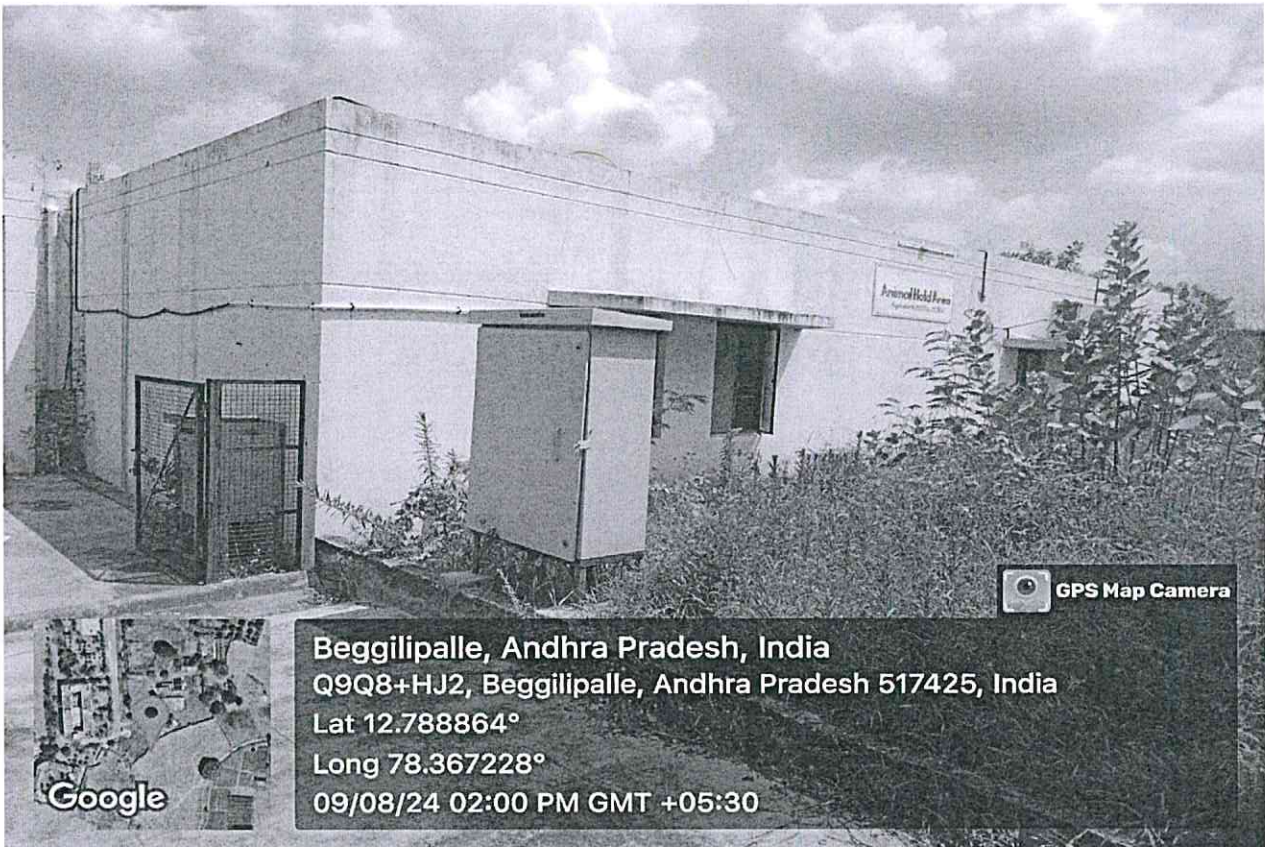
Requirement of
A.C. machine 6000
1. Rat Room 7x8
2. Mice Room 7x4
3. Rabbit Room 16x18

GROUND FLOOR PLAN



[Signature]
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Government of India
Ministry of Environment, Forest and Climate Change
Committee for the Purpose of Control and Supervision of Experiments on Animals (CPCSEA)
5th Floor, Vayu Block, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi



CERTIFICATE

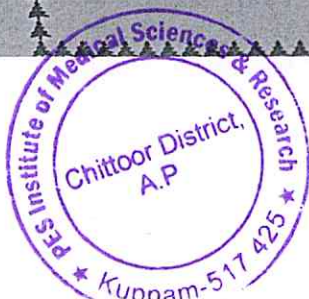
This is to certify that the registration of Animal House Facility of PES Institute of Medical Sciences and Research, Chittoor, Andhra Pradesh with CPCSEA has been renewed for Research for Education purpose on Small Animals bearing registration number 767/PO/Re/S/03/CPCSEA.

The registration is valid for five years from 29/03/2019 to 28/03/2024.

(Jerome Minz)

Deputy Secretary (AW) & Member Secretary (CPCSEA)

JEROME MINZ
Member Secretary (CPCSEA)
Min. of Environment, Forest & Climate Change
Government of India
Jor Bagh Road, New Delhi



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Department of Pharmacology
ANIMAL HOUSE / ANIMAL EXPERIMENT

1) Is ANIMAL EXPT. DONE

ANS: As per NMC guidelines 2020/ page 11/A.2.6.
For teaching Pharmacology in UG curriculum the required knowledge & skills should be Imparted using computer Assisted Module

2 How / which computer Assisted Module

ANS : As per NMC guidelines Ex- Pharma Series Software - Computer Assisted Learning (CAL) Software has been purchased from *Bureau for Health & Education Status Upliftment. & is valid.

All experiments for UG/PG using animals can be shown with this software

: Pharmacology Dept. has 25 operating systems as per NMC guidelines .

3 ANIMAL HOLDING AREA:


We have an Animal Holding Area and is registered with CPCSEA until 29 March 2023

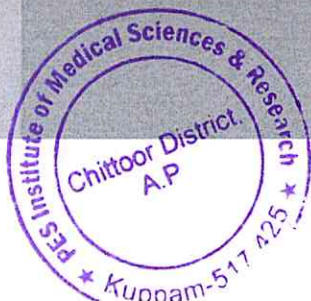
Reg No: 767/PO/Re/S/03/CPCSEA

4. Are there any ANIMALS in Animal house ?

: No as all experiments are done using CAL Lab / Ex Pharma Software

Enclosed: 1 NMC documents
2. Ex Pharma Software documents


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CRITERIA 4.2.3

DETAILS OF THE LABORATORIES, ANIMAL HOUSE & HERBAL GARDEN

ANATOMY LABORATORY

Practical Laboratories :

A) Dissection Hall : YES

- a) Accommodation :
- i) Size : **325 sq.mts.**
 - ii) Capacity : **150 Students**

a) Number and arrangement of tables

- i) Big : **24**
- ii) Small : **08**

b) Hygiene and Drainage facilities for Disposal of Discarded parts.

Yes, Available adjacent to dissection hall measuring 45'x 60 feet covered with mesh & compounded and lock.

c) Mode of disposal of discarded parts :

Buried in burial ground (Back side of Dissection Hall)

d) Washing arrangement : **Provided**

No. of wash basins provided : **Provided with 15 Taps**

f) No. of lockers provided for students : **166 Lockers**

g) Lighting and exhaust arrangements : **Sufficient light & ventilation provided.**
Exhaust fans are provided – 12 nos

h) Special Instruments other than routine Dissection sets

(such as Electric saw etc.)

Bone cutting saw available

Motorized compressed air embalming machine - 02 nos.

i) Extra Learning Aids provided in the Dissection Hall :
(Skeleton, Charts, Black Board etc.)

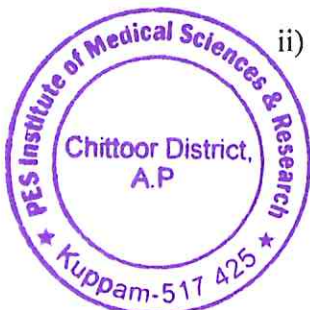
LED-TV-1, 08 Skeletons, charts, and black board are available

j) Cadaver Preservation Facilities :

i) Embalming room

- Size : **12 sq.mts**
- Location : **Adjacent to Dissection hall**

ii) Storage Tanks




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- Number : 06 Nos
- Size : 1 no of 3 Sq.m & 3nos of 1.5 sq.m.
- iii) Cold room/cooling cabinets : Available
 - Size : 18 sq.mts
 - Capacity : 18 Bodies
- iv) No. of Cadavers available : 58 Cadavers
- v) No. of students allotted per cadaver : 10 Students/Cadaver

B) Histology Laboratory

(a) Accommodation

- Size : 200 sq.mts
- Capacity : 90 Students

(b) Working arrangement

a. Seats available : **Revolving stools available**

- Cupboard for storage of microscope slides etc. :

Provided 6 cabinets, 2000 slides

b. Number of Microscopes : **97 Microscopes**

c. Number of students to each Microscope : **One each**

(c) Preparation room

- Size : 18 sq.mts.
- Location : **Adjacent to histology lab**

(d) Whether Laboratory Manuals kept by students? Yes/No : **YES**

(e) Close circuit TV/Demonstration Microscope/any other teaching aids :

OHP, Slide projector, LCD Projector

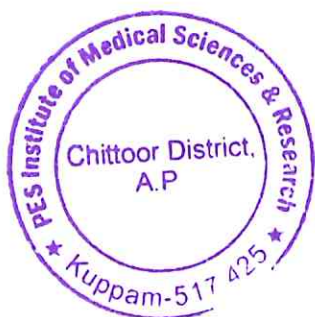
Olympus microscope – Television attached for projection of slides

Pentahead Microscope – Available.

LED TV Available.

(iv) Research Laboratory

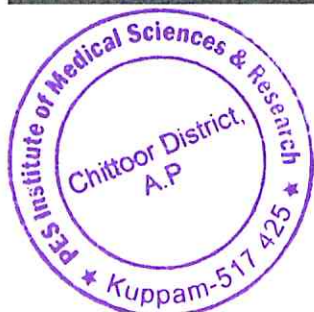
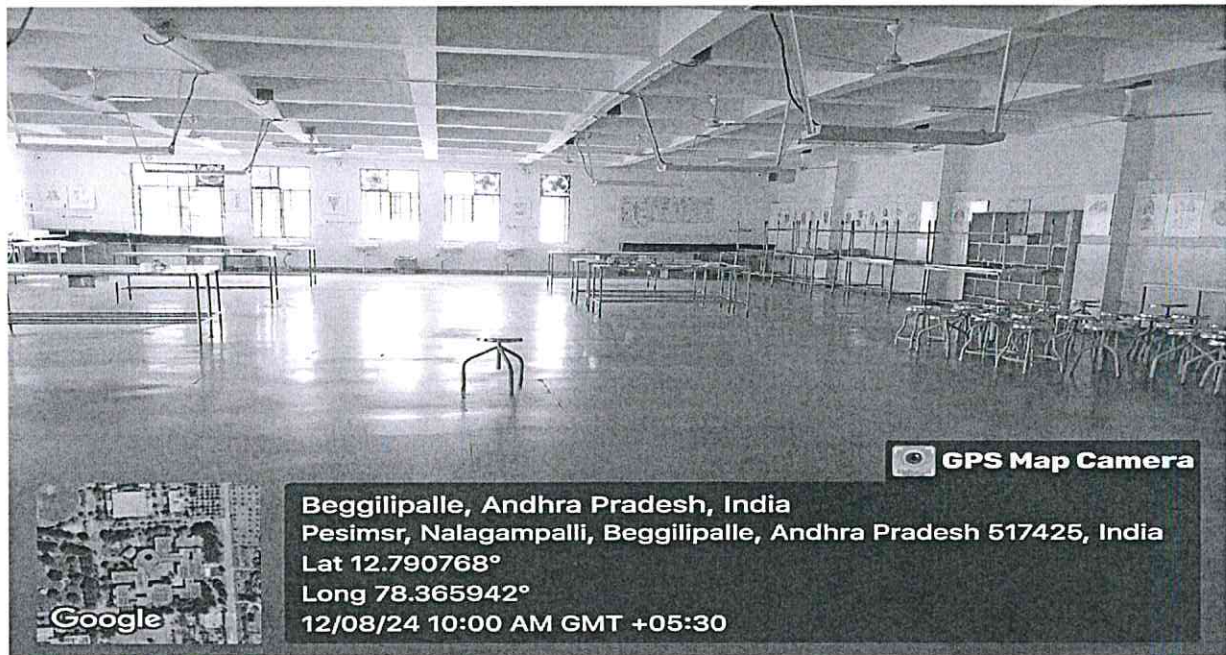
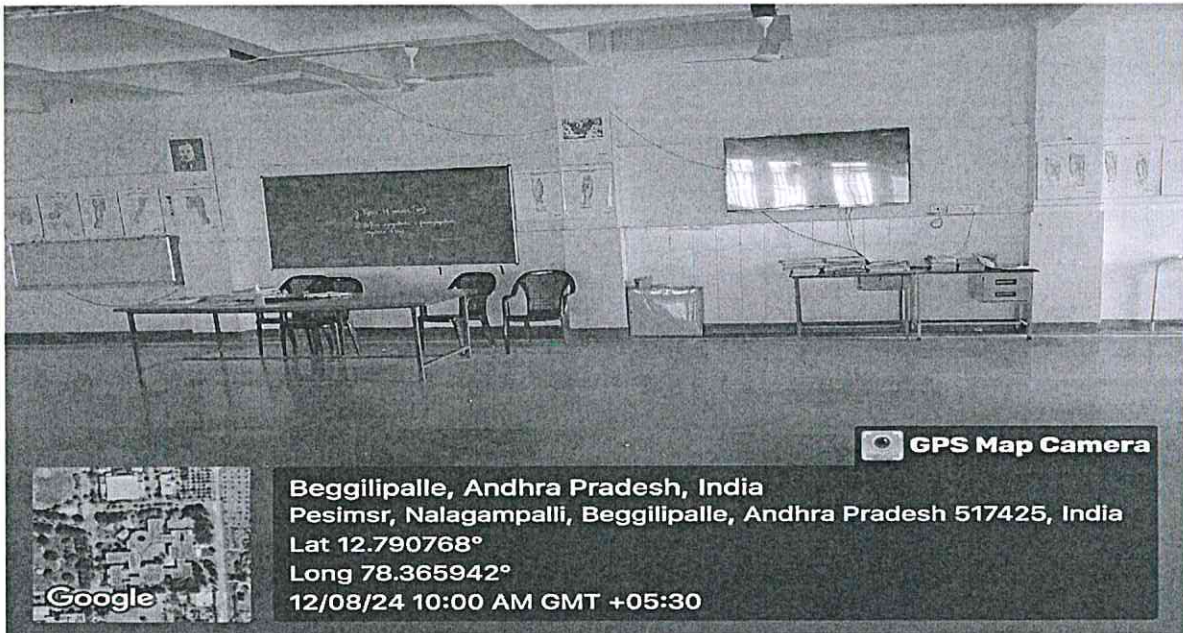
- a) Size : 50 sq.mts




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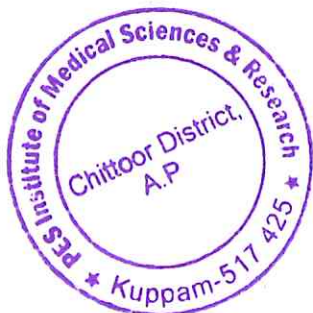
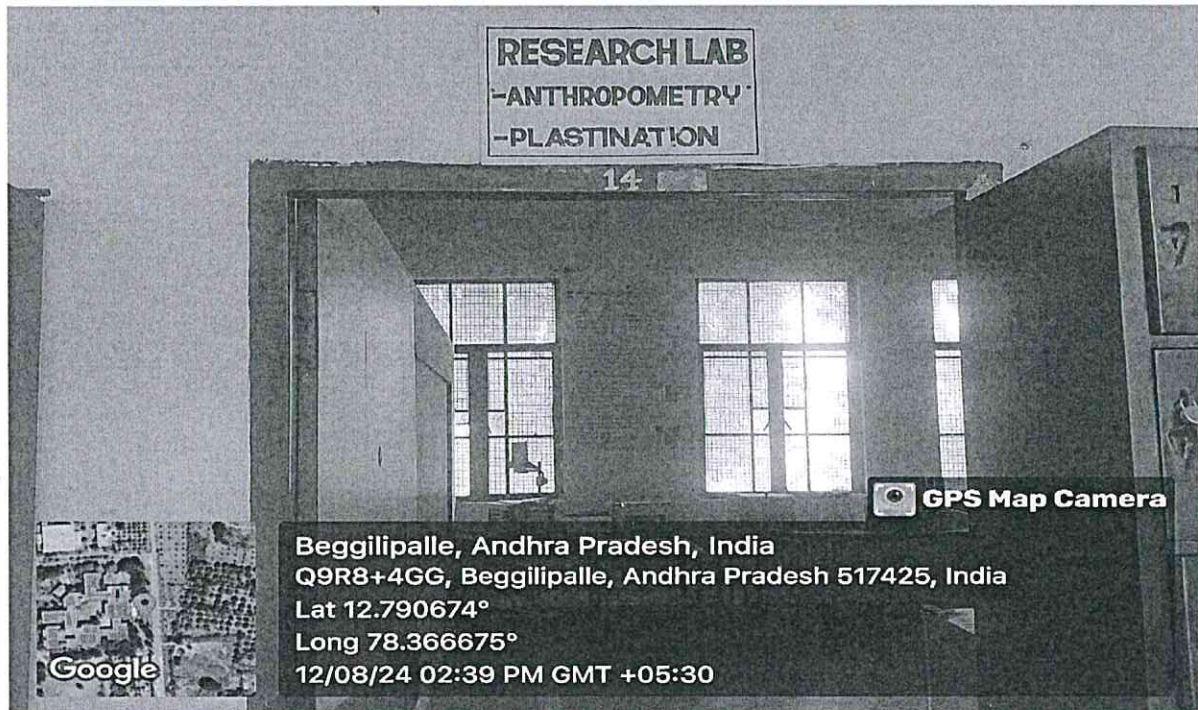
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- b) Equipment : Micro tome, Binocular Microscopes -03, Laboratory centrifuge, Distilled water Plant (Small), Common balancer, Refrigerator, Hot air oven, Anthropometry scales.



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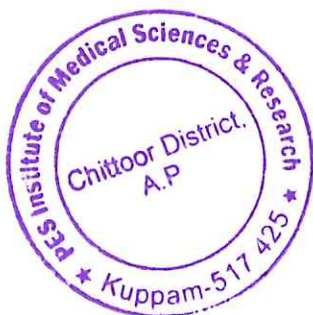
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PHYSIOLOGY LABORATORY

PRACTICAL LABORATORIES:

- | | Clinical Physiology Lab | Hematology Lab |
|---|--------------------------------|-----------------------|
| a) Accommodation | | |
| 1. Size | 118 sqm | 236sqm |
| 2. Capacity | 90 | 90 |
| b) Working arrangement | | |
| 1. Seats available | : 50 | : 50 |
| 2. Water supply | : Provided | : Provided |
| 3. Sinks | : Provided | : Provided |
| 4. Electrical Points | : Provided | : Provided |
| 5. Cupboard for storage of
Microscopes, slides etc | : Provided | : Provided |
| c) Number of Microscopes : 60 + 8 | | |
| d) No. of students to each microscope : 01 | | |
| f) Preparation room : Available | | |
| 1. Size : 14 Sqm X 3 | | |
| 2. Location : 01 each in Amphibian, Mammalian & Haematology Lab | | |
| g) Whether Lab Manuals kept by students: Yes | | |
| h) Close circuit TV/demonstration
Microscope/any other teaching aids. : Available | | |

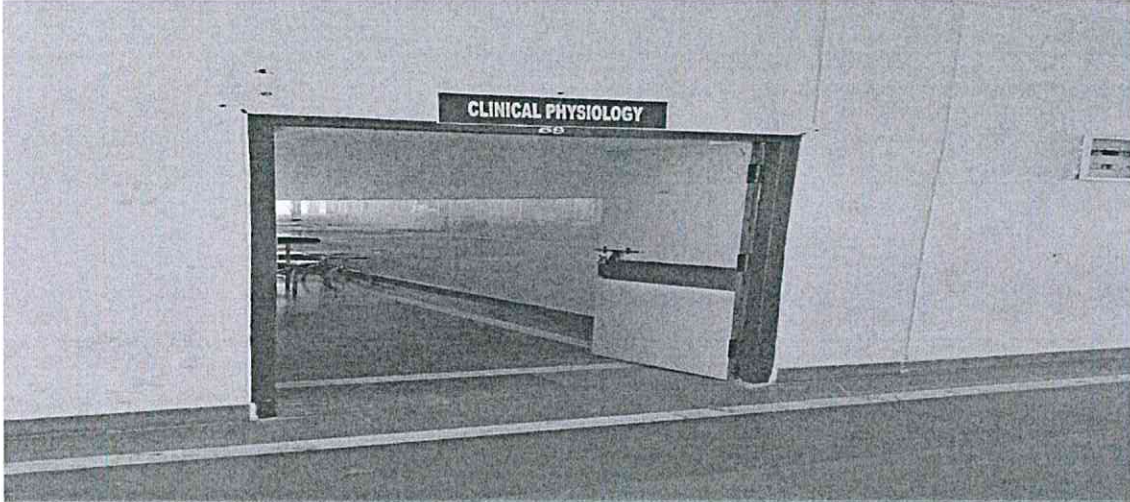



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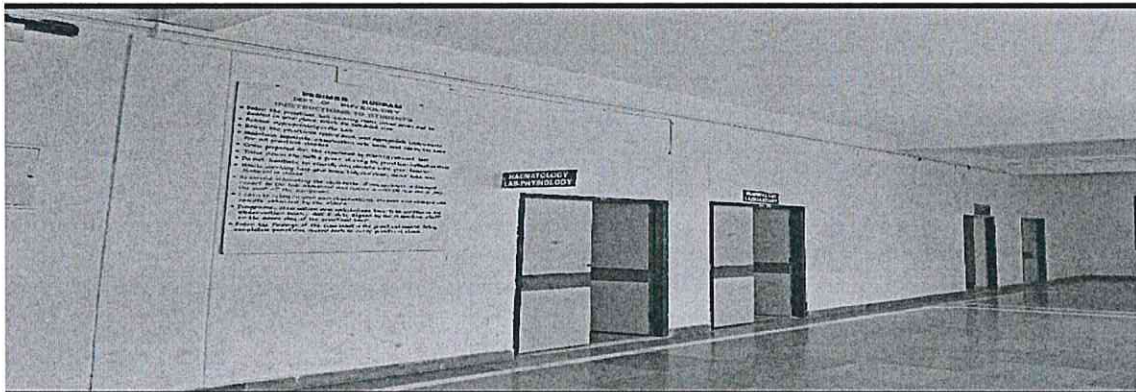
RESEARCH LABORATORY :

Size : 54.53 Sqm



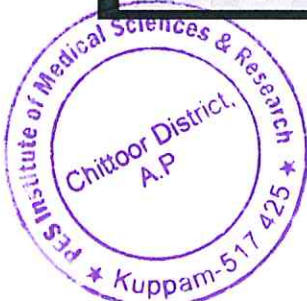
Unnamed Road,
Beggilipalle, Andhra Pradesh 517425, India
09 Aug 2024 05:01 pm

moderate rain
28.0 °C



Q9Q7+7QG Noodles,
Beggilipalle Rd, Beggilipalle, Andhra Pradesh 517425,
09 Aug 2024 04:58 pm

overcast clouds
29.0 °C




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overcast clouds
29.0 °C

Pesimsr, Nalagampalli,
Beggilpalle, Andhra
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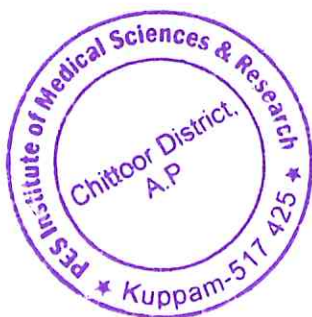


moderate rain
28.0 °C

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Beggilpalle, Andhra
Pradesh 517425, India
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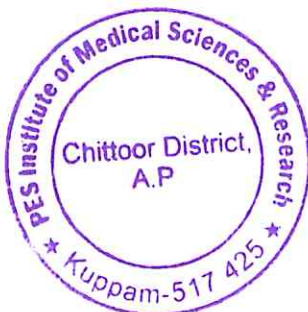
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BIOCHEMISTRY LABORATORY

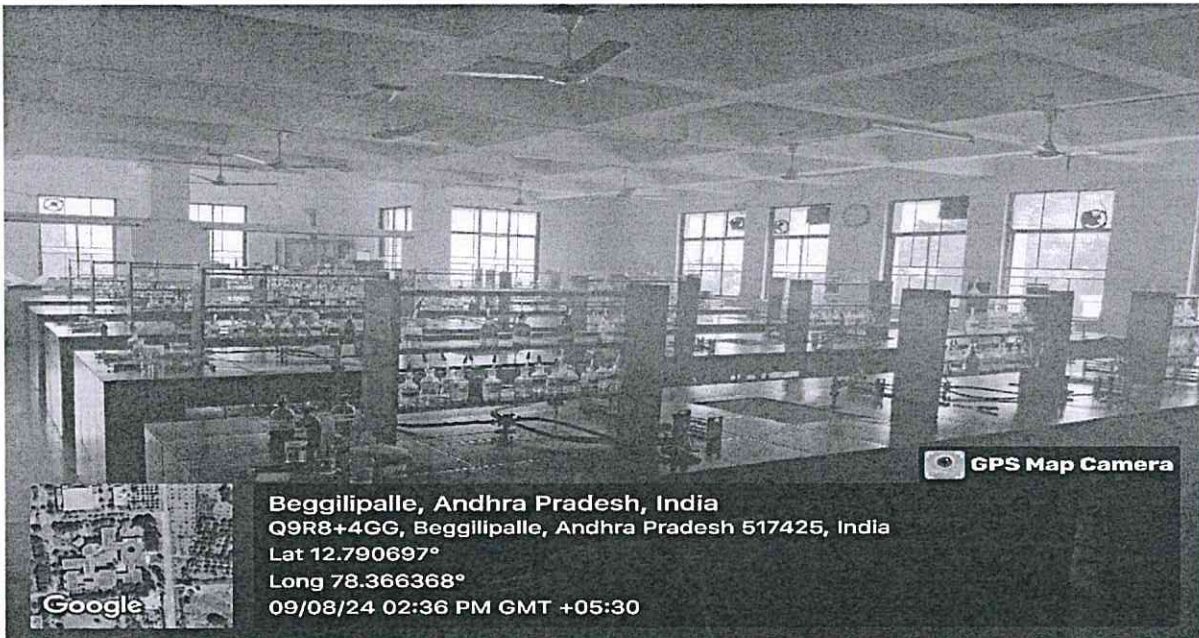
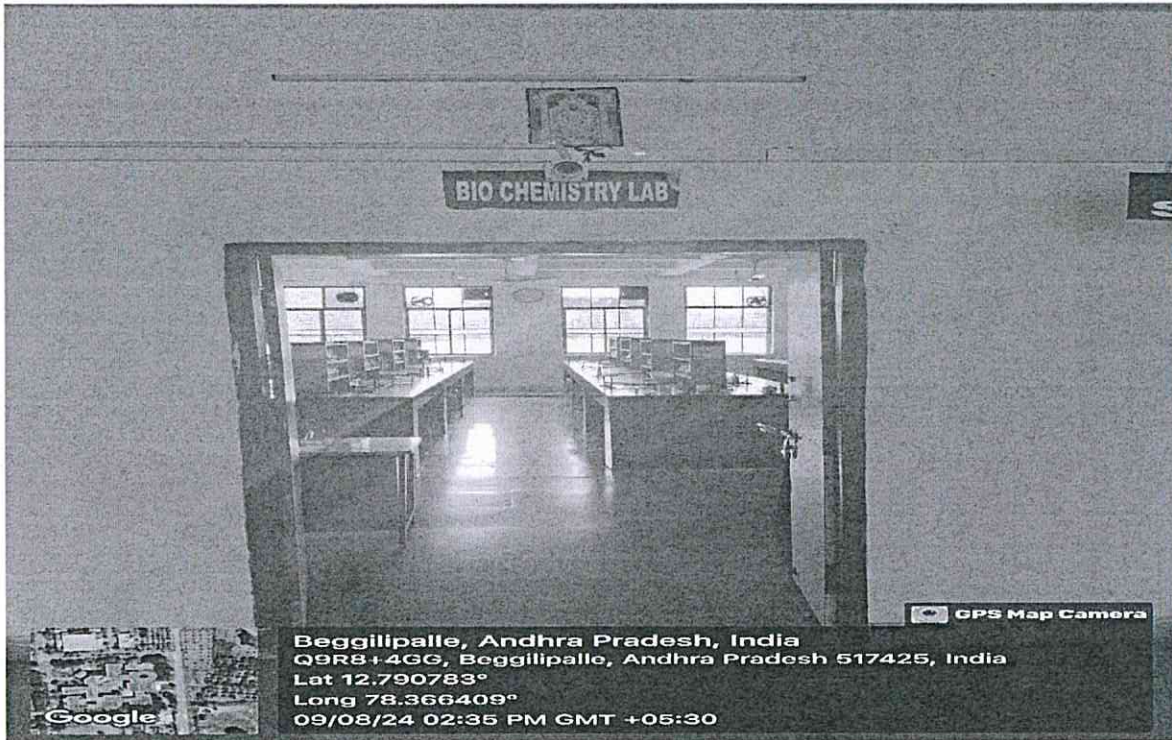
PRACTICAL CLASS ROOM/LABORATORIES:

- a) Accommodation 1 No
- Siz 200 Sq.mt.
 - Capacity: 90
- b) Working arrangement
1. Seats available: 90 Seats available
- Water supply: Adequately provided
 - Sinks :provided in each table
 - Electric points: Provided adequately
 - Cupboard for storage of microscopes: Available
 - Preparation room(anterooms):02
 - Size:14.5 Sq.mt each
 - Capacity:02
- c) Whether laboratory manual kept by students: YES Yes / No
- a) Close circuit T.V./Any other teaching aids. **Black Board / Charts , OHP, LCD Projector & ScreenSMART TV**




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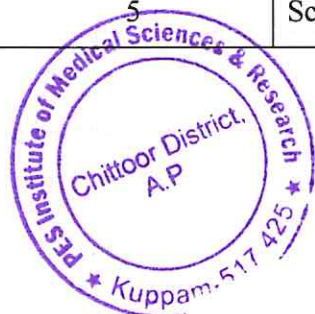
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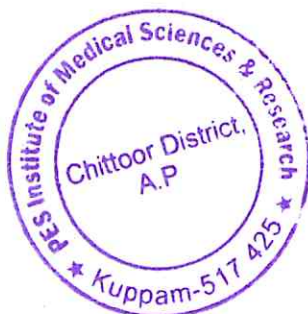
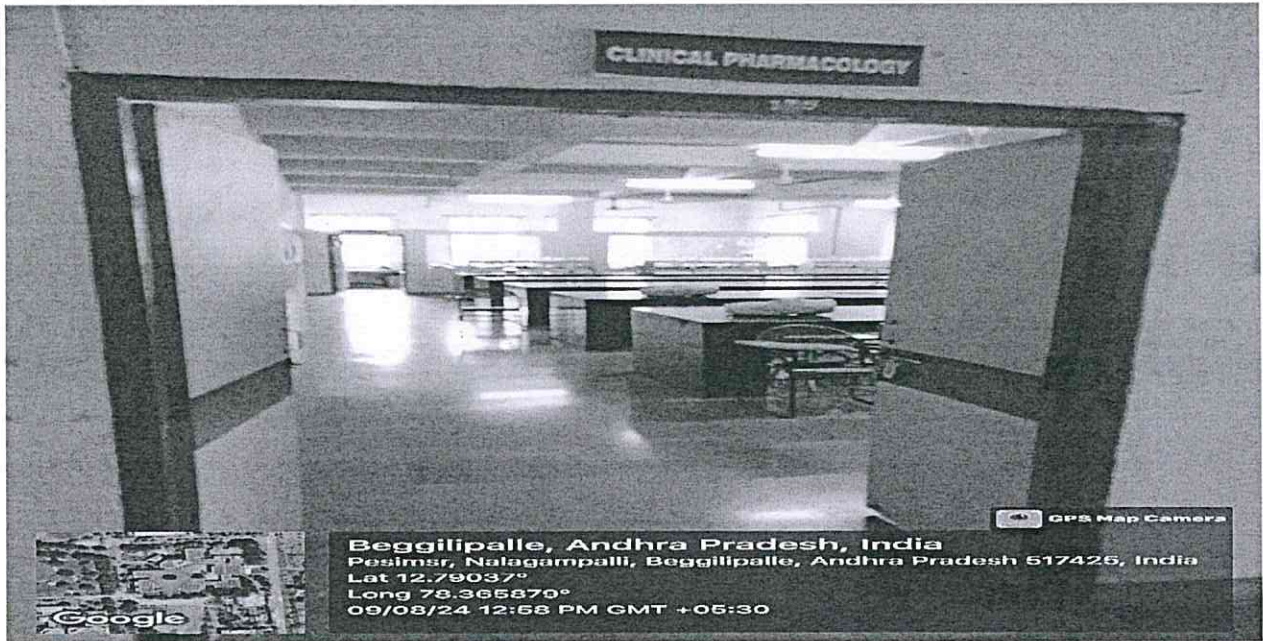
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Sl. No.	ITEM/EQUIPMENT
1	Computers(CAL)
2	Manikins for demonstration of Intravenous / Intramuscular / Subcutaneous
3	Drug Samples of dosage formulations of various types
Sl. No	DOSAGE FORM
1	MDI (Salbutamol)
2	Rotahaler
3	Spacer
4	Nasal Spray
5	Insulin pen
6	Suppository (Dulcolax)
7	PESSARY (Betadine / Clotrimazole)
8	ORS Sachet
9	IV fluids – 5% Dextose
10	NS
11	Ringer Lactate
12	Patch-Transdermal (Diclofenac)
13	Cream – Betnovate
14	Ointment-Soframycin
15	Calamine Lotion (Dermadew)
16	Dusting powder (Neosporin)
INJECTABLES	
1	Ampoules (Avil)
2	Vial Ampicillin
3	Drip Set
4	IV Cannula
5	Scalp vein set



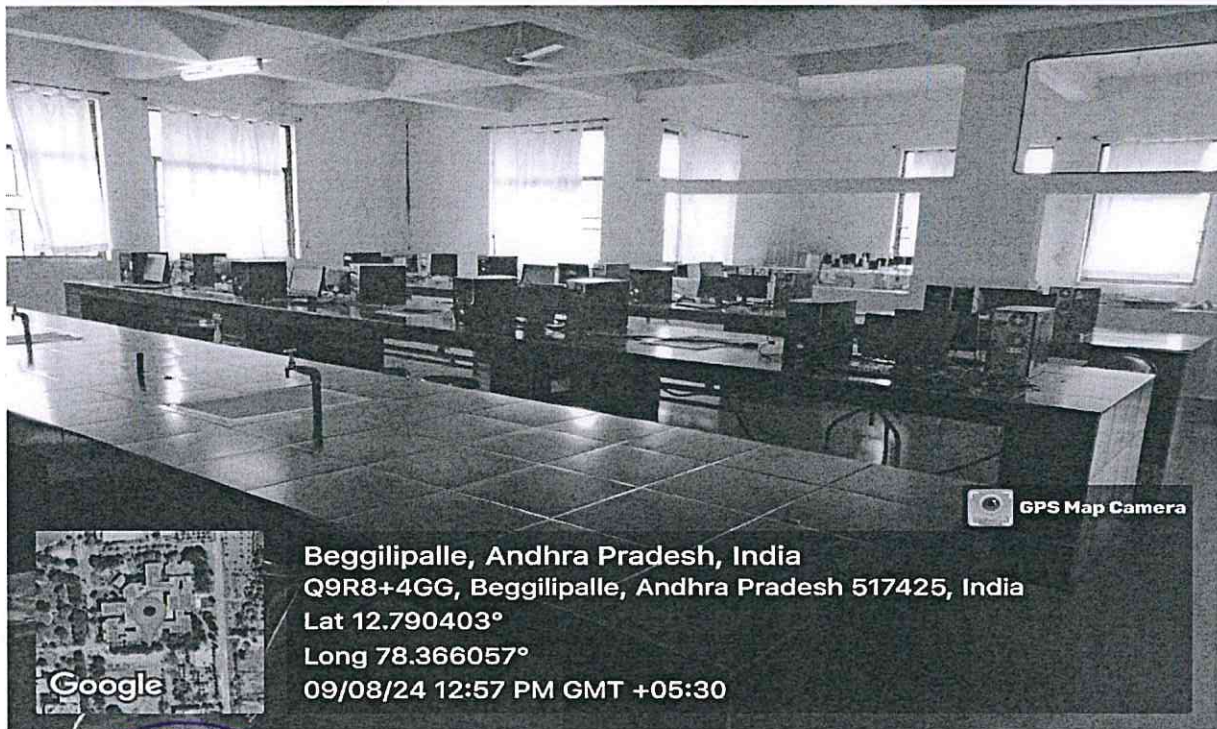
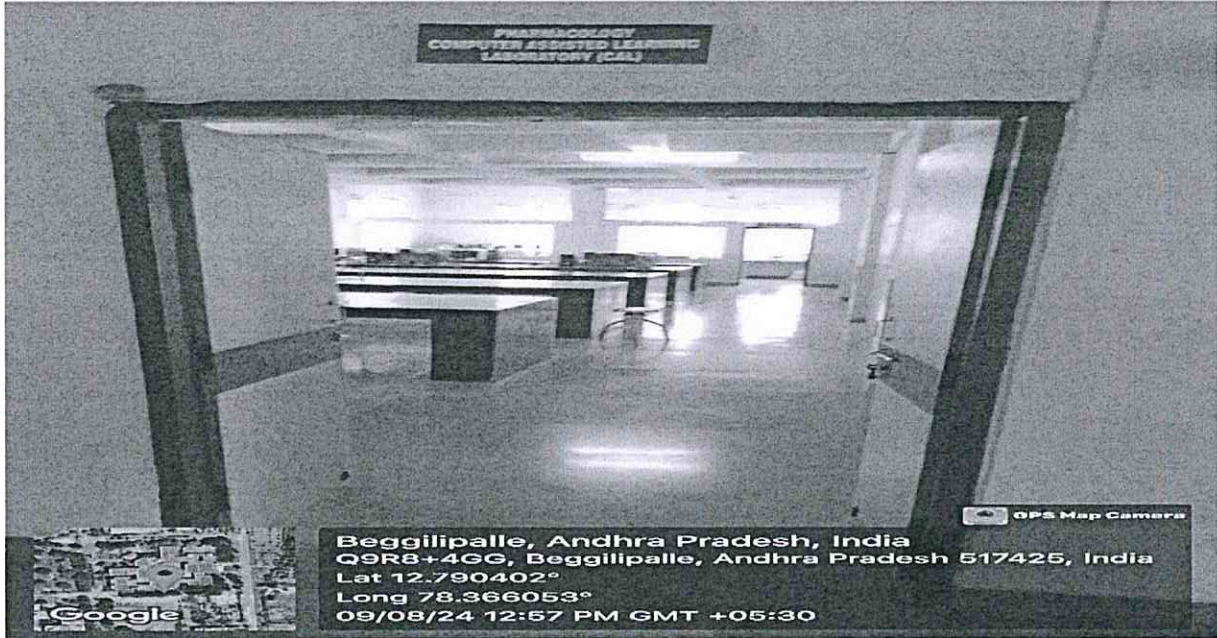

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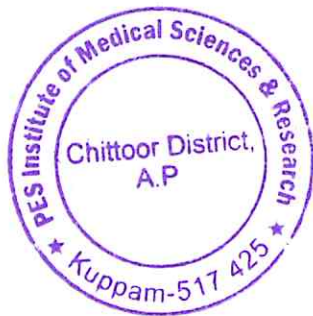
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MICROBIOLOGY LABORATORY

PRACTICAL LABORATORIES:

- a) Accommodation
- Size : 236 Sq.m.
 - Capacity : 90 Students
- b) Working arrangement
- Seats available : Revolving stools
 - Water supply : Provided
 - Sinks : Provided
 - Electric points : Provided
 - Cupboard for storage of microscopes : Available
- c) Main equipment available : Yes




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LABORATORY

Sl. No	DEVICES	NUMBERS
1	Incubators	3
2	BOD Incubator	2
3	Autoclave	4
4	Hot Air Oven	3
5	Laminar Air Flow	1
6	Distilled Water Plant	1
7	Inspisator	1
8	VDRL Rotator	2
9	Centrifuge	2
10	Water Bath	5
11	Microscopes	1
12	Dark Ground Microscope	1
13	Anaerobic Jar	1
14	Candle Jar	1
15	Refrigerator	2
16	Needle Destroyer	1
17	Micro-pipettes	3
18	Electronic Balance	2
19	Computer Printer	1
20	ELISA Reader Dispenser and Washer	1

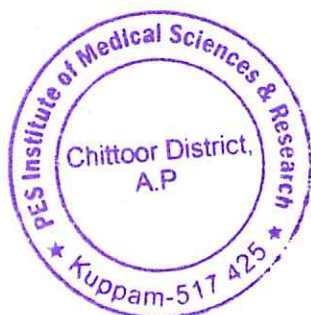



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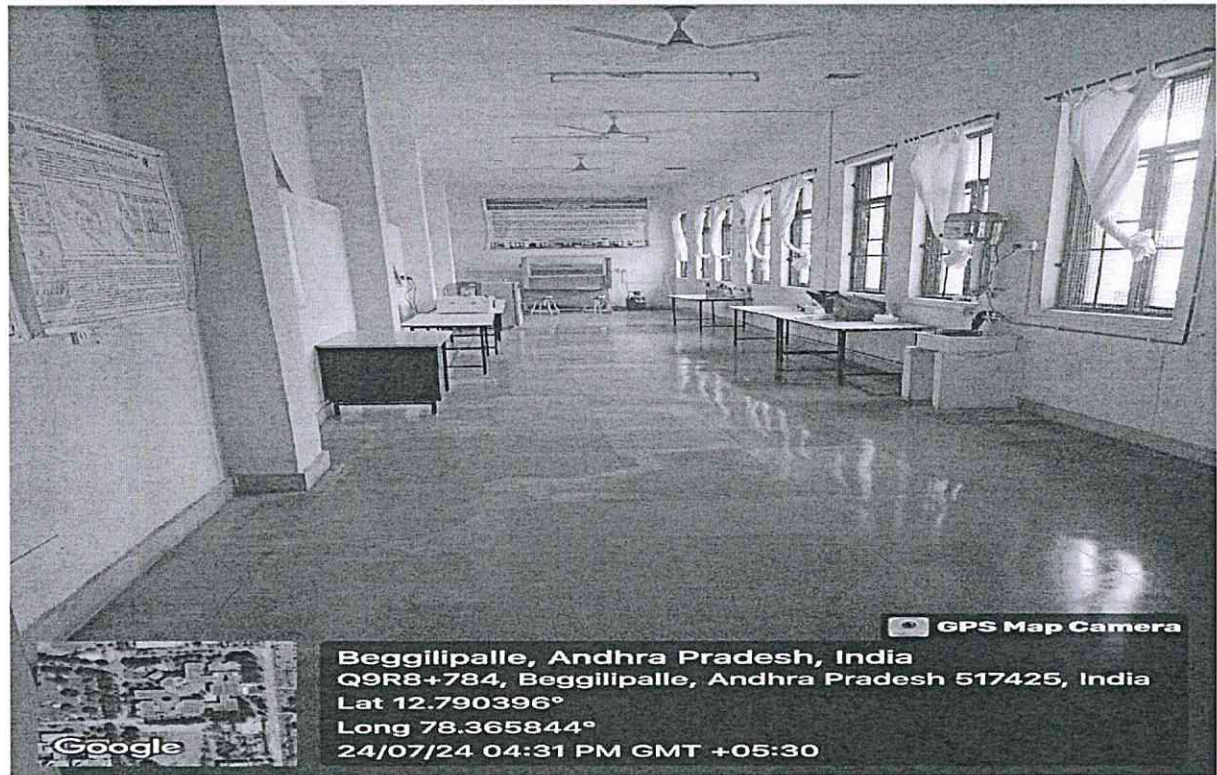
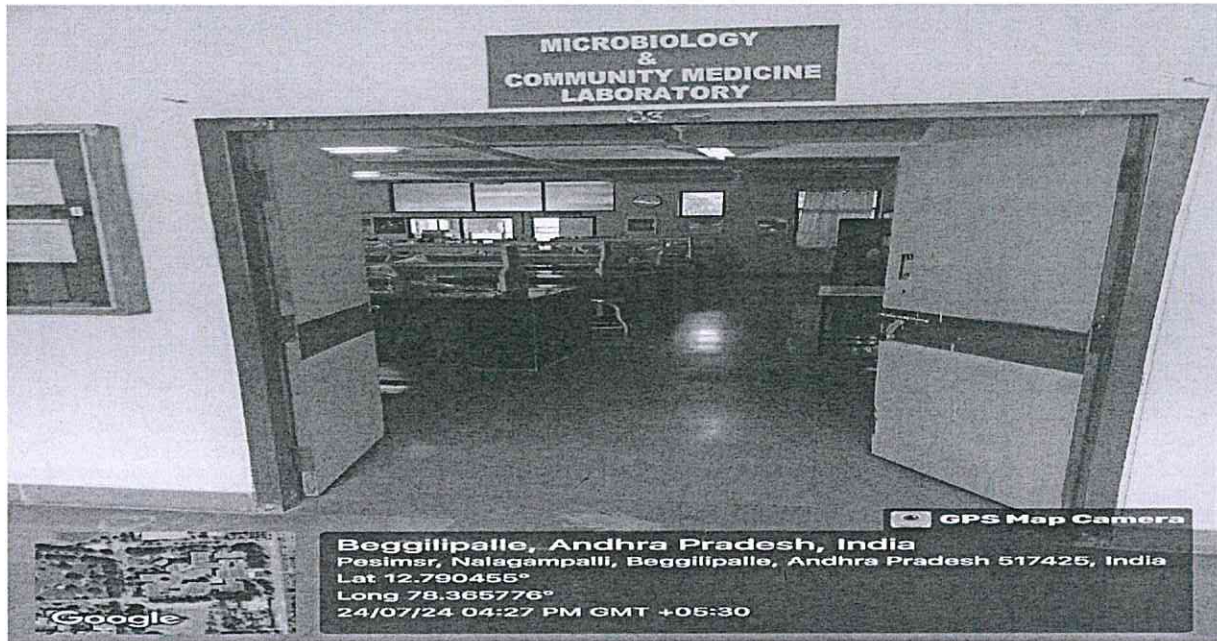
LIST OF EQUIPMENTS IN PRACTICAL HALL

Sl.No	DEVICES	NUMBERS
1	Student Microscope	80
2	Dissecting Microscope	1
3	Centrifuge	1
4	Micrometer	1
5	Dropper Bottles	300
6	Nichrome Wire	10
7	Stop Watch (Racer)	2
8	Bunsen Burner	80
9	Spirit Lamp	85
10	Centrifuge Tube	5
11	Glass Distillation Plant	2
12	Slide Boxes	20
13	Rack for Test tubes (Aluminium)	
	a) ½" x 36 Holes :	8
	b) ½" x 48 Holes :	2
	c) ¾" x 12 Holes :	2
	d) ¾" x 09 Holes	2




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PATHOLOGY LABORATORY

PRACTICAL LABORATORIES:

- a) Accommodation
- Size : 236 Sq.m.
 - Capacity : 90 Students
- b) Working arrangement
- Seats available : Revolving stools
 - Water supply : Provided
 - Sinks : Provided
 - Electric points : Provided




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PRACTICAL LABORATORIES:

Different sections in the department of Pathology:

Section	Area (M ²)	Equipment available
(a) Histopathology	20 x 44 Sq.Ft 6.09 x 13.41sqm	Leica microtome Leica water bath Leica automated tissue processor Microm microtom Leica cryostat
(b) Cytology / Cytopathology	20 x 10 Sq.Ft 6.09 x 3.04sqm	Cytocentrifuge
(c) Hematology	48x48 sq ft 14.63x14.63sq.m	Horiba Pentra5 part auto analyser Beckman Coulter 3 partautoanalyser Hemostarcoagulometer Blood mixer Microscope Refrigerator Water bath Incubator
(d) Fluid section	10 x 10 Sq.Ft 3.04 x 3.04sq m	Centrifuge Refrigerator
(e) Autopsy	10 x 10 Sq.Ft 3.04 x 3.04sqm	Grossing table Dissection and grossing equipments like knives, scissors
(f) Others	10 x 10 Sq.Ft 3.04 x 3.04sqm	Abbot SDUrometer Urine analyser Centrifuge Refrigerator



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DEPARTMENTAL GENERAL FACILITIES:

Particulars	Morbid anatomy	Histopathology	Cytopathology	Hematology	Seminar room	Demo room	Any other lab.(Clinical Pathology)
Size (Area)	10X10Sq.Ft 3.04x3.04sqm	20X44 Sq.Ft 6.09x13.41sqm	20X10 Sq.Ft 6.09X3.04sqm	48x48 sq ft 14.63x14.63sqm	30 Sq.mt	73.75 Sq.mt	10X10 Sq.Ft 3.04x3.04sqm
Capacity					25 seating	50 seating	
Water Supply	Available	Available	Available	Available	-	-	Available
Sinks	Available	Available	Available	Available	-	-	Available
Electric points	Available	Available	Available	Available	Available	Available	Available
Cupboards*	Available	Available	Available	Available	Available	-	Available
Equipment List	Grossing station	Leica microtome Leica water bath Leica automated tissue processor Microm microtome EprediaHistoStar Embedding station Thermoscientific -Cimarec Hot plate Leica cryostat Digital weighing scales	ThermoFisher Cytocentrifuge	Horiba ABX Pentra XL805 part auto analyser Horiba Pentra ES60 5 part auto analyser Hemostar Coagulometer Blood mixer Microscope Refrigerator Water bath Incubator	Computer with internet facilities	Computer with internet facilities Television system Audio system	Abbot SDUrometer Urine analyser Centrifuge



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