

## CHEMISRTY

S. No	Name of Equipment	Brand/Model/ Make	Type of Equipment	Specifications	Testing/ Characterization Parameter	Department & School
			Testing/Synthesis etc.			
1	Double beam UV-Vis. spectoscopy	Model-LT-2700	Characterization parameter	180 -1100nm	Characterization parameter	SBAS( Chemistry)
2	Serological water bath		Synthesis/Refluxing	110°C	Synthesis/Refluxing	SBAS( Chemistry)
3	Double Distillation		Purification of water	5000mL	Purification of water	SBAS(
4	Universal hot air oven	Spruce Enterprise Equipments	Synthesis	0-400°C	Synthesis	SBAS( Chemistry)
5	Magnetic stirrer with hot plate	Navyug	Synthesis	0-100°C	Synthesis	SBAS( Chemistry)
6	Magnetic stirrerwith hot plate	Omega	Synthesis	0-100°C	Synthesis	SBAS( Chemistry)
7	Weighing Balance	Wensar	Testing	0.001gm-200gm	Testing	SBAS(
8	Auto digital Potentiometer	Labtronics Model-LT-32	Testing	0-100°C&150 watt	Testing	SBAS( Chemistry)
9	Heating mental	Navyug	Synthesis	0-100°C	Synthesis	SBAS( Chemistry)
10	Digital Conductivity Meter	Model-AI-111	Testing	range 200 u-1000m	Testing	SBAS( Chemistry)
11	Digital pH Meter	Model:AI-102	Testing	0-14 pH	Testing	SBAS(
12	Refrigrator	Samsung RA 19CDUX1/XT L/2010	Storage of chemicals/Solutions	0-5°C	Storage of chemicals/Solutions	SBAS( Chemistry)
13	Digital TDS meter	Omega India	Testing	use to display the concentrations of substances	Testing	SBAS( Chemistry)
14	Digital Colourimeter	Spruce enterprise	Testing	measure the absorbance of wavelengths of light at a particular frequency	Testing	SBAS( Chemistry)
15	Digital pH meter	AI-102	Testing	0-14 pH	Testing	SBAS( Chemistry)
16	Digital conductivity meter	AI-111	Testing	range 200 u-1000m	Testing	SBAS( Chemistry)
17	Digital polarimeter	MARS EQ-801	Testing	measures the angle of rotation caused by passing polarized light through an optically active substance	Testing	SBAS( Chemistry)
18	Magnetic stirrer	Omega India	Synthesis	0-100°C	Synthesis	SBAS( Chemistry)

19	Auto digital potentiometer	Labotronics Model LT-32	Testing	used for trimming and scaling analog signals by microcontrollers	Testing	SBAS( Chemistry)
20	Refractometer	Spruce enterprise	Testing	measures refractive indices	Testing	SBAS( Chemistry)
21	Hot plate	Omega India	Synthesis	3 heat switch (low,off,high)	Synthesis	SBAS( Chemistry)
22	Digital flame photometer	Spruce enterprise	Testing	determine the concentration of certain metal ions	Testing	SBAS( Chemistry)
23	Digital TDS Meter		Testing	ppm200-1000ppt	Testing	SBAS( Chemistry)
24	Melting point appratus	Navyou	Testing	1-10°c	Testing	SBAS( Chemistry)
25	Double Distillation		Purification of water	10000 mL	Purification of water	SBAS( Chemistry)
26	Universal hot air oven	omega	Synthesis	0-400°c	Synthesis	SBAS( Chemistry)
27	Magnetic stirrer with hot plate	omega	Synthesis	0-100°c	Synthesis	SBAS( Chemistry)
28	Weighing Balance	Wensar	Testing	0.001gm-200gm	Testing	SBAS( Chemistry)
29	Auto digital Potentiometer	Labtronics Model-LT-32	Testing	0-100°c & 150 watt	Testing	SBAS( Chemistry)
30	Heating mental	Navyug	Synthesis	0-100°c	Synthesis	SBAS( Chemistry)
31	Digital Conductivity Meter		Testing	range 200 u-1000m	Testing	SBAS( Chemistry)
32	Digital pH Meter	Model:Al-102	Testing	0-14 pH	Testing	SBAS( Chemistry)
33	delux pH Meter	omega	Testing	0-14pH	Testing	SBAS( Chemistry)
34	Digital Conductivity Meter	Model:Al-111	Testing	range 200 u-1000m	Testing	SBAS( Chemistry)
35	Hot plate	omega	Synthesis	3 heat switch (low,off,high)	Synthesis	SBAS( Chemistry)

**List of Testing/ Synthesis/ Characterization/Machining equipment at MAU**

**Physics**

S. No	Name of Equipment	Brand/Model/ Make	Type of Equipment	Specifications	Testing/ Characterization Parameter	Department & School
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			Testing/Synthesis etc.			
1	Muffle Furnance	MARS Ed Pal Instruments Pvt. Ltd. 3575, Ambala City.	Synthesis	1200°C, Size 12" by 8" by 8", PID Controller.		Physics/SBAS
2	Ultrasonic bath Sonicator	Labman Scientific Instruments ADRA Instruments & Chemicals, Ambala city	synthesis	170-245 VAC 50Hz Single Phase 1000 watts power 33+/-3 KHz		Physics/SBAS
3	Hot Air Oven	MARS Ed Pal Instruments Pvt. Ltd. 3575, Ambala City.	Synthesis	Size 14" by 14" by 14", S.S Controller & Fan.		Physics/SBAS
4	Digital Weighing Machine	MARS Ed Pal Instruments Pvt. Ltd. 3575, Ambala City.	Testing	SF-400C Size 24.4 by 16.8 by 6.2 cm Min. Capacity-0.01g Max.capacity-500g		Physics/SBAS
5	Magnetic stirrer	MARS Ed Pal Instruments Pvt. Ltd. 3575, Ambala City.	Synthesis	Stirring Qty. 1 Lt. Size 200 by 225 by 185mm Power 300 watt		Physics/SBAS
6	Double Beam UV-Vis Spectrophotometer	MARS Ed Pal Instruments Pvt. Ltd. 3575, Ambala City.	Testing	Labtronics, Model No. LT-2700		chemistry/SBAS
7	REMI Centrifuge	Remi Electrotechnik Ltd. Satiwali, Maharashtra.	Testing	Model No. C-24PLUS MFG 03-2015 Sr. No. ZBCU-06225 MAX AMP 8 TEM- 8°C RPM 20000 Supply 220V, 50Hz		BioTech/SBAS
8	Agarose Gel Electrophoretic unit	Tasson	Testing			BioTech/SBAS
9	Vaccum Pump	Pall Life Science	Testing	Model-DOA-P730-BH		BioTech/SBAS
10	BH Loop Tracer System	Marine India, A3/25b DDA MIG flats green appartment, Paschim Vihar, New Delhi	Testing	BH main unit, RS2332 cable and card, heating stage with temperature controller	BH curve for the sample	Physics/SBAS
11	DC Resistivity system	HIOKI, 81koizumi, ueda, Nagano 386-1192 Japan	Testing	IM3536 LCR meter	Conductivity	Physics/SBAS

12	Dielectric Measurement System	HIOKI, 81koizumi, ueda, Nagano 386-1192 Japan	Testing	IM3536 LCR meter	dielectric constant	Physics/SBAS
13	Dc Polling unit	Marine India, A3/25b DDA MIG flats green apartment, Paschim Vihar, New Delhi	Testing	50Hz, 220 V AC source	strain measurement, d33 measurement, magnetoelectric measurement	Physics/SBAS
14	PE Loop Tracer System	Marine India, A3/25b DDA MIG flats green apartment, Paschim Vihar, New Delhi	Testing	MODEL 20 PE 1KHZ 0.01M	Frequency 20Hz-1KHz, Resolution 16 bit	Physics/SBAS
15	Ball Milling Machine	Jupiter Enginnering Works, F-21 West Patel Nagar, New Delhi 110008	Synthesis	SELEC XT543	mixing and grinding through rotation	Physics/SBAS
16	Hydraulic Press	Jupiter Enginnering Works, F-21 West Patel Nagar, New Delhi 110009	Synthesis	pressure upto 40kg/cm2	pellet synthesis	Physics/SBAS
17	High temperature muffle furnace	Jupiter Enginnering Works, F-21 West Patel Nagar, New Delhi 110010	Synthesis	temperature range upto 1600, automatic program ending, FY400 timer	calcination, sintering, annealing	Physics/SBAS

## Zoology

### List of Testing/ Synthesis/ Characterization/Machining equipment at MAU

S. No	Name of Equipment	Brand/Model/ Make	Type of Equipment	Specifications	Testing/ Characterization Parameter	Department & School
			Testing/Synthesis etc.			
1	Hot Air Oven	D. K. Industries	Incubation and sterlization			Zoology department, School of Basic and Applied Sciences

2	Compound Microscope	Labkron Instruments (ISO 9001:2008)	Viewing of sample			Zoology department, School of Basic and Applied Sciences
3	Dissecting Microscope	Labkron Instruments	Viewing of sample			Zoology department, School of Basic and Applied Sciences