# **Department of CHEMISTRY - Research Facilities**

Sl. No.	Name of the instrument/equipment	Specializations	Brief Description	Instrument / Equipment
1	UV-Vis Spectrophotometer	Double Beam / PD Array	For Optical and kinetics measurements	
2	Digital Balance	3-Digit precision	For Weighing micrograms	
3	Ultra-sonicator	Probe Type	For ultrasonic liquid reactions	CAUCA

4	Muffle Furnace	Up to 900 C	Dual set Programmable	TEO MAPRIE PUNNACIO
5	Dielectric constant kit	Dual mode	For solid samples	DIELECTRIC CONSTANT KIT (FOR SOLIDS)  5C2  5C3  5C3  5C3  5C3  5C3  5C4  5C3  5C3
6	Hydraulic press	15 Tons	With 4 different types of Sample dye	ATEL COMMANDE PRESS

7	ICE Maker	0.625 kg/Hr	3 different cube size	PARMI I
8	Water Distillation Unit	3.5Ltrs/Hr	double jacket condenser with ceramic coil	

S.No	Name of the equipment	Specifications	Briefdescription	Equipment
9	UV-Cabinet	Dual wavelength	For Chromatographic Development	
10	Micropipette	2-20/20-200/100- 1000 Microliters'	For low volume sample preparation	TARSONS
11	High speed centrifuge	with Rotors of 3 different volume	programmable with up to 24k rpm	BEAL BACK
12	Magnetic stirrer	With RPM controller and heating element	suitable for reactions up to 500 ML	POST OF THE POST O

	Universal Testing Machine	5kN	To measure mechanical properties of paper and polymers	
14	Laser Particle Sizer		TO measure polymers and nanomaterials/ particle sizes	fail fail

S.No	Name of the equipment	Specifications	Briefdescription	Equipment
13	IHvdrothermal Reactor	reactor	suitable for Hydrothermal reactions in pilot	
14			for deaning and small- scale reactions	UL TRASONIC CLEANER (ICC 10) JANUARICA TREE (ICC 10) J
15	Vacuum Pump	Membrane based pump	For moderate vacuum applications	
16	Muffle Furnace2		With programmable and dual set mode	F. DOLLARS

S.No	Name of the equipment	Specifications	Briefdescription	Equipment
17	pH Meter	For 1-14 range of pH measurement	For measuring pH of liquid sample	
18	Mechanical Stirrer	with adjustable motor height and controller for RPM	Used for stirring liquid samples for Homogenization	