

NAAC CRITERIA 04: Infrastructures and learning resources

DOCUMENT CODE: 4.1.1

The Institution has adequate facilities for teaching - learning. viz., classrooms, laboratories, computing equipment etc.

CONTENTS

Sr. No	Particulars	Page No.
1.	List of facilities for teaching learning	2
2.	List of laboratories	3
3.	Machine Room Details	4
4.	Instrument Room Details	8
5.	Details of Laboratories	9

4.1.1 List of available teaching-learning facilities such as Classrooms, Laboratories, ICT enabled facilities including Teleconference facilities etc.

Table 4.1.1a. List of facilities for teaching learning

Facility	Number	Capacity (No. of students)	Dimensions with area (sq.mt.)	Description
Class rooms	05	70	75	Seating capacity 70 ICT enabled LCD Projector (per class room), OHP projector, White board Interactive board, Internet UPS back up Teleconferencing
Tutorial Room	4	20	36	Seating capacity -----40 ICT enabled
Seminar Hall	01	120	176	120 Fixed Chairs ICT enabled LCD Projector Internet UPS back up

Table 4.1.1b List of laboratories

Sr.No.	Lab Description
1	Pharmaceutical Chemistry Laboratory-1
2	Pharmaceutical Chemistry Laboratory-2
3	Pharmaceutical Chemistry Laboratory-3
4	Pharmaceutical Analysis Laboratory
5	Pharmaceutics laboratory-1
6	Pharmaceutics laboratory-2
7	Aseptic room
8	Pharmacognosy laboratory
9	Pharmacology laboratory-1
10	Pharmacology laboratory-2
11	PG-Pharmaceutical Chemistry
12	CADD Room
13	PG-Pharmaceutics
14	PG- Quality Assurance Techniques
15	Machine Room
16	Instrument Room
17	Computer Lab
18	PG- Pharmacology

Table 4.1.1 c Machine Room Details

Sr. No	Name of equipment	SOP number	Make	Model	Availability of Log Book (Yes/No)	Safety measures
1	Main drive	MR 001-01	Inweka	IV MD Sr.No 401104.0811	Yes	Availability of electric earthing, Fire-hydrant system, Exhaust fan, UPS back up, Multi circuit breaker , Students wearing cap/apron, Glass shutters are provided as a
2	Universal gearing	MR 002-01	Inweka	Model-Universal Gear, Sr.No. 402107.0811	Yes	
3	Dry granulator	MR 003-01	Inweka	Model-Dry Granulator, Sr. No .420109.0811		
4	Wet granulator	MR 004-01	Inweka	Model Wet Granulator, Sr. No . 419108.0811	Yes	
5	Planetary mixer	MR 005-01	Inweka	Model- Planetary Mixer, Sr.No . 404111.0811	Yes	
6	Ball mill	MR 006-01	Inweka	Model- Ball Mill,	Yes	

				Sr.No . 428112.0811		safety measures during handling of compression machine
7	Double cone mixer	MR 007-01	Inweka	Model- Double cone Mixer, Sr.No . 411110.0811	Yes	
8	Homogenizer	MR 008-01	Inweka	Model - Homogenizer, Sr.No . 421113.0811	Yes	
9	Mechanical lab stirrer	MR 009-01	Remi, Mumbai	FEUG 14750	Yes	
10				FEUG 14752	Yes	
11				FEUG 16353	Yes	
12				FEUG 14748	Yes	
13				FEUG 14753	Yes	
14	Environmental test chamber -1	MR 010-01	Remi, Mumbai	1 HC 2015	Yes	
15	Environmental test chamber -2	MR 010-01		1 HC 2016	Yes	
16	Ointment Filling Machine	MR 011-02	-	-	Machine Room	
17	Hardness tester	MR 012-02	Modern lab instruments	Monsanto type	Yes	
18	Disintegration test apparatus	MR 013-02	Metalab	H651	Yes	
19	Vernier caliper	MR014-01	Advance	Dial Caliper	Yes	

20	Collapsible tube sealing machine	MR 015-02	Dolphine	-	Yes
21	Coating pan	MR 016-02			Yes
22	Digital weighing balance	MR 017-02	Sansui	JW, Sr No:140101937	Yes
23	Friability apparatus	MR 018-02	Metalab	4652	Yes
24	Digital bulk density apparatus	MR 019-02	Metalab	Innovative XCN774, H691	Yes
25	Cooling centrifuge	MR (QA) 020-01	Remi, Mumbai	VCCA-2560	Yes
26	Capsule filling machine	MR 021-02	Dolphin	CF 136 S/O	Yes
27	Brookfield Viscometer LV	MR 022-01	Brookfield Engg. Lab	DVE	Yes
28	High Speed Homogenizer	MR 023-01	Ika	T-25 IKA ULTRA TUREX	Yes
29	Digital Lab stirrer	MR 024-02	Remi, Mumbai	ELF 1377	Yes
30	Digital Lab stirrer	MR 024-02	Remi, Mumbai	ELF 1378	Yes
31	Dissolution test apparatus	MR 025-02	Electrolab, Mumbai	Equipment no. 1309322 (08L)	Yes
32	Multiple punch compression (Minipress)	MR 026-02	Karnavati	Rimek	Yes
33	Orbital shaker	MR 027-01	Remi.	IHC 3193	Yes

			Electrotechnik			
34	Tablet Coater	MR028-00	ACG Pharma Technologies PVT Ltd.	Mini Quest T	Yes	
35	Bottle filling Machine	MR029-01	-	-	Yes	
36	Bottle Crimper	MR030-01	-	-	Yes	
37	Collapsible tube filling machine	MR031-01	-	-	Yes	
38	Spray Dryer	MR(PH)32-02	Labultima	LU-222 ADVANCED	Yes	
39	Digital hardness tester	MR034-01	Laboratory Enterprises	-	Yes	
40	KBR Hydraulic Press	MR 035-01	PCi	-	Yes	
41	UV Cabinete	MR 036-01	DSA	-	Yes	
42	Spreadability Apparatus	MR 037-01	-	-		
43	Rapid mixer granulator	MR038-00	General Mechanical Industries	HSMG-5	Yes	
44	High pressure homogenizer	MR 035-01	Dyhydromatics	Sharejet HL60	Yes	
45	Probe sonicator	MR 034-01	TECSYS India	ATP 500 LED	Yes	

Table 4.1.1 d Instrument Room Details

Sr. No	Name of equipment	SOPs number	Make	Model	Log books (Y/N)	Safety measures
1.	Digital Balance	1	Shimadzu	AUX220	Yes	Availability of electric earthing, Fire-hydrantsystem, UPS back up, Multi circuit breaker, Students wearing cap and apron.
2.	Binary High Pressure Gradient HPLC	4.1 - 4.5	JASCO	PU 2080 plus	Yes	
3.	UV-Vis Spectrophotometer	2.1 - 2.6	JASCO	V-630	Yes	
4.	FT-IR Spectrophotometer	3.1 - 3.6	Shimadzu	IRAffinity-1	Yes	
5.	KBr die set , hydraulic pellet press	6.1 - 6.2	PCI Analytic	---	Yes	
6	HPLC system	-	Waters	e2695 quaternary low pressure gradient HPLC system with PDA detector equipped with Empower 3 Software	yes	

Table 4.1.1 e Details of Laboratories

Lab Description	Batch size	Rooms/Labs equipped with		Quality of instrument	Safety measures	
		Equipments/quantity	Availability of			
Department of Pharmaceutical Chemistry Total Laboratories :04 Including preparation room and balance room	20		SOP	Manual	Availability of material safety data sheets, electric earthing, Fire hydrant pump systems, UPS back up, Multiple Circuit Breaker, Hand gloves, Eye washer, Safety goggles, High ventilation Windows , Students wearing aprons and caps during practical	
		UV-Vis Spectrophotometer (01)	√	√		Shimdzu 1800
		pH meter(01)	√	√		Systronics 361
		Conductometer(01)	√	√		Systronics 301
		Refractometer (01)	√	√		Dolphin 1078
		Flamephotometer (01)	-	√		Systronic 130
		Deep freeze (01)	√	-		Blue Star CHF300B
		Nephelo-turbidometer (01)	√	√		Systronics 132
		Photoflurometer (01)	√	√		Systronics 152
		Polarimeter (01)	√	√		Dolphin 1079

		Sonicator(01)	√	-	PCi 1.5L50
		Centrifuge (01)	√	-	Remi
		Oil free Vacuum Pump (01)	√	-	INSTU
		Solvent filtration kit (01)	√	-	PCI Analytics
		Ball & Stick Model(01)	√	-	Molecular Vision
		Electric Oven(01)	√	√	Dolphin
		Electric Water Bath(02)	√	-	Dolphin
		Heating Mantle(21)	√	-	Dolphin
		Hot Plate(01)	√	-	Dolphin
		Magetic Stirrer-Hot Plate (01)	√	-	Remi
		Fume Chamber (01)	√		Lab Exel
		Vaccum pump (01)	√		J B Vak
		Digital Balance (01)	√		Sansui

		Triple Beam Balance(01)	√			
		Analytical Balance(01)	√			
Department of Pharmaceutics Total Laboratories :03 Including a preparation room and aseptic room with air lock cabinet, pass box, garment cabinet, Laminar flow work station – (horizontal flow type)	20	Glass Double Distillation unit (Water)-01	√	√	Borosil	Availability of material safety data sheets, electric earthing, Fire hydrant pump systems, UPS back up, Multiple Circuit Breaker, Hand gloves, High ventilation Windows , Students wearing aprons, mask and caps during practical.
		Hot Air Oven (01)	√		Meta lab	
		Digital Electronic Balance(01)	√		Sansui	
		B.O.D Incubator(01)	√		Lab Line	
		Autoclave (01)	√		Dolphin	
		High Pressure Gas Burner (02)			Fuel king	
		Sieve Shaker (01)	√		Fuel king	

Department of Pharmacology Total Laboratories:03 Including a preparation room and a separate animal house (CPCSEA Approved Registration Number: 1344/ac/10/CPCSEA)	Microscope (10)	√		Unilab India	Availability of material safety data sheets, electric earthing, Fire hydrant pump systems, UPS back up, Multiple Circuit Breaker, Hand gloves, High ventilation Windows , Students wearing aprons, mask and caps during practical.
	Hemocytometer (24)	√		Rohem India Silverlite	
	Sahli'sHaemoglobinometer (20)	√	√	A Q R A SAHLI	
	Hutchinson's Spirometer 01	√		Orchid	
	Sphygmomanometer (08)	√		Medi Touch	
	Stethoscope10	√		Konica DX	
	Centrifuge (01)	√	√	Remi	
	Electronic balance (01)	√	√	Sansui	
	Digital Electrophoresis Apparatus (01)	√	√	Systronics	
	Colorimeter (2)	√	√	Systronics	
	Sherington rotating drum(18)	√		INCO Scientific Industries	
	Perspex student organ bath (24)	√		Orchid	
	Actophotometer (01)	√		Omega	
Rotarod (01)	√		Omega		

		Cook's pole climbing apparatus (01)	√		Omega	
		Eddie's hot plate analgesiometer (01)	√		Orchid	
		Electroconvulsimeter (01)	√		Orchid	
		Digital pH meter (01)	√			
		Bioanalyzer	√	√	Curionics	
Department of Pharmacognosy Total lab: 01 Includes preparation room, crude drug museum and medicinal plant garden	20	Steam Distillation Unit-01	√		Metalab	Availability of material safety data sheets, electric earthing, Fire hydrant pump systems, UPS back up, Multiple Circuit Breaker, Hand gloves, High ventilation Windows , Students
		Medical microscope-20+5	√	√	Unilab	
		Mixer-01	√		Bajaj	
		Refrigerator-01	√	√	Godres axis	
		Table Lamps-06	√		Ekvira electrical	
		Heating Mantle	√		Unilab	
		Trinocular microscope-01	√		Olympus	
		Muffle Furnace-01	√		Omkar	
		Digital Balance-01	√		Sansui	
		Digital Camera -01	√		Canon	
		System UV Cabinet-01	√		Dolphin	

						wearing aprons and caps during practical.
		Antibiotic zone reader	√		Spacelab	
		Incubator	√		Metalabs	
		Autoclave	√		Dolphin	
		Digital Colony Counter	√		Dolphin	