INFRASTRUCTURE

DEPARTMENT OF PHYSIOLOGY

The Department of Physiology occupies three wings in the second floor of the Sri Ramachandra Medical College and Research Institute, Sri Ramachandra Institute of Higher Education and Research. The first wing contains the Human Research Laboratory, Departmental Library and one Demonstration Hall. The second wing contains the Hematology Laboratory and Clinical Laboratory. The third wing contains the Mammalian Laboratory, Amphibian Laboratory and one Demonstration Hall.

The following laboratories are provided with adequate space to accommodate 125 - 136 students.

- **I. Amphibian Laboratory (300sq.m.area):** It is used for the demonstration of amphibian experiments to the students. One preparation room is provided with the amphibian laboratory. This is equipped with working tables along with drawers, cupboards with electric point and Biometric systems.
- **II. Mammalian Laboratory (120sq.m.area):** It is equipped for the demonstration of mammalian experiments. One preparation room is provided with the mammalian laboratory. This is provided with tables. The laboratory is also provided with instrument rack, two large size wash-basins and cupboards for storing equipments.

III. Human Laboratories:

- **a.** Haematology Lab (250sq.m.area): This is used by the medical students to perform hematology experiments. One preparation room is provided with the hematology laboratory. This is equipped with continuous working tables. Every seat is provided with washbasin. Every working table is provided with one drawer, one cupboard, an electric point with fire and steam proof top and Biometric system.
- **b. Clinical Lab (120sq.m.area):** This is used by the medical students to perform clinical experiments, which forms a substantial part of the preclinical laboratory curriculum. This is provided with 12 tables (height0.8m.) It is equipped with the Bicycle Ergometer, Benedict Roth apparatus, Spirometer, Ergograph, Stethograph etc.
- **IV. RESEARCH LAB (56 sq.m.area):** This is utilized for research purposes and patient care. Autonomic Laboratory is available and it is equipped with RMS-CANWIN and RMS Polyrite to perform autonomic function tests. Research lab is also equipped with 8 Channel polygraph, Physiograph, RMS-EEG, RMS-Evoked potential, RMS-EMG, RMS-NCS, RMS-VARIOWIN(HRV), SMART-MEE PFT, Computerized KOKO spirometer, Stereotaxic instruments, pH meter, Colorimeter, UV spectrophotometer etc.

EQUIPMENTS IN LAB

S.No	RESEARCH	HAEMATOLOGY	CLINICAL
1		Microscopy on the move	Benedict's Roth Recording
1.	Polyrite RMS Computerised	(Cilika)	Spirometer
2.	Spirometer PESO		Martin Bicycle Ergometer
۷.	computerized	Microscope – Binocular	(Inco)
3.	Data Acquistion System 4		Computerized ECG Machine
J.	Channel with acc	Neubauer Chamber - Weber	BPL
4.	ECG Machine Computerised		Colour Perception Lantern
	GE	Centrifuge Electrical 4 Tube	Edridge Green
5.	Martin Bicycle Ergometer		
	(Inco)	Distillation Plant-S.S	Mosso's Ergometer
6.	Physiograph Recorder-		
	Student Type Sc/dc with	Navibassa Chasabaa Cda	Devianatas Chadast Tana
	accessories)	Neubauer Chamber – Gdr	Perimeter-Student Type
7.	Contribute High Speed	laguhatar	Physiograph Recorder-
8.	Centrifuge High Speed	Incubator	Student Type TC Colour Mixer
9.	Stereo Taxic Equipment	Micropipette	Ishihara's Chart
9.	Spectrophotometer Mixie – (Remi), Dessicator,	Balance-Physical	Islillara's Chart
10.	Mortar & Pestle	Mini Autoclave	Ophthalmoscope
	Wortan & Festie	Willin Autoclave	Stethograph & Marey's
11.	Refrigerator	Haemoglobinometer-Set	Tambour
	Nem gerator	ridemographiometer set	Sphygmomanometer Aneroid
12.	Slide Warming Table	Microscope-Student Type	Type
	Stirrer Electrical with 2mm	7,1	
13.	Hot Plate 2 Lit Cap – Magnetic	Microscope-Eye Piece 5x	S.S.Drum Electrical
	1 3	, ,	Oxygen Cylinder-
14.	Tissue Floatation & Process		Regulator,Flowmeter,Key&Tr
	Unit	Microscope-Eye Piece 15x	olly
15.		Porcelain Tile Square&	
15.	Soxlet Apparatus	Rectangle	Spirometer Student Type
16.	Algometer	Rack - Tube-Aluminium	Snellen's Chart (Built in Lamp)
17.	Colour Perception Lantern		
	Edridge green	Rack - TubeWooden	Percussion Hammer- Regular
18.		Stop Watch – 1/10,1/5	
10.	Newtons Colour Wheel	&1/100	Stethoscope
19.	Tissue Paraffin Embedding	Slide Box- Plastic (Glass Slide	Stethoscope-Demonstration
	bath – Elec, Op	50)	with multiple ear pieces
20.	Function Generator	Timer HES	Wright Peak Flow meter
21.		6. 134% . 1 5 3	Hair & Compass
	Homogenous Tissue Grinder	Stand-Wintrobe For 3	Aesthesiometer
22.	Weighing Machine	Wall Clock Quartz	Tuning Forks
23.	Elec. Burr Variable speed	Esrite (ESR Kit)	Hand Grip Dynamometer
24.	Instrument Trolly – SS Top	Micro Haemotocrit	Hand – Refractometer

EQUIPMENTS IN LAB

S.No	AMPHIBIAN	MAMMALIAN	
1	Dissection Board	Aerator	
2	S.S.Drum Elec	Kymograph Long Paper (Museum)	
3	Enamel Tray- Rectangular 7"X9", 9"X11",10"X13",11"X13",12"X15"	Perfusion Funnel	
4	Lever- Heart	Operation Table Large Animal(Museum)	
5	Muscle-Isotonic-Lever	Organ Bath Isolated Tissue	
6	Lucas Muscle Trough	Physiograph Recorder-Student Type Dc	
7	Pohl's Commutator	Physiograph Recorder-Student Type Tc	
8	Clamp-Muscle Grip Femur Clamp	Respiratory Pump (Museum)	
9	Clamp-Muscle Grip V-Clamp Small	Retractor- Longer	
10	Crank Myograph-Frog Board	Retractor-Moses	
11	Scissors-Curved 3 1/2"	Stimulator Research	
12	Scissors-Straight Blunt 5" – 7"	Stimulator Student	
13	Electrode simple	Thermometer Lab 0-110c	
14	Enamel Bowl 11cm	Thermometer Lab 0-600 C	
15	Scissors- Plaster Cutting 7 1/2"	Time Marker Elec-Single Lever	
16	Scissors- Sharp4" – 8"	Time Marker Elec-Double	
17	X-Blocked –Closed/ Opened, Large/ Small	Time Marker Direct	
18	Bone Cutter	Stand for Enamel Basin	
19	Short Circuit Key -2t,4t	Vibrating Interrupter	
20	Forceps- Ordinary Straight 4" -7"	Water Bath – Electrical	
21	Forceps- Cheatle 7 1/2	Hot Air Oven	
22	Forceps-Artery Curved & Straight 6"	Extension Board- Large	
23	Forceps-Alice Tissue	Forceps- Iris -Curved 3 1/2	
24	orceps-Iris -Curved 4" Forceps- Artery Curved 3 1/2		