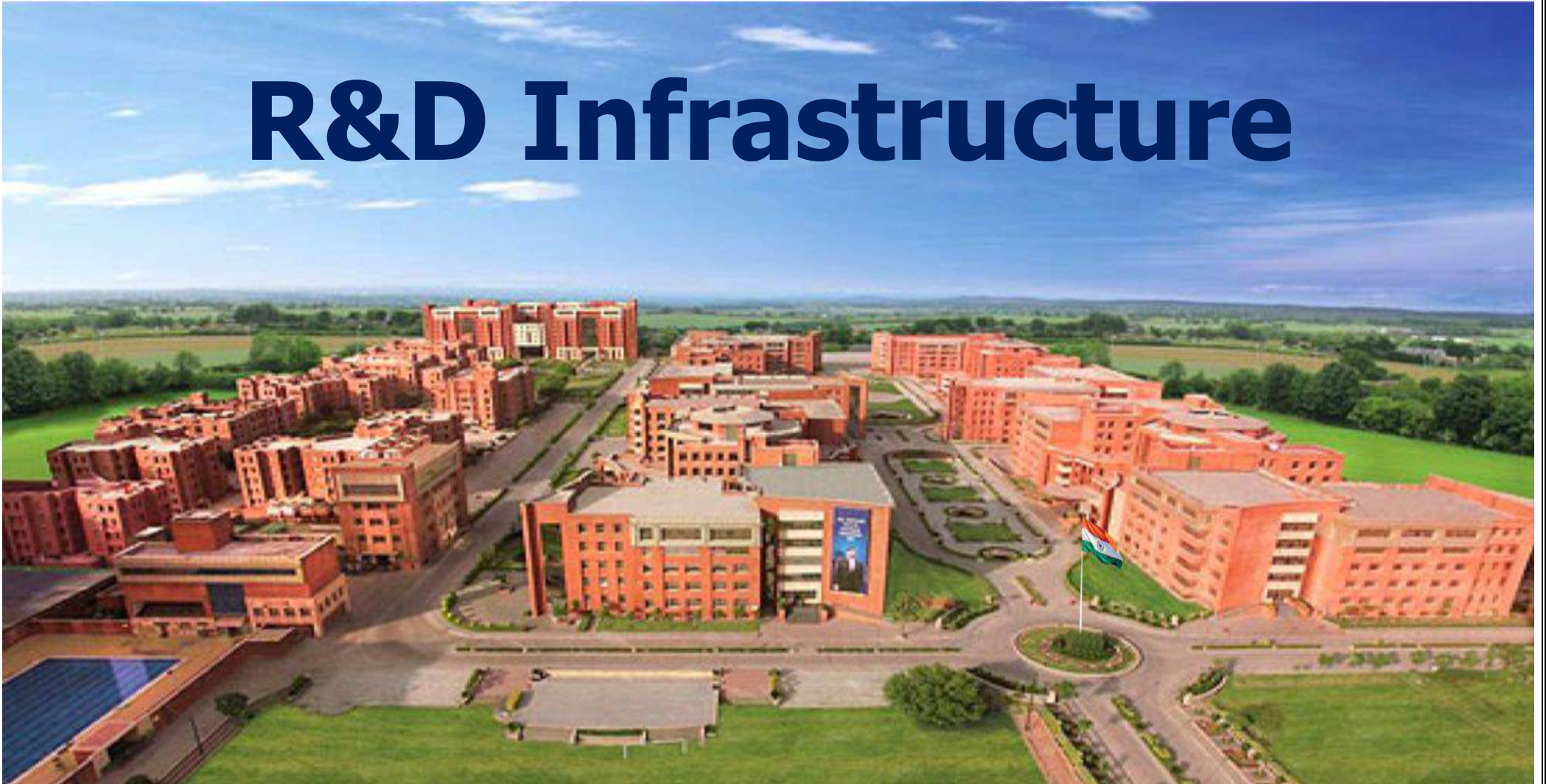







AMITY UNIVERSITY
— **UTTAR PRADESH** —




R&D Infrastructure



Amity Centre for Artificial Intelligence (ACAI)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
1	Amity Centre for Artificial Intelligence (ACAI)	E-3 GF	Artificial Intelligence Lab	AI system, the 16 NVIDIA A100 GPUs and 10 Petaflop computing power	-	AI centre is equipped with the world's most powerful AI system, the NVIDIA DGX2 A100. This high-performance AI server features 16 NVIDIA A100 GPUs and 10 Petaflop computing power, making it the ideal tool for researchers working on machine learning, deep learning, and data science. With its advanced hardware and software stack, the NVIDIA DGX2 A100 provides unparalleled performance, speed, and precision, allowing researchers to accelerate AI workloads and unlock new opportunities.	  

AMITY INSTITUTE OF MOLECULAR MEDICINE AND STEM CELL RESEARCH (AIMMSCR)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
1	AIMMSCR	J3- 117 First Floor	FACS Facility Lab	FACS AriaIII Flowcytometry	BD FACSAria III	<p>BD FACSAria™ III Cell Sorter BD FACSDiva software efficiently controls the setup, acquisition, and analysis of flow cytometry data from the BD FACSAria III workstation BD FACS AriaIII is multicolor high speed benchtop flow cytometry along with 3 laser(Blue488,Red633,and violet405).11+2 color can be done at a time.</p>	
2	AIMMSCR	J3- 117 First Floor	Central Instrumentations Facility-II	Real Time PCR System	Applied Biosystems (Step One Plus)	<p>Format: 96-well plate, 0.1 ml tubes, 8-tube strips Optics: 4 emission filters, Photodiode, Blue LED excitation source Weight: 24 kg (53 lbs.) Capacity: 96 x 0.1 ml tubes, 1 x 96-well plate, 12 x 8-tube strips Run Time: <40 min/run (Fast Mode), <2 hrs/run (Standard Mode) Dimensions: 24.6 cm/9.7 in.(W) x 42.7 cm/16.8 in.(D) x 51.2 cm/20.2 in.(H) Sensitivity: 1 copy Product Size: 1 instrument Dynamic Range: Linear Dynamic Range greater than 9 log units (detection) Calibrated Dye: VIC®, SYBR® Green I, TAMRA™, JOE™, FAM™, NED, ROX™ Green Features: Energy efficient, Fewer resources used Reaction Speed: Standard, Fast Detection Method: Primer-Probe Detection, SYBR Sample Ramp Rate: Standard mode: ± 1.6°C/sec, Fast mode: ± 2.2°C/sec Peak Block Ramp Rate: 4.6°C/sec Temperature Accuracy: 0.25°C (35 to 95°C) of display temperature Passive Reference Dye: ROX (Separate Tube), ROX (Pre-mixed), No ROX Reaction Volume Range: 10-30 µl (Standard curve experiments: 40 µl in standard mode is validated) Temperature Uniformity: 0.25°C (35 to 95°C) of setpoint/display temperature Thermal Cycling System: Peltier-Based System For Use With (Equipment): StepOnePlus™ Temperature Range (Metric): 4-100°C High Throughput Compatibility: Multiplexing</p>	
3	AIMMSCR	J3- 117 First Floor	Central Instrumentations Facility-II	Spectrophotometer	Thermo Scientific (Multiskan GO)	<p>Freely selectable wavelengths from 200 to 1000nm for the demands of various assays Both microplate and cuvette reading for any throughput requirements Fast plate measurements and a full sample spectrum in less than 10 seconds High quality data guaranteed by extensive self diagnostics Unique power save function for reduced energy consumption Visual internal software on a large color screen for quick measurements Easy and logical assay setup for demanding assays A selection of multiple operation languages Compatible with: The Multiskan GO is compatible with the Thermo Scientific™ µDrop plate. Recommended for: DNA and RNA quantitation and purity; Protein assays; Enzyme assays; Kinetic assays; Immunoassays; Cell proliferation and cytotoxicity - See more at: http://www.thermoscientific.com/content/tfs/en/product/multiskan-go-microplate-spectrophotometer.html#sthash.z08YKRVE.dpuf</p>	




AMITY INSTITUTE OF MOLECULAR MEDICINE AND STEM CELL RESEARCH (AIMMSCR)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
4	AIMMSCR	J3- 109 First Floor	Stem Cell & Cancer Research Lab	Centrifuge	Thermofisher(sorvall legened XFR)	<p>The technical data of the Sorvall Legend XFR is listed in the following table.</p> <p>Environmental conditions -Use in interior spaces</p> <p>-Altitudes of up to 2,000 m above sea level</p> <p>-max. relative humidity 80% up to 31 °C; decreasing linearly up to 50%relative humidity at 40 °C.</p> <p>permissible ambient temperature +2° to +35° +2° to +35°</p> <p>Overvoltage category II II</p> <p>Pollution degree 2 2</p> <p>Heat dissipation ventilated refrigerated</p> <p>230V 120V 230V 120V</p> <p>6653 BTU/h 4776 BTU/h 5800 BTU/h 4776 BTU/h</p> <p>IP 20 20</p> <p>running time unlimited unlimited</p> <p>max Speed nmax 15200 rpm (depending on the rotor) 15200 rpm (depending on the rotor)</p> <p>min Speed nmin 300 rpm 300 rpm</p> <p>maximum RCF value at nmax 25314 x g 25314 x g</p> <p>maximum kinetic energy < 62.5 kJ < 62.5 kJ</p> <p>noise level at maximum speed < 64 dB (A) < 64 dB (A)</p> <p>temperature setting range -10 ? to +40 ?</p>	
5	AIMMSCR	J3- 109 First Floor	Stem Cell & Cancer Research Lab	Centrifuge	Remi (C854/8)	<p>Technical Specifications</p> <p>Models: C-854/8</p> <p>Capacity ml: 8 x 15</p> <p>Type of Head: Swing Out</p> <p>No. of Tubes: 8</p> <p>Max. Speed RPM: 3500</p> <p>Max. RCF'g'175018501600160014504760</p> <p>W x D x Mmm295 x 295 x 25310 x 310 x 295210 x 210 x 250</p> <p>Supply: 220-240 Volts 50 Hz SINGLE PHASE</p>	
6	AIMMSCR	J3- 109 First Floor	Stem Cell & Cancer Research Lab	Fume Hood	Lab Guard	Fume Hood facility	

AMITY INSTITUTE OF MOLECULAR MEDICINE AND STEM CELL RESEARCH (AIMMSCR)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
7	AIMMSCR	J3- 109 First Floor	Stem Cell & Cancer Research Lab	Deep Freezer -20	Celfrost(BSF3455)	Deep Freezer -20	
8	AIMMSCR	J3- 109 First Floor	Stem Cell & Cancer Research Lab	PH Meter	Thermo Fisher(STAR A111)	Thermo Scientific™ Orion™ Star A111 pH Benchtop Meters make it easy and affordable to take simple, accurate pH measurements.	
9	AIMMSCR	J3- 109 First Floor	Stem Cell & Cancer Research Lab	Microtome	Jain Scientific (JAISBO A820)	It is specialized precision cutting instrument used to create thin slices of tissue, called sections, for microscopic examination	


AMITY INSTITUTE OF MOLECULAR MEDICINE AND STEM CELL RESEARCH (AIMMSCR)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
10	AIMMSCR	J3- 109 First Floor	Stem Cell & Cancer Research Lab	Microscope	Motic (RED-220)	<p>Motic RED-220 Specification Details</p> <p>Optical systemFinite Optical System, 160mm</p> <p>Observation tubeBinocular head, siedentopf type</p> <p>Inclination30° inclined, 360° rotating</p> <p>Interpupillary distance55-75mm</p> <p>Eyeiece(s)Widefield WF10X/20mm</p> <p>NosepieceReversed quadruple revolving nosepiece with click stops</p> <p>Objective classificationASC Achromatic Super Contrast, DIN</p> <p>Objective information4X/0.10 (WD 17mm)</p> <p>10X/0.25 (WD 6.4mm)</p> <p>40X/0.65/S (WD 045mm)</p> <p>100/1.25/S (WD 0.14mm)</p> <p>Objective mounting threadW 4/5" x 1/36" (RMS standard)</p> <p>StageBuilt-in low position coaxial mechanical stage with sample holder</p> <p>Stage size140 x 135mm</p> <p>Mechanical stage X & Y range77 x 50mm</p> <p>Upper limit stopPreset and adjustable</p> <p>CondenserSpiral mounted 1.25 N.A. Abbe Condenser with iris diaphragm</p> <p>Focus mechanismCoaxial coarse and fine focusing system</p> <p>Fine focus precision2µm minimum increment</p>	
11	AIMMSCR	J3- 109 First Floor	Stem Cell & Cancer Research Lab	MICRO WAVE OVEN	Samsung(MC32K7055CK/LT)	MICRO WAVE OVEN	
12	AIMMSCR	J3- 117 First Floor	Central Instrumentations Facility-II	Micropulsar Electroporator	Bio-RAD Laboratories	<p>Key Features: One-button pulse delivery, attached cuvette chamber, and rapid charge time for fast sample handling</p> <p>Preset, optimized programs for commonly studied bacteria and fungi allow rapid program selection</p> <p>Arc quenching (ARQ) system significantly reduces arcing, protecting against loss of valuable samples</p> <p>Broad range of parameters for manual optimization. Manual programming allows voltage to be selected in a 200–3,000 V range with 10 V precision and allows pulse width to be selected in a 1.0–4.0 ms range with 0.1 ms precision; High-voltage 3,000 V capability yields improved efficiency in larger-volume cuvettes; Compact, space-saving design, Audible and visible pulse indicators</p> <p>Time constant and actual volts displayed to monitor reproducibility.</p> <p>Outputs: Waveform: decaying or truncated decaying exponential-decay with resistor capacitor time constant</p> <p>Voltage and current: 3,000 V peak into >600 W load; limited at 100 A peak maximum</p> <p>Output voltage and pulse duration adjustment</p> <p>Voltage adjustable in 200–3,000 V range with 10 V precision; 5 ms default or 1–4 ms with 0.1 ms precision.</p> <p>Input voltage: 100–120 V or 220–240 V</p> <p>Preset protocols: 5 bacterial, 5 fungal</p> <p>Operating environment: 3.5–35°C</p>	




AMITY INSTITUTE OF MOLECULAR MEDICINE AND STEM CELL RESEARCH (AIMMSCR)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
13	AIMMSCR	J3- 109 First Floor	Stem Cell & Cancer Research Lab	Gel rocker	GeNei Laboratories (LI-GR-E-100)	Gel rocker	
14	AIMMSCR	J3- 109 First Floor	Stem Cell & Cancer Research Lab	Shaker Incubator	New Brunswick (Innova 42)	<p>External depth (with lid/door open) 131 cm (51.6 in) Timer 0.01 – 99.59 h Power supply 230 V, 50 Hz Temperature range Ambient +5 °C to 80 °C Audible and visual alarms Temperature uniformity ±0.25 °C at 37 degree Celsius Available program modes › Constant speed and temperature › Programmable multi-steps › RS-232 communication port › Constant speed and temperature Gassing manifold Humidity monitor In chamber power receptacle Memory Non volatile with automatic power failure restart Motor type Solid state, DC brushless motor Solid state, Orbit 1.9 cm (3/4 in) Photosynthetic lighting Platform size 46 × 46 cm (18 × 18 in) Refrigerated; Speed range 1 25 – 400 rpm Multi-step programming; Steps per program 15 Stored programs 4</p>	
15	AIMMSCR	J3- 117 First Floor	Central Instrumentations Facility-II	Gel Doc with Chemiluminescence	ProteinSimple (FluorChem E Imaging System)	<p>FluorChem systems give you start to finish solutions for Western blot analysis Resolution 8.3 MP Dynamic range 65,536 grayscale Detector -25 °C cooled CCD Standard optics 50 mm f/1.4 motorized lens, 50 mm 365/302 nm UV Epi & Trans White Filter positions 6 – motorized Emission wavelengths- 590 nm Storage 320 GB</p>	

AMITY INSTITUTE OF MOLECULAR MEDICINE AND STEM CELL RESEARCH (AIMMSCR)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
16	AIMMSCR	J3- 109 First Floor	Stem Cell & Cancer Research Lab	Speed VAC Centrifuge	Eppendorf (Concentrator plus)	<p>The Concentrator plus with its new design was designed with the customer in mind to deliver an ergonomic, intuitive and durable solution that fits comfortably right on the lab bench. An advanced heating technology provides best treatment for your sample which assures quick, efficient and gentle vacuum concentration of DNA/RNA, nucleotides, proteins and other liquid or wet samples. Our new coated lid provides superior chemical resistance against aggressive acids and organic solvents (e.g. TFA, DMSO). Vacuum 20 hPa (20 mbar) Fixed speed 1,400 revolutions per minute Tube volume 0.2-50 millilitre Sample capacity Max. 144 vessels/2 microplates Power supply 230 V, 50 – 60 Hz Max. power consumption 350 watt</p>	
17	AIMMSCR	J3- 109 First Floor	Stem Cell & Cancer Research Lab	PCR (Pro Flex PCR System)	Applied Biosystems (Pro Flex)	<p>Format: 0.2 ml tubes, 12-strip wells Weight: 18.75 kg (41 lb) Capacity: 3 x 32-well x 0.2 ml tubes Dimensions: 33 cm (13 in) (W) x 27 cm (11 in) (H) x 57 cm (22 in) (D) Block Format: Interchangeable Product Size: 1 instrument Reaction Speed: Standard, Fast Program Features: Program overwrite protection, Auto re-start (after power outages) Sample Ramp Rate: ± 4.4 °C/sec Display Interface: Touchscreen (8.4 in. TFT LCD) Instrument Memory: USB and On-board Power Requirements: 100-240V, 50-60 Hz Max: 950 VA Peak Block Ramp Rate: 6.0°C/sec Temperature Accuracy: ±0.25°C (35°C to 99.9°C) Reaction Volume Range: 10-80 µl Temperature Uniformity: <0.5 °C (20 sec after reaching 95 °C) For Use With (Equipment): ProFlex™ PCR System Temperature Range (Metric): 0 to 100.0 °C High Throughput Compatibility: High Throughput-Compatible</p>	
18	AIMMSCR	J3- 101 First Floor	Translational Cancer Research Lab	PCR	BIO-RAD (T100 Thermal Cycler)	<p>100 thermal cycler offers an intuitive touch screen and reliable performance in a compact footprint for performing PCR Key Features: Save time programming with the intuitive touch screen Get superior results faster by optimizing your PCR assays in a single run using a thermal gradient Save valuable benchspace with the compact design Keep your protocols organized using personalized folders or a USB flash drive Get reliable performance for years with a robust design that protects the thermoelectric components of the cycler</p>	

AMITY INSTITUTE OF MOLECULAR MEDICINE AND STEM CELL RESEARCH (AIMMSCR)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
19	AIMMSCR	J3- 109 First Floor	Stem Cell & Cancer Research Lab	Gel Documentation System	Bio-Rad (XR+)	<p>The Molecular Imager Gel Doc XR system is a fast, easy-to-use, high-resolution gel imaging system. The system includes the easy-to-use, "capture and print" Quantity One® 1-D analysis software.</p> <ul style="list-style-type: none"> - Increase cloning efficiency and protein production by protecting DNA electrophoresis samples from UV exposure using the XcitaBlue™ Conversion Screen and blue light excitable stains such as GelGreen, SYBR®Safe, and SYBR® Green I - View protein gels stained with Coomassie Blue, silver stain, and other colorimetric gel stains using the White Light Conversion Screen - Maintain prior lab protocols as there is no loss in sensitivity compared to UV and ethidium bromide staining 	
20	AIMMSCR	J3- 109 First Floor	Stem Cell & Cancer Research Lab	Refrigerated Centrifuge	SIGMA (2-16KL)	<p>Sigma 2-16KL benchtop centrifuge is so attractive</p> <p>With a wide range of fixed-angle and swing-out rotors, this all-purpose centrifuge can hold PCR tubes, test tubes, round-bottom tubes, culture tubes and microtiter plates. This extensive range is rounded out by a haematocrit rotor. The Sigma 2-16KL provides extraordinary capacity with 4 x 100 ml in a swing-out rotor or 6 x 50 ml in a fixed-angle rotor.</p> <p>The Sigma 2-16KL has a high-performance, precisely adjustable refrigeration system with a temperature range of -10°C to +40°C. The Rapid Temp quick cooling function allows the centrifuge chamber and accessories to be pre-cooled to a defined temperature. This ensures optimal protection of specimens against heating.</p> <p>Up to 50 different routine protocols can be stored in program memory and easily retrieved. Ten selectable acceleration and braking curves support the optimisation of separation processes.</p>	
21	AIMMSCR	J3- 109 First Floor	Stem Cell & Cancer Research Lab	Centrifuge	Eppendorf (5424 R)	<p>Refrigerated microcentrifuge with rotary knob includes an aerosol-tight 24 x 1.5/2mL rotor and lid; electrical requirements: 120V/60Hz</p> <p>Keypad control panel provides quick parameter changes; high centrifugation speed of up to 21130 x g (15000rpm)</p> <p>FastTemp program cools down to 4°C in only 8 minutes and maintains constant 4°C at maximum speed</p> <p>Compressor control minimizes vibration and improves temperature accuracy; ECO shut-off function extend compressor life and reduce energy consumption</p>	



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S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
22	AIMMSCR	J3- 109 First Floor	Stem Cell & Cancer Research Lab	Deep Freezer -20° C	Celfrost	<p>Upright Solid Door Freezer</p> <p>Upright right freezers tropicalised for Indian ambient conditions</p> <p>Energy efficient</p> <p>PUF insulation ensures long holding time</p> <p>Temperature range : -17 to -24 degree C</p>	
23	AIMMSCR	J3- 109 First Floor	Stem Cell & Cancer Research Lab	Refrigerator 4° C	Celfrost	<p>Flexible panel sizes ensuring efficient space utilization up to the last 6 inches of space</p> <p>Optimal temperature management, with a choice of low-energy consuming, unitary or remote refrigeration system</p> <p>Refrigerator (+1 / +4°C) and Freezer (-18 / -25°C)</p> <p>Panel joints sealed with PVC gaskets, making routine cleaning easy and eliminating moisture penetration</p>	
24	AIMMSCR	J3- 109 First Floor	Stem Cell & Cancer Research Lab	Deep Freezer -80° C	Thermo Fisher Scientific (FORMA 88000 Series)	-80°C Upright Ultra-Low Temperature Freezers, designed for daily sample protection and dependability.	




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S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
25	AIMMSCR	J3- 109 First Floor	Stem Cell & Cancer Research Lab	Gel Dryer (Digital)	GeNei	Used for gel electrophoresis	
26	AIMMSCR	J3- 105 First Floor	Stem Cell & Tissue Culture Facility	Biological Safety Cabinet	Airstream (ESCO Class II BSC)	The Esco Airstream® Class II Biological Safety Cabinet is an effective solution in providing operator, product and environmental protection within laboratories and industrial facilities. With the presence of its DC ECM blower, this is the most energy-efficient Class II Biosafety Cabinet in the world with 70% energy savings compared to AC motor. It also features stable and self-compensating airflow, despite building voltage fluctuations & filter loading. Its large performance envelope is an open declaration of possible safe operating airflow values. Certified to EN 12469, Esco Airstream® Class II Biological Safety Cabinet also has antimicrobial coating on all its external and internal painted surfaces for improved safety.	
27	AIMMSCR	J3- 105 First Floor	Stem Cell & Tissue Culture Facility	CO2 Incubator	New Brunswick (Galaxy 170 S)	Full sized 170 Liter (6.0 ft3) provides high capacity incubation within a minimal footprint Temperature range from 4°C above ambient to 50°C Sealed, inner glass door allows observation of samples without disturbing cultures. Six-sided direct heating system provides a uniform incubated environment to gently bathes cells Fanless design achieved with advanced heating system eliminates a classic, and often repeated source of contamination Deep-drawn, stainless steel chamber eliminates seams or welds, removing potential sources of contamination	




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S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
28	AIMMSCR	J3- 105 First Floor	Stem Cell & Tissue Culture Facility	Inverted Microscope	Nikon (Eclipse Ti-U Inverted Microscope)	<p>Main body Port - Ti-U: 3 ports Eyepiece 100%, left 100%, right 100%, AUX**, Ti-U/B: 4 ports Eyepiece 100%, left 100%, right 100**, bottom 100%. Manual optical path switching Two ports (tube base unit with side port, back port) can be added optionally Focusing, Via nosepiece up/down movement, Stroke (manual): up 8mm, down 3mm, Coarse stroke: 5.0mm/rotation, Fine stroke: 0.1mm/rotation, Minimum fine reading: 1µm, Coarse refocusing mechanism, Intermediate magnification 1.5x Other — Eyepiece tube Eyepiece tube body TI-TD Binocular Tube D, TI-TS Binocular Tube S, TI-TERG Ergonomic Tube Eyepiece tube base TI-T-B Eyepiece Tube Base Unit, TI-T-BPH Eyepiece Tube Base Unit for PH, TI-T-BS Eyepiece Tube Base Unit with Side Port, Eyepiece lens CFI 10x, 12.5x, 15x, Illumination pillar TI-DS Diascopic Illumination Pillar 30W, TI-DH Diascopic Illumination Pillar 100W, Condenser ELWD condenser, LWD condenser, NAMC condenser, ELWD-S condenser, High NA condenser, Darkfield condenser, CLWD condenser, Nosepiece —TI-ND6-E Motorized Sextuple DIC Nosepiece, TI-N6 Sextuple Nosepiece, TI-ND6 Sextuple DIC Nosepiece, Objectives CFI60 objectives Stage TI-S-ER Motorized Stage with Encoders, TI-S-E Motorized Stage—Cross travel: X110 × Y75 mm, Size: W400 × D300 mm (except extrusions), TI-SR Rectangular Mechanical Stage, TI-SR/F Rectangular Stage with front positioned knob, TI-SSR Short-handle Rectangular Stage—Cross travel: X70 x Y50mm, Size: W310 x D300mm, TI-SP Plain Stage—Size: W260 x D300 mm, TI-SAM Attachable Mechanical Stage—Cross travel: X126 × Y84 mm when used with TI-SP Plain Stage, Motorized functions —Epi-fluorescence attachment, Sextuple fluorescence filter cube rotating turret, Filter cubes with noise terminator mechanism, Field diaphragm centerable, 33mm ND4/ND8 filters, 25mm heat absorbing filter Option: Motorized sextuple fluorescence filter cube rotating turret, Motorized excitation filter wheel, Motorized barrier</p>	
29	AIMMSCR	J3- 105 First Floor	Stem Cell & Tissue Culture Facility	Cell Culture Inverted Microscope	Olympus (CKX53)	<p>Compact, Ergonomic Inverted Microscope for Cell Culture With improved image quality and ergonomics, the Olympus CKX53 inverted microscope delivers stable performance and a comfortable workflow for a variety of cell culture needs, including live cell observation, cell sampling and handling, image capture, and fluorescence observation.</p>	
30	AIMMSCR	J3- 105 First Floor	Stem Cell & Tissue Culture Facility	Water Distillation Unit	BOROSIL	Water Distillation for Laboratories	




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S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
31	AIMMSCR	J3- 104 First Floor	Medical Biology Lab	Flow Cytometer	BD Accuri C6	<p>Optics Laser Excitation 488 nm, 640 nm Laser Profile 10 x 75 µm Light Scatter Detection - Forward (0°, ±13°) Side (90°, ±13°) Emission Detection - 4 colors, user-changeable optical filters Standard set installed: • FL1 533/30 nm (eg, FITC/GFP) • FL2 585/40 nm (eg, PE/PI) • FL3 >670 nm (eg, PerCP, PerCP-Cy5.5, PE-Cy™7) • FL4 675/25 nm (eg, APC) Optical Alignment Fixed alignment</p> <p>Fluidics Flow Cell - 200-µm ID quartz capillary Minimum Detectable Particle Size - 0.5 µm, Minimum Sample Volume - 50 µL Pre-Set Flow Rates and Core Sizes - Slow: 14 µL/min, 10-µm core, Medium: 35 µL/min, 16-µm core, Fast: 66 µL/min, 22-µm core Custom Sample Flow Rates - 10–100 µL/min Custom Core Diameter - 5–40 µm Recommended Sheath Fluid - 0.2-µm filtered DI water with BD™ Sheath Additive Maximum Events Per Sample - 1 million events</p>	
32	AIMMSCR	J3- 104 First Floor	Medical Biology Lab	REFRIGERATED HIGH SPEED CENTRIFUGE	Thermo Scientific (Sorvall ST8R)	<p>Secure, push-button Thermo Scientific™ Auto-Lock™ rotor exchange in as little as three seconds delivers trouble-free rotor installation and removal and clear chamber access for cleaning convenience. Biocontainment sealing options, including certified† Thermo Scientific™ ClickSeal™ lids offer glove-friendly, one-handed operation. Maximized swing-out capacity up to 8 x 50mL conical tubes, 24 x 5/7mL blood tubes, microplates and microtubes, all in one versatile centrifuge Fixed angle flexibility to spin 50mL conical tubes at over 12,000 x g or a wide range of microtubes at speeds up to 30,279 x g User-friendly performance: Low noise levels, including just 52 dBA at performance of 17,850rpm/30,279 x g (with Sorvall ST 8R centrifuge), to ensure a peaceful laboratory One-touch operation with pre-saved protocols Highly visible backlit display offers easy reading of parameters across the lab Glove- and detergent-friendly user interface Multilingual instructions offered in English, Dutch, French, German, Italian, Russian and Spanish on programming, run conditions, alerts and service messages Centrifuge conforms to the latest clinical and safety standards such as UL, CE and IVD Clinical Applications: Runs up to 24 x 5/7mL blood tubes at a time in swinging bucket configuration Conforms to the latest clinical and safety standards</p>	
33	AIMMSCR	J3- 104 First Floor	Medical Biology Lab	Sonicator (Ultrasonic Liquid Processor)	SONICS (Vibra Cell)	<p>Ultrasonic Processor with Timer and Pulser to safely process a wide range of organic and inorganic materials, from 150 microliters to 150 milliliters. Typical applications include biotechnology and pharmaceutical processing, including mixing, dispersion, and sample prep uses.</p> <p>Energy monitor Digital wattmeter Ten hour timer 1-59 second independent ON/OFF pulser Elapsed time indicator Variable power output control</p>	




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S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
34	AIMMSCR	J3- 104 First Floor	Medical Biology Lab	Autoclave	WINDSONS SCIENTIFIC WORKS	Vertical Autoclave Durable Easy to use	
35	AIMMSCR	J3- 104 First Floor	Medical Biology Lab	Hot Air Oven	NISCO	Hot air oven for sterilization	
36	AIMMSCR	J3- 104 First Floor	Medical Biology Lab	Deep Freezer -20° C	VEST FROST (BFS345S)	Deep Freezer -20° C	

AMITY INSTITUTE OF MOLECULAR MEDICINE AND STEM CELL RESEARCH (AIMMSCR)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
37	AIMMSCR	J3- 111 First Floor	Genome Editing Tissue Engineering Lab	Ultrasonic Processor/Cup horn sonicator	Cole Parmer	Ultrasonic processor is versatile and can safely process a variety of organic and inorganic materials in a range of volumes. Typical applications include sample preparation, cell lysing, disaggregation, homogenization, particle size reduction, soil testing, acceleration of chemical reactions, defoaming, and atomization etc.	
38	AIMMSCR	J3- 111 First Floor	Genome Editing Tissue Engineering Lab	Bioprinter	CELLINK	Best-in-class bioprinter for R&D labs make critical breakthroughs—from 3D cell culturing to tissue engineering to drug development	
39	AIMMSCR	J3- 111 First Floor	Genome Editing Tissue Engineering Lab	Charge-Coupled Device (CCD) Imager	GE Healthcare (ImageQuant LAS 500)	ImageQuant™ LAS 500 is a cooled CCD imager for imaging of chemiluminescent Western blots, fluorescent protein and DNA gel stains and white light imaging of colorimetric stains and markers. ImageQuant LAS 500 system consists of a touchscreen, sample chamber, USB port, camera, and light sources. The 16-bit, 8.3 megapixel CCD camera is fitted with a 30mm (F1.4) fixed focus lens. The CCD camera is ready for use in minutes and advanced Peltier cooling and binning significantly reduces noise levels both the sensitivity and linearity of the system.	




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S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
40	AIMMSCR	J3- 110 First Floor	Host-Pathogen Interaction Lab	Orbital Shaking Incubator	REMI (CIS-24 Plus)	<p>Orbital Shaking Incubator is designed for precise temperature control and simultaneous shaking applications required in fermentations studies, enzyme reaction s, life sciences, tissue culture and biotechnology, research labs. These chambers are available in standard & GMP versions.</p> <p>SALIENT FEATURES Brushless induction Motor with variable frequency drive suitable for continuous operations Step less variable frequency drive ensures gentle shaking start and maintains set speed Counter balanced mechanism for high stability in uneven load of different sized flasks Universal Shaking Platform to accommodate different sized assorted flasks Maximum shaking capacity – 9 Flasks x 2000 ml Powerful fan motor for forced air circulation to maintain uniform conditions inside chamber Machine filled CFC free PUF insulation to eliminate void pockets Unique design of thermal barrier for better energy efficiency Heating by long SS tubular heaters Additional tray to store samples Chamber calibration port on side Hermetically sealed Compressor with CFC free refrigerant (CIS-24 Plus) Microprocessor controller with 4” LCD display for display of shaking speed & temperature 9 programs memory High temperature safety cut off & alarms for high / low set temperature</p>	
41	AIMMSCR	J3- 110 First Floor	Host-Pathogen Interaction Lab	Autoclave		<p>Vertical Autoclave Durable Easy to use</p>	
42	AIMMSCR	J3- 110 First Floor	Host-Pathogen Interaction Lab	Class II Biosafety cabinet	BIOBASE	To work efficiently with BSL2 pathogens. Fitted with HEPA filters	




AMITY INSTITUTE OF MOLECULAR MEDICINE AND STEM CELL RESEARCH (AIMMSCR)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
43	AIMMSCR	J3- 101 First Floor	Translational Cancer Research Lab	REFRIGERATED HIGH SPEED CENTRIFUGE	Thermo Scientific (Sorvall ST8R)	<p>Secure, push-button Thermo Scientific™ Auto-Lock™ rotor exchange in as little as three seconds delivers trouble-free rotor installation and removal and clear chamber access for cleaning convenience.</p> <p>Biocontainment sealing options, including certified† Thermo Scientific™ ClickSeal™ lids offer glove-friendly, one-handed operation.</p> <p>Maximized swing-out capacity up to 8 x 50mL conical tubes, 24 x 5/7mL blood tubes, microplates and microtubes, all in one versatile centrifuge</p> <p>Fixed angle flexibility to spin 50mL conical tubes at over 12,000 x g or a wide range of microtubes at speeds up to 30,279 x g</p> <p>User-friendly performance:</p> <p>Low noise levels, including just 52 dBA at performance of 17,850rpm/30,279 x g (with Sorvall ST 8R centrifuge), to ensure a peaceful laboratory</p> <p>One-touch operation with pre-saved protocols</p> <p>Highly visible backlit display offers easy reading of parameters across the lab</p> <p>Glove- and detergent-friendly user interface</p> <p>Multilingual instructions offered in English, Dutch, French, German, Italian, Russian and Spanish on programming, run conditions, alerts and service messages</p> <p>Centrifuge conforms to the latest clinical and safety standards such as UL, CE and IVD</p> <p>Clinical Applications:</p> <p>Runs up to 24 x 5/7mL blood tubes at a time in swinging bucket configuration</p> <p>Conforms to the latest clinical and safety standards</p> <p>Research applications:</p> <p>8 x 50mL swinging bucket rotor capacity, four microplates or 30 filtration columns for research needs</p>	
44	AIMMSCR	J3- 101 First Floor	Translational Cancer Research Lab	Lyophilizer (Freeze Dry System)	Labconco (Freezone 2.5)	<p>Collector Temperature: -50°C, -58°F</p> <p>Ice Holding Capacity: 2.5 L</p> <p>Options Included: PTFE-Coated Collector</p> <p>Plug Type: North America, 230 volt</p> <p>Style: Benchtop</p>	
45	AIMMSCR	J3- 101 First Floor	Translational Cancer Research Lab	Deep Freezer -80° C	Thermo Fisher Scientific (FORMA 88000 Series)	-80°C Upright Ultra-Low Temperature Freezers, designed for daily sample protection and dependability.	


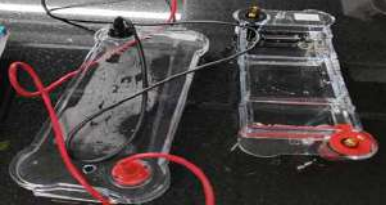

AMITY INSTITUTE OF MOLECULAR MEDICINE AND STEM CELL RESEARCH (AIMMSCR)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
46	AIMMSCR	J3- 101 First Floor	Translational Cancer Research Lab	HORIZONTAL DEEP FREEZER -20° C	BLUE STAR (CHF150)	Gross Capacity :145 Liters Temperature Range: -24°C to +8°C	
47	AIMMSCR	J3- 101 First Floor	Translational Cancer Research Lab	LIQUID NITROGEN CONTAINER	CHART INC (CRYOSYSTEM2000)	CryoSystem 2000 Cryogenic Sample Storage	
48	AIMMSCR	J3- 101 First Floor	Translational Cancer Research Lab	Deep Freezer -20° C	VEST FROST (BFS345S)	Deep Freezer -20° C	

AMITY INSTITUTE OF MOLECULAR MEDICINE AND STEM CELL RESEARCH (AIMMSCR)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
49	AIMMSCR	J3- 101 First Floor	Translational Cancer Research Lab	QIIBIT4 FLOUROMETER	THERMO FISHER (QIIBIT4)	Fast and sensitive quantification of DNA, RNA, and Protein The Invitrogen Qubit 4 Fluorometer is the next generation of the popular benchtop fluorometer designed to accurately measure DNA, RNA, and protein quantity. The new Qubit 4 also easily measures RNA integrity and quality. The easy-to-use touch screen menus make it easy to select and run the assays you need, with results displayed in just a few seconds.	
50	AIMMSCR	J3- 101 First Floor	Translational Cancer Research Lab	REFRIGERATOR -20° C	SAMSUNG (RR19M2712R/NL)	REFRIGERATOR -20° C	
51	AIMMSCR	J3- 101 First Floor	Translational Cancer Research Lab	REFRIGERATOR 4°C and -20° C	Whirpool (FF2D3054S)	REFRIGERATOR 4°C and -20° C	

AMITY INSTITUTE OF MOLECULAR MEDICINE AND STEM CELL RESEARCH (AIMMSCR)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
52	AIMMSCR	J3- 101 First Floor	Translational Cancer Research Lab	VERTICAL AUTOCLAVE	CATTON (NSW-227)	Vertical Autoclave Durable Easy to use	
53	AIMMSCR	J3- 111 First Floor	Genome Editing Tissue Engineering Lab	Electrophoresis Unit	TARSONS	Use for electrophoresis	
54	AIMMSCR	J3- 111 First Floor	Translational Cancer Research Lab	Nanodrop	Implen	Nanodrop for measuring RNA, DNA and protein concentrations.	

AMITY INSTITUTE OF MOLECULAR MEDICINE AND STEM CELL RESEARCH (AIMMSCR)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
55	AIMMSCR	J3- 111 First Floor	Translational Cancer Research Lab	PCR (Thermal Cycler)	Agilent Technologies (SureCycler 8800 Thermal Cycler)	<p>The SureCycler 8800 is a thermal cycler designed to perform polymerase chain reaction (PCR) and related methods for amplification of DNA templates. The cycler can run even the most complex thermal cycling techniques, including time and temperature increments, touchdown PCR and temperature gradients. The software interface, operated through the color touchscreen, features an intelligent Program Wizard that can create PCR protocols automatically from primer and template information.</p> <p>SureCycler 8800 Thermal Cycler, + 12 temperature gradient functionality without sacrificing accuracy or uniformity + One instrument that offers both fast cycling (6°C/sec ramp) and large volumes capacity (10-100 µl)</p>	
56	AIMMSCR	J3-115 first floor	Genome editing tissue engineering lab	Deep freezer -20°C	Vestfost -20(BFS345)	Deep freezer -20°C	
57	AIMMSCR	J3-313 Third floor	Research Lab	Refrigerator 4°C	Whirlpool	Refrigerator 4°C, 245ltrs	




AMITY INSTITUTE OF MOLECULAR MEDICINE AND STEM CELL RESEARCH (AIMMSCR)




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
58	AIMMSCR	J3- 110 First Floor	Host pathogen interaction Lab	Centrifuge	REMI	High Speed centrifuge for cell harvesting and protein purification.	
59	AIMMSCR	J3- 115 First Floor	Central Instrumentations Facility-II	Fluorescence Microscope	Company: Leica DMIL LED	Company: Leica DMIL LED, Fixed stage on 3 point support, 4-fold revolving nosepiece with 25x075 objective thread Infinity optics with tube lens 1X IMC-interface	
60	AIMMSCR	J3- 110 First Floor	Host pathogen interaction Lab	Freezer -20	VestFrost	For storing proteins , cell, DNA	
61	AIMMSCR	J3 101	Translational Cancer Research Lab	Eppendorf Centrifuge	DLAB	For high speed centrifugation for small volumes	


AMITY INSTITUTE OF MOLECULAR MEDICINE AND STEM CELL RESEARCH (AIMMSCR)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
62	AIMMSCR	J3 101	Translational Cancer Research Lab	Refrigerator and freezer	Bosch	Both 4°C and -20°C fridge and freezer for storing cels and reagents	
63	AIMMSCR	J3 101	Translational Cancer Research Lab	Dry Bath	Thermo	For heating of samples and shaking of samples simultaneously. Temperature range from 25 - 100 °C	
64	AIMMSCR	J3 101	Translational Cancer Research Lab	Microcentrifuge	Thermofisher	Micro 17R Microcentrifuge , Thermofisher, Include 24 x 1.5/2.0mL roto	
65	AIMMSCR	J3 101	Translational Cancer Research Lab	Gradient PCR	Thermofisher	96-Well Thermal cycle, PCR machin	

Amity Institute of Advanced Research & Studies (Materials & Devices) - AIARS(M&D)

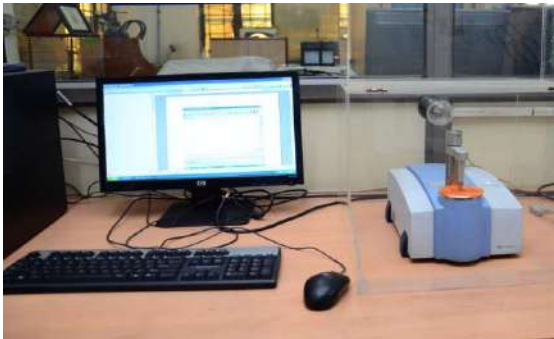

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
1	Amity Institute of Advanced Research & Studies (Materials & Devices)	Block-E3, 4th Floor, Room No.- 417	Advance Characterization Lab	Scanning Electron Microscopy (SEM)	Zeiss (MA EVO -18 Special Edition)	<p>EVO 18 is perfectly suited to a variety of research applications including Semiconductor and Electronics, Geoscience and Materials.</p> <p>Benefit from class leading analytical X-ray geometry & EDS/WDS ports as standard</p> <p>Experience enhanced topographical information using the five segment BSE detector</p> <p>Use variable pressure operation to analyze dry or hydrated samples</p> <p>Handle large specimens in the spacious chamber with flexible stage travel</p>	
2	Amity Institute of Advanced Research & Studies (Materials & Devices)	Block-E3, 4th Floor, Room No.- 417	Advance Characterization Lab	Particle Size & Zeta Potential Analyser	Nano Plus /Particulate Systmes	<p>Principle:Combination of both measurements</p> <p>Light Source:Semiconductor Laser</p> <p>Detector:Avalanche Photodiode</p> <p>Minimum Cell/Sample Volume:All four sizes available to use with this system</p> <p>Concentration:Size and Zeta the same as single units</p> <p>Measurement Range:Size and Zeta the same as single units</p> <p>Laser Source:Diode Laser</p> <p>Laser Wavelength:660 nm</p> <p>Laser Power:Dual Laser 30 mW + 70 mW</p> <p>Correlator:Includes both, time-domain and time-of-arrival correlators. Maximum of 1,000,000 equivalent channels</p> <p>Temperate Control:Peltier</p> <p>Temperate Range Operating range: from 10 °C below room temperature to 90 °C</p> <p>Temperate Accuracy:within +/-0.2°C</p>	
3	Amity Institute of Advanced Research & Studies (Materials & Devices)	Block-E3, 4th Floor, Room No.- 417	Advance Characterization Lab	Thermal Conductivity Meter	Linseis /THB-100	<p>Measuring ranges</p> <p>Thermal conductivity: 0.01 up to 100 W/(mK)</p> <p>Thermal diffusivity: 0.05 up to 10 mm²/s</p> <p>Specific thermal capacity: 100 to 5000 kJ/(m³ K)</p> <p>Measurement uncertainties</p> <p>Thermal Conductivity: better than 2 %</p> <p>Thermal Diffusivity: better than 5 %</p> <p>Heat Capacity: better than 5 %</p> <p>Duration of the measurement</p> <p>Solids: typically 1 to 10 min</p> <p>Liquids: typically 1 to 120 s</p> <p>Service temperature</p> <p>Sensor: -150 °C to 200 °C or -150 to 600°C</p> <p>Sensor type: Kapton or Ceramic insulated sensor</p> <p>Sample size</p> <p>Smallest sample: 3 x 3 x 3 mm</p> <p>Maximum Sample size: unlimited</p> <p>Sample consistence: solid, liquid, gel, powder, granulate</p> <p>Sample temperature*: -150 up to 600 °C</p>	



S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
4	Amity Institute of Advanced Research & Studies (Materials & Devices)	Block-E3, 4th Floor, Room No.- 417	Advance Characterization Lab	Ultra-sonicator	Telesonic	<p>Auto frequency chasing, avoiding adjustment liquid crystal display at peak value</p> <p>Menu instruction, convenient operation</p> <p>Display temperature control checking, and set over-hot protection on the samples</p> <p>10 operation programs for application, or backup after refreshing</p> <p>Output amplitude 0-100% adjustment</p>	
5	Amity Institute of Advanced Research & Studies (Materials & Devices)	Block-E3, 4th Floor, Room No.- 417	Advance Characterization Lab	UV- VIS Spectrophotometer	Shimadzu (UV-2600)	<p>Measurement wavelength range: 220 nm to 1400 nm</p> <p>Wavelength accuracy: ± 0.1 nm (656.1 nm D2), ± 0.3 nm (all range)</p> <p>Resolution:- 0.1 nm</p> <p>Photometric modes:- Absorbance (Abs.), transmittance (%), reflectance (%), energy (E)</p> <p>Photometric range:-Absorbance: -5 to 5 Abs</p> <p>Transmittance, reflectance: 0 to 100000 %</p>	
6	Amity Institute of Advanced Research & Studies (Materials & Devices)	Block-E3, 4th Floor, Room No.- 417	Advance Characterization Lab	Atomic Force Microscopy (AFM)	Nanosurf (Easy Scan 2)	<p>STM Scan Head: 500 nm, 1 μm, 500 nm LC, 1 μm LC</p> <p>Max. Scan Range: -500 nm - 1.0 μm</p> <p>Max. Z-Range: -200 nm</p> <p>Drive Resolution Z: -3 pm</p> <p>Drive Resolution XY: -15 pm</p> <p>Current Set Point: -0.1 - 100 nA in 25 pA steps ; 0.2 - 20 nA in 5 pA steps</p> <p>Imaging modes: -Constant Current (Topography), Constant Height (Current)</p> <p>Spectroscopy modes :-Current-Voltage, Current-Distance</p> <p>Tip voltage : ± 10 V in 5 mV steps</p> <p>Sample approach :-Stick-slip motor</p> <p>Sample size:-Max 10 mm diameter</p>	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
7	Amity Institute of Advanced Research & Studies (Materials & Devices)	Block-E3, 4th Floor, Room No.- 417	Advance Characterization Lab	Spectofluorophotometer	Shimadzu (RF-5301 PC)	<p>Light Source:-150W Xenon lamp. Ozone resolving type lamp housing.</p> <p>Excitation and emission monochromators:-Concave, blazed holographic grating, F/2.5, 1300 grooves/mm.</p> <p>Wavelength scale:-220-900nm.</p> <p>Measuring wavelength range:-220-750nm and 0 order as standard. 220-900nm with the optional R928 photomultiplier.</p> <p>Spectral bandwidth:-6-step selection of 1.5, 3, 5, 10, 15 and 20nm. (6nm bandwidth is available for half sample height on the excitation side only.)</p> <p>Wavelength accuracy:-±1.5nm.</p> <p>Sensitivity:-The S/N ratio is 150 or higher for the Raman line of distilled water (350nm excitation wavelength, 5nm spectral bandwidth, and 2 second response for 98% of the full scale).</p> <p>Wavelength scanning:-7-step selection of Survey (about 5500nm/min), Super (about 3000nm/min), Very Fast, Fast, Medium, Slow and Very Slow.</p> <p>Wavelength slewing speed:-About 20,000nm/min.</p> <p>Response:-8-step selection of 0.02, 0.03, 0.1, 0.25, 0.5, 2, 4, and 8 seconds for 98% of the full scale.</p> <p>Sensitivity selection:-2-steps of HIGH and LOW. (The sensitivity at HIGH is about 50 times that of LOW.)</p> <p>Interface:-RS-232C interface, interface for autosampler, and interface for sipper unit.</p>	
8	Amity Institute of Advanced Research & Studies (Materials & Devices)	Block-E3, 4th Floor, Room No.- 416	Chemistry Lab	Glove Box System	Hind High Vacuum Co.(P) Ltd.	<p>500mm wide and 500mm wide stainless steel box chambers with options for water cooling</p> <p>Single or multiple resistance sources, four position turret resistance source</p> <p>Temperature-controlled sources and controllers for organic materials</p> <p>3kW multi-pocket electron beam source</p> <p>Static and rotary work holders</p> <p>Source shutters and substrate shutters</p> <p>Glow discharge cleaning</p> <p>Film thickness monitoring</p>	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
9	Amity Institute of Advanced Research & Studies (Materials & Devices)	Block-E3, 4th Floor, Room No.- 416	Chemistry Lab	Rapid Thermal Processing Unit (RTP)	MTI Corporation (GSL -100X)	<p>Furnace Structure:-Double layer steel casing with air cooling keeps furnace surface temperature lower than 60°C.</p> <p>Heating Elements:-8 pcs 1Kw Halogen light tube, (Dia. =10mm, L=300mm, Heated Length =200mm)</p> <p>Standard working life : 2000 hrs. (depends on heating rate)</p> <p>The Halogen light tube is consumable. Please click picture left to order spare one</p> <p>Heating Zone:-12" length with 4" constant temperature zone within +/-5°C uniformity</p> <p>Working Temperature:-1100°C Max. for < 10 minutes</p> <p>800°C Max. for < 120 minutes</p> <p>600°C Max. for Continuous</p> <p>Max. Heating Rate:-50°C/sec</p> <p>Max. Cooling: 60°C/min (Under vacuum: 200 mtorr), 117°C/min (under atmospheric pressure)</p> <p>Lowest Cooling: 10 °C / minute</p> <p>Thermocouple:-K type, the head of the thermocouple touches the Aluminum Nitride sample holder from underneath</p> <p>Temperature Controller:-PID automatic control via SCR</p>	
10	Amity Institute of Advanced Research & Studies (Materials & Devices)	Block-E3, 4th Floor, Room No.- 416	Chemistry Lab	Tube Furnace	Delta Furnaces	<p>A tube box furnace is an electric heating device.</p> <p>Used in:</p> <ul style="list-style-type: none"> To conduct synthesis Purification of organic synthesis Purifications of inorganic compounds 	



S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
11	Amity Institute of Advanced Research & Studies (Materials & Devices)	Block-E3, 4th Floor, Room No.- 416	Chemistry Lab	Lyophilizer (Freeze Dryer)	Lyophilizer	Temperature Range:- -85°C Display Resolution:-0.1°C Temperature Controller:-Microprocessor based Controller with RTD Sensor(PT-100) Ports:-8 Ports with 12 manifolds (including 4 spare) Chamber Size :-Drying Chamber-225mmx150mm Cold Trap Chamber-350mmx150mm	
12	Amity Institute of Advanced Research & Studies (Materials & Devices)	Block-E3, 4th Floor, Room No.- 415	Thin Flim Lab	Single chamber PECVD systems with reactive ion etching facility	Hind High Vacuum Co.(P) Ltd. (12" MSPT)	Chamber size:- 290 (D)mm X 400 (L) mm Electrode RF :- (water cooled) Substrate holder :-125 mm Ultimate Vacuum:- 5 x 10 ⁻⁶ m.bar	
13	Amity Institute of Advanced Research & Studies (Materials & Devices)	Block-E3, 4th Floor, Room No.- 415	Thin Flim Lab	High Vacuum Evaporation System	Vacuum Equipment Co.	High Vacuum Valve (Butterfly, 90 ° plate valve, bevel gear operated/ cam operated valve) Liquid Nitrogen trap/ Water cooled chevron baffle Oil vapour diffusion pump Vacuum pipe line with Roughing/ Backing valve (3-port ball valves, Butterfly valves, 90 ° plate valves etc.) Direct drive rotary vacuum pump Ultimate vacuum of the order of 10 ⁻⁶ torr	



S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
14	Amity Institute of Advanced Research & Studies (Materials & Devices)	Block-E3, 4th Floor, Room No.- 414	Optical Lab	Fourier Transform Infra-Red Spectroscopy (FTIR)	Bruker Optics /ALPHA FT-IR	<p>Low-cost, small footprint FT-IR spectrometer</p> <p>Quality components with long lifetime</p> <p>Intuitive instrument and software design for maximum ease of use</p> <p>Flexibility: Easily exchangeable QuickSnap™ sampling modules for every analytical question</p> <p>Intelligence: Electronic coding of sampling modules and spectrometer components</p> <p>RockSolid™: Robust, high performance results with Bruker's well-proven interferometer design</p>	
15	Amity Institute of Advanced Research & Studies (Materials & Devices)	Block-E3, 4th Floor	Research Lab	Real-Time PCR System	Applied Biosystems™ (QuantStudio™ 5)	<p>The Applied Biosystems QuantStudio 5 Real-Time PCR System for Human Identification with tower computer is the latest addition to our human identification (HID) real-time PCR family of products. This instrument is designed for both new and experienced users who need a simple, reliable, and affordable real-time PCR system that doesn't require compromise on performance or quality. When used with our latest advances in quantification chemistry and HID Real-Time PCR Analysis Software, this system offers a sensitive, robust solution for forensic DNA quantification. It also helps prepare laboratories for future quantification technologies. With maximum dye versatility, this HID solution offers accurate, trusted results in a small benchtop footprint.</p>	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
16	Amity Institute of Advanced Research & Studies (Materials & Devices)	Block-E3, 4th Floor	Solar & Water Management Lab	Flame Atomic Absorption Spectrometer	Skyray Instruments USA (AAS 6000)	<p>AAS6000 Series are Single Beam Atomic Absorption Spectrometers controlled and data processed by external computer and internal CPU chips. AAS6000 can be used to measure the concentration of macro, micro and trace metal elements and half-metal elements in various kinds of substances. AAS6000 is provided with three reading methods Continuum, Retention and Peak Height for measuring absorbency, density and emission intensity. It has three signal modes: Atomic Absorption, Background Absorption and Background Correction Absorption, The reading time ranges from 0.5 s to 99s. AAS6000 include 8 computer controllable hollow cathode lamp holders. All working conditions of the instrument such as lamp number, lamp current, negative high voltage, working wavelength, slit, burner location, ignition/extinction and adjustment of burning ratio can be set by keyboard input. The functions of the instrument include automatic gain/ automatic zero, background correction, automatic energy balance, automatic peak location/wavelength scan, and automatic peak location on basis of the retrieval of peak values. All the readings, measurement results, calibration curves and operation conditions can be saved or printed out.</p>	
17	Amity Institute of Advanced Research & Studies (Materials & Devices)	Block-E3, 4th Floor	Research Lab	Cell Imaging Systems	Life Technologies - EVOS	<p>The EVOS Imaging System is a digital, transmitted light, inverted imaging system for cell and tissue culture applications and routine cell maintenance. Its color camera and high-quality optical system deliver high-definition images with exceptional ease. The EVOS system is an integrated transmitted-light inverted imaging system that combines high-quality optics, a high-resolution LCD display, and a digital color camera and USB storage. The EVOS imaging systems are built from the ground up to maximize performance and optimize workflow.</p>	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
18	Amity Institute of Advanced Research & Studies (Materials & Devices)	Block-E3, 4th Floor	Biochemistry Lab	Refrigerated Centrifuge	REMI (CPR - 24 Plus)	<p>CPR-24 Plus Refrigerated Centrifuge is designed for centrifugation of temperature sensitive material and find application in routine and research work.</p> <p>Rust proof, easy to clean Stainless Steel centrifuge inner chamber with steel guard.</p> <p>High speed centrifuge</p> <p>Item Code: CPR24PLUS</p> <p>Production Capacity: 20000RPM</p>	
19	Amity Institute of Advanced Research & Studies (Materials & Devices)	Block-E3, 4th Floor	Biochemistry Lab	Micro Cooling Centrifuge	Thermo Scientific (Sorvall LEGEND X1)	<p>Process diverse laboratory applications with the high-performance Thermo Scientific™ Sorvall™ Legend™ X1 Centrifuge Series, which offers a broad range of rotors and adapters, including lightweight Thermo Scientific™ Fiberlite™ carbon fiber rotors.</p> <ul style="list-style-type: none"> - CFC-free refrigeration system - Temperature Range: -10° to +40°C - Pre-Cooling Function with direct button - 23.8L × 24.5W × 14.2in.H [34.3in.H open] (60.5 × 62.3 × 36cm [87cm open]) - Net weight: 201.7 lb. (91.5kg) 	
20	Amity Institute of Advanced Research & Studies (Materials & Devices)	Block-E3, 4th Floor	Biochemistry Lab	Microplate Reader	Erba Lisa Scan EM	<p>System Type: Open System</p> <p>Plate Types: 96 Well Plates</p> <p>Well Type: U.V. and Flat Bottom Wells</p> <p>Test Programs: 100 User Defined Test Programs</p> <p>Measuring System: 8- Channel Optical System</p> <p>Lamp Source: Tungsten Halogen with Lamp saver function</p>	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
21	Amity Institute of Advanced Research & Studies (Materials & Devices)	Block-E3, 4th Floor	Clean Room Lab	Microscope	Nikon Microscope E200	Brand: Nikon Model: E- 200 Illumination (V): 6V 30 W halogen/3W LED Head Type: Binocular / Trinocular Magnification: 40x to 1000x Automation Grade: Manual	
22	Amity Institute of Advanced Research & Studies (Materials & Devices)	Block-E3, 4th Floor	Thin Flim Lab	Vacuum Test Chamber	Vacuum Enterprises, Delhi	Vacuum Test Chamber for Gas Sensing	
23	Amity Institute of Advanced Research & Studies (Materials & Devices)	Block-E3, 4th Floor	Thin Flim Lab	Vacuum Pumping System	Hind High Vacuum Company Private Limited (HIND HIVAC VS - 150D)	High Vacuum Pumping System for laboratory use. Suitable for the most of the vacuum applications.	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
24	Amity Institute of Advanced Research & Studies (Materials & Devices)	Block-E3, 4th Floor	Chemistry Lab	Lab Ball Mill	Bionics Scientific Technologies Pvt. Ltd	Ball Mill for Lab use	
25	Amity Institute of Advanced Research & Studies (Materials & Devices)	Block-E3, 4th Floor	Solar & Water Management Lab	Water Bath	Vacuum Enterprises, Delhi	Water Bath for Lab use	
26	Amity Institute of Advanced Research & Studies (Materials & Devices)	Block-E3, 4th Floor	Chemistry Lab	Microprocessor Programmable Furnace	Mertex Scientific Instruments (P) Ltd.	Microprocessor Programmable Furnace for Lab use	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
27	Amity Institute of Advanced Research & Studies (Materials & Devices)	Block-E3, 4th Floor	Chemistry Lab	Humidity Chamber	Vacuum Enterprises, Delhi	Humidity Chamber for Lab use	
28	Amity Institute of Advanced Research & Studies (Materials & Devices)	Block-E3, 4th Floor	Chemistry Lab	Oil Bath	U-TECH	Oil Bath for Lab use	
29	Amity Institute of Advanced Research & Studies (Materials & Devices)	Block-E3, 4th Floor	Chemistry Lab	Cooling Humidity Cabinet	Jupiter Engineering Work	JEW Cooling Humidity Cabinet for Lab use	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
30	Amity Institute of Advanced Research & Studies (Materials & Devices)	Block-E3, 4th Floor	Research Lab	Spin Coater	APEX Spin NXG-M1	Specifications: <input type="checkbox"/> Type: Precision controlling through micro controller. <input type="checkbox"/> Speed range: 100 RPM to 10000 RPM. <input type="checkbox"/> Accuracy : $\pm 1\%$ error across the full range <input type="checkbox"/> Working Chamber : PTFE coated <input type="checkbox"/> Power Supply : 230 V/AC, 50 Hz <input type="checkbox"/> Vacuum Suction : Integrated Vacuum release switch <input type="checkbox"/> Protocol Setting : Dial Knob & Buttons <input type="checkbox"/> Display : Real-time display of R.P.M. & Time <input type="checkbox"/> Acceleration : 2000rpm/sec (Constant) <input type="checkbox"/> Wattage : 150W	
31	Amity Institute of Advanced Research & Studies (Materials & Devices)	Block-E3, 4th Floor	Biochemistry Lab	Incubator Shaker	BIOGENE (Shaker)	Bio Gene Incubator Shaker With Microprocessor Based Digital Temperature Controller and Digital Display	
32	Amity Institute of Advanced Research & Studies (Materials & Devices)	Block-E3, 4th Floor	Research Characterization Lab	Solar Spectrum Analyzer	NA	Solar Spectrum Analyzer for Lab use	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
33	Amity Institute of Advanced Research & Studies (Materials & Devices)	Block-E3, 4th Floor	Chemistry Lab	Vacuum Oven	Life science equipment India	Vacuum level : 10^{-3} Temperature limit: 250 deg C	
34	Amity Institute of Advanced Research & Studies (Materials & Devices)	Block-E3, 4th Floor	Chemistry Lab	KBr Palatizing Machine	Model No: M15 Technosearch Instruments	Max. Pressure: 10 psi	
35	Amity Institute of Advanced Research & Studies (Materials & Devices)	Block-E3, 4th Floor	Solar & Water Management Lab	Electronic Weighing Balance	Mettler Toledo	Minimum resolution: 0.01 mg	
36	Amity Institute of Advanced Research & Studies (Materials & Devices)	Block-E3, 4th Floor	Advance Characterization Lab	AmiSolar - Life Time Mesurement Unit	Indegineous Instrument made by AIARS(M&D)	Measure the Lifetime and Diffusion Length for minority carriers in Solar Cells, from any size up to the latest technology of 8" solar cells. Can measure for any type of Si based Solar Cells.	





Amity Institute of Nanotechnology (AINT)





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
1	AINT	J-2 303	Instrumentation and Measurement lab	Atomic Force Microscope	Solver (Pro)	<p>A powerful tool for investigation of nano materials shape and size.</p> <p>Sample Size - 100X20mm</p> <p>Scanners – 50X50X1.0µm 100X100X10µm</p> <p>Vibration isolation – Yes</p> <p>Optical Viewing- Resolution - 3µm</p> <p>Magnification – 48X to 578X</p>	
2	AINT	J-2 303	Instrumentation and Measurement lab	Dynamic Light Scattering	Malvern (Nano S 90)	<p>A perfect system for measuring molecular size using Dynamic Light Scattering Measurement</p> <p>Range – 0.3 nm- 0.5 micron (diameter)</p> <p>Minimum Sample volume - 20µL</p> <p>Light Source – He-Ne Laser 633 nm</p> <p>Accuracy - +/-2%</p> <p>Temperature – 10°C – 35°C</p>	
3	AINT	J-2 303	Instrumentation and Measurement lab	X Ray Diffractometer	Bruker(D 2 Phaser)	<p>A novel desktop X-ray diffraction tool with work flow software Diffraction .Suite Geometry- θ/θ and $\theta/2\theta$</p> <p>X-ray wavelengths – Cu Kα</p> <p>X-ray generation – 30 KV/10mA</p> <p>Power Supply – 90-250V</p>	
4	AINT	J-2 303	Instrumentation and Measurement lab	PCR	Agilent Technologies (Sure Cycler 8800)	<p>Highest speed and flexible reaction volumes</p> <p>Agilent's enzymes with Fusion technology perform with the speed of the instrument to produce faster and better results</p> <ul style="list-style-type: none"> x High-resolution 7" touch screen x PCR wizards to improve start-up time and quickly create new protocols tailored to your research x Pre-loaded protocols and easily add new protocols x Sufficient memory to store 10,000 protocols 	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
5	AINT	J-2 303	Instrumentation and Measurement lab	ELECTRO METER	KEITHLEY(6516)	<p><1fA noise >200TΩ input impedance Charge measurements from 10fC to 20μC High speed -- up to 1200 readings/second Interfaces readily with computers, switches Cancels voltage and current offsets easily</p>	
6	AINT	J-2 301	Instrumentation Lab	THERMAL EVAPORATION UNIT	VECCO	<p>Suitable for thin film deposition with 18X24" Pyrex bell jar, Varian Cryo pump, 2KVA filament transformer, 10⁻⁵ Torr Vacuum, control and top switch, manual valves, and Pirani gauge</p>	
7	AINT	J-2 301	Instrumentation Lab	Photo Resist Spinner	DUCOM	<p>Excellent way to coat thin, uniform layer of materials. Speed range- 1000-6000rpm Timer – 10 - 60 Sec. Substrate size – 75mm (Max) Vacuum suction – Yes</p>	
8	AINT	J-2 301	Instrumentation Lab	UV-VIS Spectrophotometer	Shimadzu(UV-1800)	<p>Wavelength range – 190-1100nm Wavelength display- 0.1nm increments Photometric range – Absorbance – 4 to 4 Abs. Transmittance 0% to 400%</p>	


S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
10	AINT	J-2 301	Apex Double-barrier Langmuir-Blodgett Troughs with LB Film Deposition System	Apex LB System Control Unit		<p>Outer Trough Dimension: 590 mm (L) X 225 mm (W) X 30 mm (H) Deposition Well Dimension: 165 mm (L) X 60 mm (W) X 60 mm (H) Trough Volume: 900 ml, Trough Temperature Controlling External Water Circulation Jacket Environmental Chamber: Fully Transparent, Three Sided Transparent Acrylic, Front Sided Openable Glass Door, N2 & other Inert Gas Purging Port, Chamber Illumination Provision, Chamber Exhaust Provision Aspirator Pump: For Impurity removal, Sensor: Super sensitive Film Balance with Pt (optional) and Paper Wilhelmy Plates Apex LB System Control Unit: Fully Automatic & PC-controlled Sensor Resolution: 0.01 mg, Surface Pressure Range: up to 300 mN/m Surface Pressure Sensitivity: Better than 0.005 mN/m Measurement Accuracy: ± 0.1 mN/m, Dipping, Lifting & Compression Speed: 0.5-270 mm/min, Dipping, Lifting & Compression Speed Resolution: 0.01 mm/min, Power: Universal Input, Optional Interface: Interface to pH probe, Interface to Magnetic Stirrer</p>	
11	AINT	J-2 509	Instrumentation Lab	LCR Hi Tester	HIOKI (3532-50)	<p>High speed measurement of 5ms High precision measurement of $\pm 0.08\%$ basic accuracy Interactive touch panel operation Zoom feature for easy viewing Print measurement values and comparator results</p>	
12	AINT	J-2/408	Nanobiotechnology	Cooling Centrifuge	Remi(C-24)	<p>Max. Speed(rpm):20000 Max. RCF'g':37570 Max. Tube Size(ml):100 Max. Capacity(ml): 400 Lowest Temp.°C :-8</p>	
16	AINT	J-2/509	Research Lab	Gas Sensitivity Setup	APLAB (LQ6324 P)	<p>Gas Sensitivity Setup: Multi Output Linear DC Power Supply Digitally Controlled Output Settings Store / Load 10 Sets of Output Settings in Internal Memory USB Interface Provided Programmable Arbitrary Variable Output by Feeding Coefficient of the Curve User Friendly Front End Low Cost General Purpose Laboratory Bench Unit Fully Protected against Overload and Short Circuit 5V/5A with Over Voltage Crowbar Protection for Digital ICs Three Independent Outputs Electrically Isolated from Each Other Electrically Floating Outputs up to 500V DC w.r.t. Ground Precise Regulation, Low Ripple and Noise for Both Constant Voltage & Current Operation</p>	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
19	AINT	J-2/304	Research Lab	FLUROSCENCE MICROSCOPE	LMI	LMI FLUROSCENCE MICROSCOPE can be used in various microscopy applications	
21	AINT	J-2/510	Nano-Chemistry Lab	CVD Tube Furnace	KHERA (KI-180A)	CVD Tube Furnace	
22	AINT	J-2/301	Research Lab	3D Printer	CoLiDo (X3045)	<p>CoLiDo X3045 is the mid-size 3D Printer for industrial use. Not only its incredible build volume of 300 x 300 x 450mm allows to make industrial-type prints, but also with robust structure helps reduce shaking printing. Moreover, CoLiDo X3045 is easy to operate with its 2-way connection via either USB or SD card.</p> <p>You can produce high quality prototypes for testing or sale presentation with the best price mid-level industrial use 3D Printers indeed!</p> <p>The only 3D printer brand allows toolless print object removal – SIMPLY BY YOUR HAND! Extra large build size – 11.8" x 11.8" x 17.7" (30 x 30 x 45 cm) Clean and easy to use Industrial level quality and smooth build surface – up to 0.1 mm resolution Stable and quiet</p>	

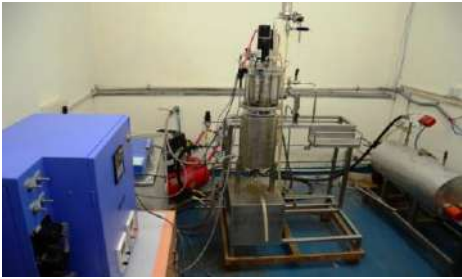



S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
22	AINT	J-2/301	Research Lab	Microprocessor UV-VIS Spectrophotometer (Single Beam)	KHERA	Microprocessor UV-VIS Spectrophotometer is a single beam compact and easy to operate instrument for spectrophotometric analysis.	
13	AINT	J-2/301	Research Lab	Centrifuge	REMI (PR - 24)	Research Centrifuge Usage/Application: Centrifugation Voltage: 230V, Display: LED Max. Speed: 20000 RPM Max. Capacity: 400 ml	
13	AINT	J-2/301	Research Lab	Ultrasonic Processor with Ultrasonic Cell Counter Noise Isolating Chamber	Labman	Working frequency: 20-25KHz frequency automatic tracking Timing: 0-99H59M59S (can be set) Working mode: Pulsed, Pulse: 0.1-99.9s adjustable (interval/working) Temperature control Control samples' temperature (0-100) Alarm Fault, temperature, time, Input method: touch screen control, 4.3 inch TFT, Display content : Temperature, power, time, etc., Protective device Program automatic error correction, overload, over temperature protection display, Storing data: 20 groups, password: Have user password protection, Standard configuration: Ultrasonic generator (host) one set Sealed transducers: + 6MM horn one set Φ6mm (process capacity 10ml-100ml)	
25	AINT	J-2/303	Research Lab	UV-VIS Spectrophotometer	Shimadzu (UV-2600)	Double-beam, Single monochromator - Focused Application: Solid sample reflectance measurement with the Integrating Sphere and/or the optional large sample compartment - All routine applications that are expected of a high-end UV-Vis spectrophotometer Selectable bandwidths to comply with requirements of regulated laboratories and high-end research, from sub-nanometers to 5nm and includes low stray light option for a larger bandwidth Measurements up to 5 abs units Wavelength region expandable to the near-IR region using the Integrating sphere Advanced Regulatory Compliance – Full support for Pharmacopeia (JP, USP and EP), GLP/GMP, FDA 21 CFR Part 11 and other regulations with the appropriate software package	



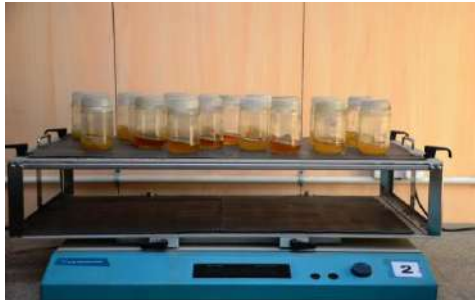
S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
27	AINT	J-2/308	Research Lab	FTIR Spectrometer	Thermo Scientific™ (Nicolet™ iS™5 FT-IR Spectrometer)	<p>The iD5 ATR Accessory for the Nicolet iS5 Features: Multiple crystal options: diamond laminate, zinc selenide (ZnSe), germanium (Ge), silicon (Si) and AMTIR</p> <p>Proprietary easy-to-change crystal plates that do not require realignment</p> <p>Single reflection 2mm crystals address most general purpose material identification or QC needs</p> <p>High-pressure clamp is calibrated to deliver reproducible pressure to the crystal plate</p> <p>Durable diamond single-reflection crystal includes a 5-year warranty</p> <p>Quick and trouble-free cleanup with the chemically resistant gasket that provides a tight interface between the tray and crystal plate</p> <p>Optional Materials Include: 3-reflection ATR for analysis of minor components</p> <p>Heated crystal plates; Specular reflectance plate for analyzing coatings on reflective materials; Other pressure devices</p>	
29	AINT	J-2/308	Research Lab	Potentiostat	Biologics Inc. (SP-200)	<p>Slots available 1</p> <p>Electrodes connections 2, 3, 4, 5</p> <p>Compliance ± 12 V</p> <p>Acquisition time & timebase 1 μs with ARG option, 20 μs with EC-Lab developer package, 200 μs with EC-Lab.</p> <p>Live processed data : 200 μs, independent of sampling rate (Q charge, Q discharge, Energy, Power...)</p> <p>Software EC-Lab, EC-Lab developer package</p> <p>Add-ons compatibility Yes</p> <p>Dimension (W x D x H) 167 x 410 x 225 mm</p> <p>Weight 7.2 kg</p> <p>Power requirement 350 W</p> <p>Interface Ethernet (Dipnet, LAN, WiFi), USB 2.0</p>	
30	AINT	J-2/308	Research Lab	Hydraulic Press	PCI Analytics (CAP 15T)	15 ton laboratory hydraulic pallet press is a compact, elegant and robust machine for various pelletizing applications	
30	AINT	J-2/308	Research Lab	Melt Flow Index	Presto	Melt Flow Index is used to measure the MFR of the various materials like plastic granules. The instrument comprises of a microprocessor based PID controller. The temperature of the instrument can be set between ambient to 400°C. The resolution of the device is 0.10°C and has an accuracy of ± 0.10 °C. The device is equipped with the digital timer which can be pre-settable maximum up to 59 minutes and 59 seconds.	





Amity Institute of Microbial Technology (AIMT)




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
1	Amity Institute of Microbial Technology	BLOCK-E3, 4th Floor, Room No. 401	Plant Pathogen Interaction Lab	Confocal Microscope (Resonant Scanning Confocal System)	Nikon (A1R+)	<p>Scan head input/output port- 2 laser input ports 3 signal output ports for standard, spectral and optional detector*1 Laser-LU-N3 3-laser unit 405 nm, 488 nm, 561nm lasers are installed ; built-in AOTF 4-laser unit 405 nm, 488 nm, 561nm,640nm laser are installed;built-in AOTF *Use LU-N4S when using the spectral detector LU-NV series laser unit Compatible lasers : 405 nm, 445 nm, 458nm,488nm,514nm,532nm,561nm,594nm,640nm,647nm ; built-in AOTF Standard fluorescence detector Wavelength 400-750 nm Detector A1-DU4 4 Detector Unit: 4 standard PMTs A1-DUG GaAsP Multi Detector Unit: 2 GaAsP PMTs + 2 standard PMTs Filter cube 6 filter cubes commonly used for a microscope mountable on each of three filter wheels Recommended wavelengths: 450/50, 482/35, 515/30, 525/50, 540/30, 550/49, 585/65, 595/50, 700/75 Diascopic detector (option) Wavelength 485-650 nm FOV Square inscribed in a ϕ18 mm circle Image bit depth 4096 gray intensity levels (12 bit) Scan head Standard image acquisition Scanner: galvano scanner x2 Pixel size: max. 4096 x 4096 pixels Scanning speed: Standard mode: 2 fps (512 x 512 pixels, bi-direction), 24 fps (512 x 32 pixels, bi-direction) Fast mode: 10 fps (512 x 512 pixels, bi-direction), 130 fps (512 x 32 pixels, bi-direction)*2 Zoom: 1-1000x continuously variable Scanning mode: X-Y, X-T, X-Z, XY rotation, Free line High-speed image acquisition Scanner: resonant scanner (X-axis, resonance frequency 7.8 KHz), galvano scanner (Y-axis) Pixel size: max. 512 x 512 pixels Scanning speed: 30 fps (512 x 512 pixels) to 420 fps (512 x 32 pixels), 15,600 lines/sec (line speed) Zoom: 7 steps (1x, 1.5x, 2x, 3x, 4x, 6x, 8x) Scanning mode: X-Y, X-T, X-Z Acquisition method: Standard image acquisition, High-speed image acquisition, Simultaneous photoactivation and image acquisition Dichroic mirror Low-angle incidence method, Position: 8 Standard filter: 405/488, 405/488/561, 405/488/561/638, 405/488/543/638, 457/514, BS20/80 Optional filter: 457/514/561 Pinhole 12-256 μm variable (1st image plane) Spectral detector*3 (option) Number of channels 32 channels Wavelength detection range 400-750 nm Spectral image acquisition speed 4 fps (256 x 256 pixels), 1000 lps Pixel size: max. 2048 x 2048 Wavelength resolution 80 nm (2.5 nm), 192 nm (6 nm), 320 nm (10 nm) Wavelength range variable in 0.25 nm steps Unmixing High-speed unmixing, Precision unmixing Z step Ti-E: 0.025 μm, FN1 stepping motor: 0.05 μm Ni-E: 0.025 μm Compatible microscopes ECLIPSE Ti-E inverted microscope, ECLIPSE FN1 fixed stage microscope, ECLIPSE Ni-E upright microscope (focusing nosepiece type and focusing stage type) Option Motorized XY stage (for Ti-E/Ni-E), High-speed Z stage (for Ti-E), High-speed piezo objective-positioning system (for FN1/Ni-E) Software Display/image generation 2D analysis, 3D volume rendering/orthogonal, 4D analysis, spectral unmixing Image format JP2, JPG, TIFF, BMP, GIF, PNG, ND2, JFF, JTF, AVI, ICS/IDS Application FRAP, FLIP, FRET(option), photoactivation, three-dimensional time-lapse imaging, multipoint time-lapse imaging, colocalization Control computer OS Microsoft Windows® 7 Professional 64bits SP1 CPU Intel Xeon E5-2643v3 (3.40 GHz/20 MB) or higher Memory 16GB</p>	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
2	Amity Institute of Microbial Technology	BLOCK-E3, 4th Floor, Room No.- 401	Plant Pathogen Interaction Lab	Real Time -PCR	BIO-RAD CFX-96	The CFX96™ optical reaction module converts the C1000 Touch™ thermal cycler chassis into the powerful and precise CFX96 Touch real-time PCR detection system. This six-channel system combines advanced optical technology with precise thermal control to deliver sensitive, reliable detection. Quickly set up runs and monitor amplification traces in real time on the integrated LCD touch screen. With up to five-target detection, unsurpassed thermal cycler performance, unrivaled stand-alone functionality, and powerful yet easy-to-use software, the CFX96 Touch system is designed to advance your qPCR.	
3	Amity Institute of Microbial Technology	BLOCK-E3, 4th Floor, Room No.- 402	Research Lab	Gel Documentation System	Biosync Teknology	<p>Camera:-Digital, single-lens reflex, AF/AE camera with built-in flash with APS-C size CMOS sensor</p> <p>Zoom:-12X Optical Zoom and 4X Digital Zoom</p> <p>Lens:-6.0-72.0 mm f/2.7-3.5 (35 mm film equivalent: 36-432 mm)</p> <p>Focusing range:-Normal: 1.6 ft./50 cm-infinity (WIDE), 3.0 ft./90 cm-infinity (TELE), Macro: 3.9 in. 1.6 ft./10-50 cm (W)</p> <p>Rechargeable AA-size NiMH Battery</p> <p>USB 2.0 Hi-Speed (mini-B jack)</p> <p>Max Gel:-size 20X20 cm</p> <p>Image Storage:-SD Memory Card, SDHC Memory Card, Multi Media Card or directly on PC</p>	
4	Amity Institute of Microbial Technology	BLOCK-E3, 4th Floor, Room No.- 401	Plant Pathogen Interaction Lab	Centrifuge	Scanspeed /1580 R	<ul style="list-style-type: none"> • Multi-purpose high-speed centrifuge(1580R/refrigerated). • Wide range of rotors for a variety of tubes including microtubes. • Temperature settings from -20C to ambient. • "Fast Cool" function for rapid cooling. • Automatic identification of a rotor. • Automatic alarm system for imbalance, over-heat and over-speed. • 5 acceleration and 5 deceleration ramps for sensitive samples. • Program memory for up to 100 programs. • Automatic door release(1580). • Pulse spin button. • Max. RPM 15,000 RPM • Max. capacity 80 x 15 MI • Microprocessor controlled • Run time ≤ 9 hour 59 min or continuous 	



S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
5	Amity Institute of Microbial Technology	BLOCK-E3, 4th Floor, Room No. 401	Plant Pathogen Interaction Lab	Fermentor	Bioage	Industrial Scale Fermenter	
6	Amity Institute of Microbial Technology	BLOCK-E3, 4th Floor, Room No. 401	Plant Pathogen Interaction Lab	Agrose Gel Electrophoresis	Bio-Rad /PowerPac HV 5000V	The PowerPac HV electrophoresis power supply supports an output of 5,000 V, 500 mA, and 400 W. Suitable for all high-voltage applications, it is ideal for IEF and DNA sequencing.	
7	Amity Institute of Microbial Technology	BLOCK-E3, 4th Floor, Room No. 403	Microscopy, Incubator and Plant Tissue Culture Lab	Rotary Shaker	REMI	Platform type mounted on Heavy Duty MS angle frame fitted with heavy cast Iron pulleys. Electrically driven PMDC Motor offering rotary shaking action at fixed speed of 200 rpm or variable speed from 50 to 200 rpm. Flexible spring action lotus shaped clamps: one tray is provided for holding flasks of 500 ml.	
8	Amity Institute of Microbial Technology	BLOCK-E3, 4th Floor, Room No. 403	Microscopy, Incubator and Plant Tissue Culture Lab	SHAKER	REMI (CIS - 24 Plus)	<p>Inner Chamber S.S. 304 & Outer chamber M.S. powder coated with Plexi glass inner door</p> <ul style="list-style-type: none"> • Variable speed from 20 RPM to 250 RPM • Digital display of speed with preset facility • Shaking amplitude 25 mm <p>Chamber Volume (Litres):180 Max shaking Capacity:9 litres Platform Size:18" x 20" External Dimensions :70 x 78 x 125 W x D x H (cm) Temperature Range (Accuracy):5°C to 60° C (±0.5°C)</p>	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
9	Amity Institute of Microbial Technology	BLOCK-E3, 4th Floor, Room No. 406	Analytical Lab	Double Beam UV-VIS Spectrophotometer	Labtronics (L-2200)	<p>Wavelength Range:-190-1100 nm Spectral Bandwidth:-1 nm Working Mode:-T,A,C,E Optical System:-Double beam Scanning Speed:-Fast / Medium / Slow Photometric Range:-0.3 - 3.5 A, 0 to 220 %T Wavelength Accuracy:±0.3 nm Photometric Accuracy:±0.3% T (0-100% T)/ ±0.002 A (0-0.1 A) Detector:-Dual Silicon Photodiode Display:-6 inches high light blue LCD Power:-AC:220V + 10%, 50 Hz.</p>	
10	Amity Institute of Microbial Technology	BLOCK-E3, 4th Floor, Room No. 406	Analytical Lab	UV-VIS Spectrophotometer	Shimadzu (UV-1800)	<p>Wavelength range :-190 to 1100nm Spectral bandwidth:- 1nm (190 to 1100nm) Wavelength display 0.1-nm increments Wavelength accuracy ±0.1nm at 656.1nm D2 ±0.3nm (190 to 1100nm) Wavelength repeatability ±0.1nm Photometric system Double Beam Photometric range Absorbance: -4 to 4 Abs Transmittance: 0% to 400%</p>	
11	Amity Institute of Microbial Technology	BLOCK-E3, 4th Floor, Room No. 405	Bioprocess Lab	Orbital Shaker	Lab Companion /SKC-7200	<p>The Lab Companion Orbital Platform Shaker (19mm Orbit) has an innovative triple-cam shaking mechanism and offers a reliable performance across a wide speed range. Specially designed to carry out heavy-duty and trouble-free operations continuously. Special acceleration and deceleration circuitry: Low-profile design (122 mm high) minimizing vibration or sliding caused by the high speed shaking motion. Control System: Feedback control PID Display: VFD Shaking System Motion type: Orbital Frequency (RPM): 30 to 500 Rpm Control at 100rpm: ±1 Orbit size (mm / inch, dia): 50 / 1.96</p>	



S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
12	Amity Institute of Microbial Technology	BLOCK-E3, 4th Floor, Room No. 405	Bioprocess Lab	Refrigerator -20°C	SAMSUNG	23 cu. ft. French Door Refrigerator Counter-Depth Design Large Capacity Twin Cooling Plus™ System LED Lighting	
13	Amity Institute of Microbial Technology	BLOCK-E3, 4th Floor, Room No. 408	Sophisticated Instruments	Particle size & zeta potential analyser	ZEN3690/Malv	To measure charge and size of nano partical	
14	Amity Institute of Microbial Technology	BLOCK-E3, 4th Floor, Room No. 408	Sophisticated Instruments	Gas Chromatograph	6700/ Newchro	To study peaks of volatile components	
15	Amity Institute of Microbial Technology	BLOCK-E3, 4th Floor, Room No. 406	Analytic Lab	Temperature Gradient Gel Electroph	3224161/Biom etera	To Study microbial DNA	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
16	Amity Institute of Microbial Technology	BLOCK-E3, 4th Floor, Room No. 402	Research Lab	Lovibond comparator	TB210IR/Loviband	To test microbial quality	
17	Amity Institute of Microbial Technology	BLOCK-E3, 4th Floor, Room No. 402	Research Lab	Nano drop	SN 3754/Thermo fisher	Quantification of DNA	
18	Amity Institute of Microbial Technology	BLOCK-E3, 4th Floor, Room No. 402	Research Lab	Ultralow deep freezer-80	DW86L388/H aier	Preservation of culture	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
19	Amity Institute of Microbial Technology	BLOCK-E3, 4th Floor, Room No. 401 (A)	M.sc Lab1	Lyophilizer	SNSFD50/SN solutions	Preservation of culture	
20	Amity Institute of Microbial Technology	BLOCK-E3, 4th Floor, Room No. 403	M.sc Lab 2	Elisa Reader	20917/Biorad	To study sensitive medical clinical samples	
21	Amity Institute of Microbial Technology	BLOCK-E3, 4th Floor, Room No. 402	Analytic Lab	Atomic Absorption Spectrophotometer	Analytik Jena GmbH - novAA ® 350	<p>novAA 350 - a robust, easy to use flame technique AA Spectrometer</p> <p>Its novel operating concept with clearly structured user interface makes the novAA® 350 the ideal partner for daily laboratory routine. The novAA® 350 meets all your expectations and requirements of an easy to use and powerful flame AAS. At the first glance the advantages to the user are already striking: Ideal protection of the optic system against toughest conditions through a unique special covering</p> <p>Single and double beam mode</p> <p>8 lamp changer</p> <p>Excellent performance for flame applications</p> <p>No problem with the toughest matrices through strong and powerful background correction</p> <p>Safe operation is a top priority especially in flame AAS. Rely on a tight control system - Self Check System. With a multitude of sensors, all safety-relevant parameters are constantly monitored and controlled.</p> <p>With minimal efforts, the basic unit can be upgraded with the accessories well known from our other AAS systems. For large sample throughputs, we recommend the use of our unique autosampler with intelligent online dilution.</p>	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
22	Amity Institute of Microbial Technology	BLOCK-E3, 4th Floor, Room No. 406	Research Lab	Gel Documentation System	Bio-Rad (XR+)	<p>The Molecular Imager Gel Doc XR system is a fast, easy-to-use, high-resolution gel imaging system. The system includes the easy-to-use, "capture and print" Quantity One® 1-D analysis software.</p> <ul style="list-style-type: none"> - Increase cloning efficiency and protein production by protecting DNA electrophoresis samples from UV exposure using the XcitaBlue™ Conversion Screen and blue light excitable stains such as GelGreen, SYBR®Safe, and SYBR® Green I - View protein gels stained with Coomassie Blue, silver stain, and other colorimetric gel stains using the White Light Conversion Screen - Maintain prior lab protocols as there is no loss in sensitivity compared to UV and ethidium bromide staining 	
23	Amity Institute of Microbial Technology	BLOCK-E3, 4th Floor, Room No. 401 A	M.sc Lab1	BOD Incubator Shaker	SNS-BIS-16	<p>Inner Chamber S.S. 304 & Outer chamber M.S. powder coated with Plexi glass inner door</p> <ul style="list-style-type: none"> • Variable speed from 20 RPM to 250 RPM • Digital display of speed with preset facility • Shaking amplitude 25 mm <p>Chamber Volume (Litres):180 Max shaking Capacity:9 litres Platform Size:18" x 20" External Dimensions :70 x 78 x 125 W x D x H (cm) Temperature Range (Accuracy):5°C to 60° C (±0.5°C)</p>	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
24	Amity Institute of Microbial Technology	G - Block Second Floor	Fermentor Lab	PCR	Eppendorf(Master cycler pro)	<p>Temperature control range :4-99°C</p> <p>Temperature control mode Fast, Standard Safe; all in gradient mode</p> <p>Heating technology of the block: Peltier Elements, Triple Circuit Technology</p> <p>Gradient range :1-20°C</p> <p>Gradient temperature range: 30-99°C</p> <p>Block homogeneity: 20-72°C < ±0.3°C, 90°C < ±0.4°C</p> <p>Control accuracy : ±0.2°C</p> <p>Heating rate : 4°C/s</p>	
25	Amity Institute of Microbial Technology	G - Block Second Floor	Fermentor Lab	Ultra Low temperature Freezer	New Brunswick (U410 PREMIUM)	<p>Capacity: 410 L, up to 240 boxes or 24,000 samples</p> <p>Temperature Range -10°C to -45°C, Programmable in 1°C Increments, at Ambient Temperature Up to 32°C</p> <p>Compartments & Shelving 5 Compartments with 4 Adjustable-Height Shelves</p>	
26	Amity Institute of Microbial Technology	G - Block Second Floor	Fermentor Lab	Lyophilizer	Scanvan (CoolSafe 55-4)	<p>Bench top</p> <p>4 lt capacity</p> <p>Temperature options include :- -55, -95, -100 and -110°C</p> <p>Built in drain and vacuum calve</p> <p>Digital display of temperature</p>	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
27	Amity Institute of Microbial Technology	G - Block Second Floor	Fermentor Lab	Centrifuge	Sartorius(3K30)	<p>Maximum Speed :100-30000 rpm selectable in steps of 1 rpm. High-speed refrigerated bench top centrifuge for gravitational fields up to more than $60.000 \times g$. Maintenance-free brushless drive motor. Free programming of all run parameters possible. Automatic rotor identification prevents the rotor from overspeeding. Efficient refrigerating machine for temperatures between -20°C and $+40^{\circ}\text{C}$, possibility of precooling the rotors during standstill.</p>	
28	Amity Institute of Microbial Technology	G - Block Second Floor	Fermentor Lab	Micropulser Electroporator	BioRad	<p>Outputs Waveform: decaying or truncated decaying exponential-decay with resistor capacitor time constant Voltage and current: 3,000 V peak into $>600\text{ W}$ load; limited at 100 A peak maximum Output voltage and pulse duration adjustment :Voltage adjustable in 200–3,000 V range with 10 V precision; 5 ms default or 1–4 ms with 0.1 ms precision. Input voltage : 100–120 V or 220–240 V Preset protocols :5 bacterial, 5 fungal Operating environment : $3.5\text{--}35^{\circ}\text{C}$</p>	




AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
1	AIB	J-3 G-01	Molecular Biotechnology	Incubator	Thermofisher (Heracell150i)	Disinfection Time:90°C/9 hr. CO2Concentration Range:0 to 20% CO2 Oxygen Control: 1-21% or 5-90% Humidity Delivery integral panless system Relative Humidity:to 95% Temperature Range (Metric):Ambient +3° to 55°C	
2	AIB	J-3 G-01	Molecular Biotechnology	Electroporator (Eporator)	Eppendorf	Power supply:100/240 V ±10%, 50/60 Hz Power consumption:20 W Time constant:5 ms (nominal) Pulse form Decaying exponential wave form with RC time constant of 5ms Pulse voltage:200-2,500 V Charging time: <10 s	
3	AIB	J-3 G-01	Molecular Biotechnology	Centrifuge	Eppendorf (5418 R)	Max. rcf 16,873 x g Max. speed 14,000 rpm Max. rotor capacity 18 x 1.5/2.0 mL No. of rotors 1 Acceleration time to max. speed 11 s Braking time from max. speed 12 s Noise level <55 dB(A) Dimensions in cm (W x D x H) 30 x 46 x 25 Weight without rotor 22 kg Power supply 230 V/50–60 Hz Power requirement max. 320 W Temperature settings 0 to +40°C	




AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
4	AIB	J-3 G-01	Molecular Biotechnology	CO2 Incubator	VISION SCIENTIFIC CO. LTD (VS-2050C)	<ul style="list-style-type: none"> • Air Jacket Direct Heating Type • Built in Embedded Computer ARM920T-266MHz CPU • LCD 5.6"Screen All Touch System • Excellent Stability and various function by Window CE5.0 • Built in Thermal Recorder in standard item • Humidity View Sensor Easy to manage by Self Test function • Easy to save and check the Data (Incubator→USB→Computer) • Data Backup (Convertible to Excel, Word, Memo) • Rounded Corner Shelves for pollution prevention • Multi task Alarm device 	
5	AIB	J-3 G-01	Molecular Biotechnology	Deep Freezer (-70° C)	Thermo Scientific (- 70°C Upright Ultra- Low Temperature Freezer)	-70°C Upright Ultra-Low Temperature Freezers, designed for daily sample protection and dependability.	
6	AIB	J-3 G-01	Molecular Biotechnology	Deep Freezer (-20° C)	Celfrost (-20° C)	Celfrost freezer Temperature Range: -20°C	




AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
7	AIB	J-3 G-01	Molecular Biotechnology	Deep Freezer (-4° C)	Celfrost (-4° C)	Celfrost freezer Temperature Range: -4°C	
8	AIB	J-3 G-02	Fermentor Lab	Fermentor	Hygene (Lark)	Fermenter vessel: Pyrex glass with 5 to 8 side necks (culture volumes from 35 ml to 6 l) Temperature control:special radiation heat source with gilded reflector 150 W, Regulation:from 5 °C over RT to 70 °C Measurement:from 0 to 99.9 C in 0.1 C steps Precision:0.2 C (0 to 60 °C) Sensor:Pt 100 incorporated in the pH sensor	
9	AIB	J-3 G-02	Fermentor Lab	Incubator Shaker	GeNei (SLM - INC- 0S - 250)	Speed:30-250 rpm Motion: Orbital Control: Feedback control System Temperature range: Above Ambient to 600 C Controller: Digital temperature controller PID type Accuracy:±/ 0.5 0C	




AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
10	AIB	J-3 G-02	Fermentor Lab	BOD Incubator	NISCO	Utilized to prepare Biochemical Oxygen Demand determinations and for preservation of chemicals, vaccines, and many more. Double walled with the inner chamber made of stainless steel and the outer made of mild steel which is duly powder coated. Temperature range:- 5oC to 50oC with accuracy ± 1oC. Size:10 Cubic Feet Shelves Adjustable 3 / 4 shelves The unit is fitted with a digital temperature controller and an air circulating blower to keep the temperature uniform inside the chamber.	
11	AIB	J-3 G-02	Fermentor Lab	Autoclave	EDUDAP	Vertical Autoclave Durable Easy to use	
12		J-3 G-03	Animal Biotechnology Lab	Fermentor	Bio-Age	In-Situ sterilizable stainless steel fermentor (culture Volume up to 7 L(Biospin -71, Regulatoin :5°C- 121° C ' filter: F15,,,,,,G1 filter with maximum supply pressure 10 bar(140psi)	

AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
13	AIB	J-3 G-19	Bio Process Engineering-I	Fermentor	Hygene (Lark)	<p>Fermenter vessel: Pyrex glass with 5 to 8 side necks (culture volumes from 35 ml to 6 l) Temperature control:special radiation heat source with gilded reflector 150 W, Regulation:from 5 °C over RT to 70 °C Measurement:from 0 to 99.9 C in 0.1 C steps Precision:0.2 C (0 to 60 °C) Sensor:Pt 100 incorporated in the pH sensor</p>	
14	AIB	J-3 G-19	Bio Process Engineering-I	Centrifuge	REMI (CPR 30)	Refrigerated Centrifuge designed for centrifugation of temperature sensitive material and find application in routine and research work	
15	AIB	J-3 G-19	Bio Process Engineering-I	Hot Air Oven	NISCO	Hot air oven for sterilization	



AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
16	AIB	J-3 G-04	Bio Chemical Engineering	Fermentor	Sartorius (B- Lite)	<p>Power supply: – 230 V (\pm 10%), 50 Hz, max. power consumption 10 A</p> <ul style="list-style-type: none"> – Potential equalisation <p>International protection rating: IP21</p> <p>Gases: – Gas supply pressure, 1.5 barg</p> <ul style="list-style-type: none"> – Dry, oil and dust-free – Hose barb for tubing, external dia. = 6 mm <p>Water:</p> <ul style="list-style-type: none"> – Water supply pressure, 2–8 barg – Flow rate up to 20 lpm – Temperature min. = 4°C – Discharge pressure-less – Hose barb for tubing, external dia. = 10 mm – Degree of hardness: 12 dH max 	
17	AIB	J-3 G-04	Bio Chemical Engineering	Inverted Microscope	Olympus (CKX41)	<p>The CKX41 is an inverted microscope suitable for regular cell observation including GFP and other fluorescence applications. The high-angle tilting head is ideal for simple visual checks, while advanced Universal Infinity System 2 (UIS2) optics produce outstanding images.</p> <p>Features:</p> <ul style="list-style-type: none"> Enhanced Cell Culture with Advanced UIS2 Optics Superior Optical Performance, High-clarity Relief Contrast Observation Vertical Slider Installation Avoids Interference with Manipulators Fluorescence Observation System Quick, Adjustment-free Specimen Observation Accessories 	
18	AIB	J-3 G-04	Bio Chemical Engineering	CO2 Incubator	Eppendorf (Galaxy® 170 S CO2 Incubator)	<p>Galaxy® 170 S high-capacity CO2 incubators can be conveniently placed on or under the bench or even double-stacked, making them ideal for a wide range of specialized applications. The 170 S is the standard model of the 170 series.</p> <ul style="list-style-type: none"> Sealed inner glass door Reliable IR CO₂ sensor RS-232 communication port 25 mm access ports Low gas consumption <p>Galaxy 170 S CO₂ incubators are high-capacity, 170 liter incubators that provide superior quality, outstanding performance, and intuitive operation</p>	




AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
19	AIB	J-3 G-09	Plant Biotechnology II	Orbital Shaker Incubator	NISCO	Temperature Range (°C / °F) : Amb.+5 to 80 [Amb.+9 to 176] Motion Type: Orbital or Reciprocating motion (Default : Orbital motion) Speed Range :(RPM) 10 to 300 (Stackable Top :10 to 250) Timer Run time(10sec ~ 999hr 59min 59sec)	
20	AIB	J-3 G-09	Plant Biotechnology II	Hot Air Oven	NISCO	Hot air oven for sterilization	
21	AIB	J-3 G-09	Plant Biotechnology II	Refrigerator	Samsung	Frost Free Double Door Refrigerator (Penta Cool) Double Door	



AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
22	AIB	J-3 G-10	Plant Tissue Culture Facility	Laminar Air flow		Horizontal Laminar Air Flow Bench	
23	AIB	J-3 G-11	Plant Biotechnology I	Autoclave	Scientific Systems, Delhi	Vertical Autoclave Durable Easy to use	
24	AIB	J-3 G-11	Plant Biotechnology I	Hot Air Oven	NISCO	Hot air oven for sterilization	




AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
25	AIB	J-3 G-11	Plant Biotechnology I	Orbital Shaker Incubator cum B.O.D. Incubator	Catton (NSW 256)	Temperature Range (°C / °F) : Amb.+5 to 80 [Amb.+9 to 176] Motion Type: Orbital	
26	AIB	J-3 G-11	Plant Biotechnology I	Laminar Flow		Horizontal Laminar Air Flow Bench Dual Chamber	
27	AIB	J-3 G-16	CIF-I	Ultracentrifuge	Beckman Coulter (Optima MAX-XP)	Set Speed:Actual rotor speed ± 50 rpm of set speed Set Temperature:0°C to 40°C in 1° increments Speed Range:5,000 to 150,000 rpm Temperature Control:± 2°C of set temperature User-Settable Programs: All user programs have up to 5 steps each, Ambient Temperature Range: 15 to 35°C ambient., Clearances Required:7.6 cm (3.0 in) both sides and rear; Time -- Actual Display: Indicates run time remaining Vacuum: Moisture-purging vacuum system User-Defined Programs: RPM or RCF user selectable Display:Full-color LCD touch screen Approximate Acceleration Time: 10 acceleration profiles Approximate Deceleration Time: 11 deceleration profiles Electrical Requirements:220/240 V, 50 Hz; 120 V, 50/60 Hz; 100 V, 50/60 Hz, g Force:1,019,000 x g (with MLA-130 rotor) Maximum Heat Dissipation into Room under Steady-State Conditions: 0.7 kW (2,400 BTU/hr), Refrigeration System:Solid state, thermoelectric temperature control system with forced air, no coolant, no CFCs/ODCs	




AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
28	AIB	J-3 G-16	CIF-I	Lyophilizer	BIOBASE (Scientz 12N)	<p>Vacuum freeze-drying technique, referred to as freeze-drying, also known as sublimation drying. Widely used drugs, biological products, chemical and food industries.</p> <p>Mainly used for the production of serum, plasma, vaccines, enzymes, antibiotics, hormones, etc.; Biochemical examination of drugs, immunology and bacteriology;</p> <p>long-term preservation of blood, bacteria, arteries, bones, skin, cornea, nerve tissue and various organs</p> <p>Characteristics</p> <ul style="list-style-type: none"> ● Accord with international standards of Green environmental friendly ● 7" True-color Touch Screen, Chinese English Bilingual Interface, display drying curve and history curve; ● U disk Can storage lyophilized data; ● Upload software can print curve; ● Embedded circuit design, 128 M FLASH, can save dozen times Lyophilized data; ● Large opening trap, no coil inside, with samples pre-freeze function ● Imported refrigeration compressor, low noise ● Cold trap and control panel were made by stainless steel, corrosion-resistant, easy to clean 	
29	AIB	J-3 G-16	CIF-I	Real-Time PCR System	Applied Biosystems (QuantStudio 3)	<p>The Applied Biosystems QuantStudio 3 Real-Time PCR System is designed for users who need an affordable, easy-to-use real-time PCR system that doesn't compromise performance and quality. The simplified Design and Analysis software is ideal for both first-time and experienced users</p> <p>Specifications:</p> <p>For Use With (Equipment): QuantStudio™</p> <p>Volume (Metric) Thermal Block Sample: 0.2mL</p> <p>Format: 96-well plate</p> <p>Shipping Condition: Room Temperature</p> <p>Product Line: QuantStudio™</p> <p>Block Format: Non-Interchangeable</p> <p>Display Type: Touch Screen</p> <p>Includes: Laptop Computer</p>	

AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
30	AIB	J-3 G-16	CIF-I	PCR (Thermal Cycler)	HiMedia (Prima-Duo™)	<p>The Prima-DUO™ Thermal Cycler delivers proven reliability combined with enhanced features to meet your today's and tomorrow's PCR needs.</p> <p>Features: 8" TFT color touch – screen with graphical display provides easy use for setting up and monitoring</p> <ul style="list-style-type: none"> <input type="checkbox"/> DNA Cloning <input type="checkbox"/> Genetic Engineering <input type="checkbox"/> Sequencing <input type="checkbox"/> DNA based 'phylogeny' <input type="checkbox"/> Hereditary diseases <input type="checkbox"/> Genetic ngerprints (forensic) <input type="checkbox"/> Diagnosis of 'infectious diseases' <p>Exceptional Values: Industry-leading reliability & performance Matchless Thermal Performance Precise, uniform heating and cooling assures superior reproducibility and highest quality results</p>	
31	AIB	J-3 SF-219	CIF-II	UV-Visible Spectrophotometer	LABMAN	<p>Spectral bandwidth :< 2nm Wavelength range :190 ~ 1100nm Wavelength accuracy :±0.3nm Wavelength repeatability :±0.1nm Photometric system :Double beam optics Photometric range Absorbance : -0.5~ 3.999Abs Transmittance : 0.0 ~ 300% Light source :50w halogen lamp deuterium lamp Built-in light source auto position adjustment Monochromator :Aberration corrected concave blazed holographic grating Detector :Silicone photodiode</p>	
32	AIB	J-3 G-16	CIF-I	BioSpectrometer	Eppendorf (basic)	<p>Absorbance measurement for one or more wavelengths, recording of wavelength scans from 200 nm to 830 nm (increment: 1 nm) Automatic evaluation and storage of measurement data with clear presentation of results Spectral graph to display sample purity with automatic ratio calculation Freely programmable applications with evaluation via factor, standard or standard series and freely programmable parameters Two-wavelength method with subtraction or division evaluation; Integrated application and results memory Guided software process to minimize errors Integrated self-test and calibration history Data transfer via USB interface, Ethernet or via e-mail and direct printout of results</p>	

AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
33	AIB	J-3 G-16	CIF-I	Cooling Centrifuge	Thermo Scientific (Sorvall ST8R)	<p>Secure, push-button Thermo Scientific™ Auto-Lock™ rotor exchange in as little as three seconds delivers trouble-free rotor installation and removal and clear chamber access for cleaning convenience.</p> <p>Biocontainment sealing options, including certified† Thermo Scientific™ ClickSeal™ lids offer glove-friendly, one-handed operation.</p> <p>Maximized swing-out capacity up to 8 x 50mL conical tubes, 24 x 5/7mL blood tubes, microplates and microtubes, all in one versatile centrifuge</p> <p>Fixed angle flexibility to spin 50mL conical tubes at over 12,000 x g or a wide range of microtubes at speeds up to 30,279 x g</p> <p>User-friendly performance:</p> <p>Low noise levels, including just 52 dBA at performance of 17,850rpm/30,279 x g (with Sorvall ST 8R centrifuge), to ensure a peaceful laboratory</p> <p>One-touch operation with pre-saved protocols</p> <p>Highly visible backlit display offers easy reading of parameters across the lab</p> <p>Glove- and detergent-friendly user interface</p> <p>Multilingual instructions offered in English, Dutch, French, German, Italian, Russian and Spanish</p>	
34	AIB	J-3 G-16	CIF-I	Micro Cooling Centrifuge	Thermo Scientific (Sorvall LEGEND MICRO 21R)	<p>Exceptional acceleration of up to 21,000 x g in as little as 12 seconds.</p> <p>Refrigerated versions offer cooling from room temperature to set temperature in as little as 9 minutes.</p> <p>Choose from 7 optional microcentrifuge rotors to find the ideal fit for your application:</p> <p>Outstanding corrosion resistance with lightweight engineered polymer rotors. Standard rotor runs 24 microcentrifuge tubes in a single row, from 1.5 to 2.0 mL tubes to mini-preps and spin columns.</p> <p>Ergonomic one-click rotor opening and closing, as well as transparent design for added safety and convenience with Thermo Scientific ClickSeal biocontainment lids.</p> <p>Eliminate the need for adapters with unique dual row rotor.</p> <p>Simplify operation with intuitive controls, easy-to-read displays and fast one-click centrifuge lid closure.</p> <p>Sleek, lightweight, space-saving design.</p> <p>Durable and easy to clean and maintain.</p> <p>Quiet performance promotes a safe, stress-free environment.</p> <p>Compliant with latest clinical and safety standards, including 08/70/EC L</p>	
35	AIB	J-3 G-18	Animal cell culture Facility	Deep Freezer (-80° C)	Thermo Scientific (-80°C Upright Ultra-Low Temperature Freezer)	<p>-70°C Upright Ultra-Low Temperature Freezers, designed for daily sample protection and dependability.</p>	




AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
36	AIB	J3 G- 17	Research Lab	Cooling Centrifuge	REMI (C-24 BL)	<p>Cooling centrifuge has a maximum speed of 6000 RPM at 10 tube of 15 ml total square body, with lid lock and speed control by analogue. Digital display of timer and the timer time has 0-60 minutes speed in digital display. Auto off lid open along with lid breaking system Power consumption: 500 watt</p>	
37	AIB	J-3 G-18	Animal Cell Culture Facility	CO2 Incubator	Eppendorf (Galaxy® 170 S CO2 Incubator)	<p>Galaxy® 170 S high-capacity CO2 incubators can be conveniently placed on or under the bench or even double-stacked, making them ideal for a wide range of specialized applications. The 170 S is the standard model of the 170 series.</p> <p>Sealed inner glass door Reliable IR CO₂ sensor RS-232 communication port 25 mm access ports Low gas consumption</p> <p>Galaxy 170 S CO₂ incubators are high-capacity, 170 liter incubators that provide superior quality, outstanding performance, and intuitive operation</p>	
38	AIB	J-3 G-18	Animal Cell Culture Facility	Inverted Microscope	OLYMPUS CKX53	<p>OPTICAL SYSTEM Infinity corrected plan and Phase optics with Uniformly centred, interchangeable & parfocal, Tropicalized anti-fungus treatment ensures image excellence for long periods in conditions favouring to fungus growth.</p> <p>OBJECTIVES LWD Plan Infinite 4X,40X LWD Plan Infinite Phase PH10X,PH20X</p> <p>EYEPIECES High-point, Extra wide-field eyepiece EW10x/22</p> <p>DIOPTER CORRECTION Dioptric adjustment available on the left eyepiece tube</p> <p>OBSERVATION HEAD Trinocular head inclined at 30 degree, Interpupillary distance 48mm - 75mm</p>	




AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
39	AIB	J-3 G-20	New Drug Discovery & Innovation Lab	Lyophilizer	Labconco (Freezone 2.5)	Collector Temperature: -50°C, -58°F Ice Holding Capacity: 2.5 L Options Included: PTFE-Coated Collector Plug Type: North America, 230 volt Style: Benchtop	
40	AIB	J-3 FF-103	Organic Chemistry&Molecul ar Bacteriology	HPLC(Analatical Basic Mod)	AgilentTechnology	Pump:Binary isocratic pump, Injector: Injector with a 20 µL fixed loop and a SPD-20A Prominence UV- visible diode Detector: UV-Visible detector system Large Scale Preparative System (Automated Scale-up SystemTrap) Wide Range of Use from Analysis to Large-Scale Fractionation	
41	AIB	J-3 FF-103	Organic Chemistry&Molecul ar Bacteriology	Cooling centrifuge	Eltek RC4100F	Max. Speed(rpm):12000 Max. RCF'g':37570 Max. Tube Size(ml):50 Max. Capacity(ml): 400 Lowest Temp.°C :-8	




AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
42	AIB	J-3 FF-103	Organic Chemistry&Molecular Bacteriology	Anaerobic Chamber	Whitley DG250	Maintain Anoxic condition & temperature	
43	AIB	J-3 FF-103	Organic Chemistry&Molecular Bacteriology	(-80 C)Chiller	Julabo	For Reaction only	
44	AIB	J-3 FF-104	Genomics, Systems Biology Host- Pathogen Interaction Lab	Incubator Shaker	NISCO	Temperature Range (°C / °F) :Amb.+5 to 80 [Amb.+9 to 176] Motion Type: Orbital or Reciprocating motion (Default : Orbital motion) Speed Range :(RPM) 10 to 300 (Stackable Top :10 to 250) Timer Run time(10sec ~ 999hr 59min 59sec)	

AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
45	AIB	J-3 FF-120	Antimycotic and Drug susceptibility (Research)	Bio Safety Cabinet(Class-2)	Relible Instruments (RIC-33G)	Bio Safety Cabinet frame of ply-board covered with sunmica from outside. Work bench top of stainless steel. Side and front door of work bench covered with acrylic. Motor & blower assembly to provide sufficient air pressure	
46	AIB	J-3 FF-120	Antimycotic and Drug susceptibility (Research)	UV-VIS Spectrophotometer	Ultra-3560	<p>Ultra-3560 UV-VIS Spectrophotometer</p> <p>Ultra-3560 uv-vis spectrophotometer utilizes high quality grating, which dramatically reduces straylight level, and improves test accuracy & linear range.</p> <ul style="list-style-type: none"> ○ Double beam design ○ Straylight below 0.03%T ○ 190-1100nm wavelength range ○ 4 options for spectral bandwidth selection ○ Reliable wavelength accuracy ○ Multiple built-in methods, supports operation via UV workstation ○ 7" TFT color screen WVGA(800×480), water-proofing keyboard design <p>Ultra-low straylight provides accurate result. Straylight less than 0.03%T on each specific bandwidth</p>	
47	AIB	J-3 FF-120	Antimycotic and Drug susceptibility (Research)	Thermal Cycler	HiMedia (ECO-96)	<p>Thermal Cycler delivers proven reliability</p> <ul style="list-style-type: none"> □ DNA Cloning □ Genetic Engineering □ Sequencing □ DNA based 'phylogeny' □ Hereditary diseases □ Genetic ngerprints (forensic) □ Diagnosis of 'infectious diseases' □ Industry-leading reliability & performance <p>Matchless Thermal Performance Precise, uniform heating and cooling assures superior reproducibility and highest quality results. Effortless, Intuitive Programming & Operation Powerful software is easy to learn and easy to use, even for new operators. Sleek and Small Design: Compact design and size optimizes available bench space.</p>	




AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
48	AIB	J-3 FF-120	Antimycotic and Drug susceptibility (Research)	Microscope	Magnus (MLX Plus Microscope)	<p>Features: Plan Infinity Optics with Field of view 20mm Parfocal and Centered Optics Optics with Multi-layer Coating & Anti-Fungus treated Choice of Halogen and LED Illumination Easy Access for Lamp Replacement Siedentopf head. Hard-Coated Stage Double Slide Holder. Inward Nosepiece Universal Power Supply</p> <p>Objective 4x, 10x, 40x, 100x Mechanical Stage: Co-axial low drive mechanical Stage (125mmx145mm) with traverse area of 50mmx76mm (+/-5mm) Fine Focus Range: 0.2 mm</p>	
49	AIB	J-3 FF-120	Antimycotic and Drug susceptibility (Research)	Orbital Shaking Incubator	REMI (CIS-24 Plus)	<p>Orbital Shaking Incubator is designed for precise temperature control and simultaneous shaking applications required in fermentations studies, enzyme reactions, life sciences, tissue culture and biotechnology, research labs. These chambers are available in standard & GMP versions.</p> <p>SALIENT FEATURES Brushless induction Motor with variable frequency drive suitable for continuous operations Step less variable frequency drive ensures gentle shaking start and maintains set speed Counter balanced mechanism for high stability in uneven load of different sized flasks Universal Shaking Platform to accommodate different sized assorted flasks Maximum shaking capacity – 9 Flasks x 2000 ml Powerful fan motor for forced air circulation to maintain uniform conditions inside chamber Machine filled CFC free PUF insulation to eliminate void pockets Unique design of thermal barrier for better energy efficiency</p>	
50	AIB	J-3 FF-120	Antimycotic and Drug susceptibility (Research)	Deep Freezer (-20° C)	Vestfrost	<p>Vestfrost freezer Temperature Range: -20°C Double Door</p>	



AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
51	AIB	J-3 FF-121	Pest Control Lab	Gas Chromatograph	Varian(430-GC)	<p>Operating temperatures: 10°C to 35°C. Operating humidity(relative):5% to 95%. Column Oven Dimensions: 23cm(w)x11cm(d)x28cm(h). Temperature range:ambient -55°C to 450°C Temperature program ramps/holds:7/8. Maximum temperature ramp rate: 100 °C /min for all voltages. Cool down rate: 450 °C to 50 °C in 5.2 minutes. Temperature set-point resolution: 1 °C. Injector :1177 Split/Splitless injector (S/SL).</p>	
52	AIB	J-3 FF-121	Pest Control Lab	Insect Traker	VJ Instruments (VJITS-01)	<p>Insect Traker: Video tracking system for research in behavioral analysis of Insects HD Quality (Sony Lens)</p>	
53	AIB	J-3 FF-121	Pest Control Lab	Cooling Centrifuge	Remi(C-24BL)	<p>Max. Speed(rpm):20000 Max. RCF'g':37570 Max. Tube Size(ml):100 Max. Capacity(ml): 400 Lowest Temp.°C :-8</p>	
54	AIB	J-3 SF-202	Molecular Biology II	Cooling Centrifuge	Remi(C-24BL)	<p>Max. Speed(rpm):20000 Max. RCF'g':37570 Max. Tube Size(ml):100 Max. Capacity(ml): 400 Lowest Temp.°C :-8</p>	


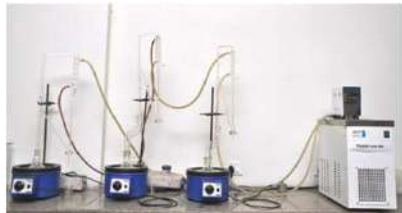

AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
55	AIB	J-3 SF-209	Translational Protein Lab	Lyophilizer	Labconco (Freezone 2.5)	Collector Temperature: -50°C, -58°F Ice Holding Capacity: 2.5 L Options Included: PTFE-Coated Collector Plug Type: North America, 230 volt Style: Benchtop	
56	AIB	J-3 SF-209	Translational Protein Lab	Microplate Spectrophotometer	Thermo Scientific (Multiskan SkyHigh)	Thermo Scientific Multiskan SkyHigh Microplate Spectrophotometer is a UV/Vis microplate spectrophotometer designed to be convenient and easy to use for virtually any photometric research application, especially DNA, RNA, and protein analysis, as well as turbidity measurements Reading Options: 6-48, 96 and 384 well plates, Thermo Scientific μ Drop Plates Monochromator-based optical system for free selection of wavelengths from 200 nm to 1000 nm Compatible with 6-48, 96- and 384-well microplates or cuvettes with maximum plate height of 19.5 mm including possible lid Reads μ Drop™ and μ Drop Duo Plates for micro-volume DNA/RNA and protein analysis Separate optimized measurement modes for absorption and turbidimetric measurements Allows kinetic, spectral, and endpoint measurements for a variety of applications Fast operation: full spectrum of a well is done in less than 10 seconds; typical DNA spectrum can be measured in less than three seconds and a full 96-well microplate is read with one wavelength in 6 seconds	
57	AIB	J-3 SF-209	Translational Protein Lab	Fume Hood	Laczenie Biosciences	Excellent Gas removal efficiencies Durable & Compact	




AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
58	AIB	J-3 SF-209	Translational Protein Lab	Peptide Shaker	Scientific Systems, Delhi	Peptide Shaker	
59	AIB	J-3 SF-209	Translational Protein Lab	Rotary Evaporator	Buchi (R-100)	<p>The Rotavapor® R-100 is an entry-level rotary evaporator that meets the essential needs in economical evaporation and is developed according to BUCHI's high-quality standards.</p> <p>Evaporating flask size: 50 - 4000 mL Lift mechanism: Manual Temperature range: 20 - 95 °C</p>	
60	AIB	J-3 SF-209	Translational Protein Lab	Deep Freezer (-4° C)	Celfrost (-4° C)	Celfrost freezer Temperature Range: -4°C	




AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
61	AIB	J-3 SF-209	Translational Protein Lab	Hot Air Oven	Thermotech (COMMEKTA - II)	Hot air oven for sterilization	
62	AIB	J-3 SF-210	Plant Secondary Metabolite Technology Lab	Freezing Circulator (Cooling/Heating)	Genaxy Scientific(IC 201J)	Clevenger apparatus with circulator. Collection of essential oil. To provide constant temperature at regular time	
63	AIB	J-3 SF-210	Plant Secondary Metabolite Technology Lab	Chest Freezer (-20° C)	Blue Star	Temperature Range: -20°C ~ +8°C No. of Lid: 01	

AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
64	AIB	J-3 SF-211	Cellular and Molecular cytogenetics	DNA Thermal Cycler	Applied Biosystem (2720 Thermal Cycler)	Personal-sized 96-well thermal cycler Ideal for both basic PCR and cycle-sequencing applications using 0.2 mL reaction tubes or 96-well reaction plates.	
65	AIB	J-3 SF-211	Cellular and Molecular cytogenetics	Deep Freezer(-80 C)	Skadi Green Line(R404)	Capacity:484 l Sample throughput holes 3 built-in access ports are standard (18 mm inner diam.) multi-position key switch: on, off and set; Bright, easy to read, digital display; Readout option in 1 and 0.1 °C increments; Adjustable temperature set point; Clean filter alarm; door alarm (also for CO2 backup System); remote alarm (NO/NC/COM); RS232 / RS485 port (free software to download); Service friendly plug & play detachable cable housing;	
66	AIB	J-3 SF-211	Cellular and Molecular cytogenetics	Refrigerated Bath Circulators	Lab Companion (Model RW-0525G)	The Lab Companion Refrigerated Bath Circulators model RW-0525G has a capacity of 4L-6L and has a temperature range of Amb +5°C - 40°C with an accuracy of +/- 5°C at -10°C and uniformity +/- 0.1°C at -10°C. Its dimensions 302 x 438 x 690 mm externally and requires a power source of 230VAC 50/60Hz 6.7A or 120VAC 60Hz 12.6A.	




AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
67	AIB	J-3 SF-211	Cellular and Molecular cytogenetics	Hybridization Oven Shaker		Rotisserie/rocker speed: 4-20rpm Temperature range: Amb. +5°-80°C Temperature control: Microprocessor	
68	AIB	J-3 SF-211	Cellular and Molecular cytogenetics	Orbital Shaking Incubator	REMI (CIS 24 BL)	Chamber Volume (Litres):180 Max shaking Capacity:9 litres Platform Size: 18" x 20" External Dimensions W x D x H (cm): 70 x 78 x 125 Temperature:5°C to 60° C (±0.5°C) Range (Accuracy):VS-02 Supply: 220-240 Votts 50 Hz Single Phase	
69	AIB	J-3 SF-211	Cellular and Molecular cytogenetics	Deep Freezer(-60° C)	Celfrost	Temperature Range: -60°C No. of Lid: 01	




AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
70	AIB	J-3 SF-211	Cellular and Molecular cytogenetics	Centrifuge	Eppendorf (5804 R)	<p>Three centrifuges in one: a high-capacity, general-purpose centrifuge for cell harvesting; a high-speed centrifuge for separating cell lysates; and a microcentrifuge for DNA precipitations. It allows for molecular applications in tubes up to 250 mL and offers additional wing-bucket and fixed-angle rotors as well as deepwell plate capacity for increased versatility.</p> <p>Features and Benefits</p> <p>Max. capacity: 4 × 250 mL/2 × 5 MTP, Swing-bucket rotors and adapters accommodate tubes and bottles from 0.2 mL to 250 mL</p> <p>Plate rotor for centrifugation of all types of MTP, PCR, cell culture, or Deepwell Plates, Fixed-angle rotors for high-speed applications in tubes from 0.2mL to 85mL</p> <p>High centrifugation speed of up to 20,913 × g (14,000 rpm)</p> <p>Centrifuge lid with soft-touch lid closure, Low access height of 29 cm for easy loading and unloading of samples, Quiet operation to improve your work environment, Compact footprint saves valuable bench space, Automatic rotor recognition and imbalance detection for maximum operational safety</p>	
71	AIB	J-3 SF-211	Cellular and Molecular cytogenetics	Centrifuge	REMI (R- 4C DX)	<p>R-4C Compact model is designed for routine work</p> <p>Digital speed indicator and 0-60 minute digital countdown timer</p> <p>High Speed</p> <p>Type Of Head: Swing Out</p>	
72	AIB	J-3 SF-211	Cellular and Molecular cytogenetics	Gel Documentation System	Bio-Rad (XR+)	<p>The Molecular Imager Gel Doc XR system is a fast, easy-to-use, high-resolution gel imaging system. The system includes the easy-to-use, "capture and print" Quantity One® 1-D analysis software.</p> <ul style="list-style-type: none"> - Increase cloning efficiency and protein production by protecting DNA electrophoresis samples from UV exposure using the XcitaBlue™ Conversion Screen and blue light excitable stains such as GelGreen, SYBR®Safe, and SYBR® Green I - View protein gels stained with Coomassie Blue, silver stain, and other colorimetric gel stains using the White Light Conversion Screen - Maintain prior lab protocols as there is no loss in sensitivity compared to UV and ethidium bromide staining 	




AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
73	AIB	J-3 SF-211	Cellular and Molecular cytogenetics	Incubator Shaker	Eppendorf (New Brunswick™ Excella E24/E24R)	Refrigerated, orbit diameter 1.9 cm (3/4 in.), AC/DC input 120 V, 60 Hz, with universal platform	
74	AIB	J-3 SF-211	Cellular and Molecular cytogenetics	Microscope	Olumpus (CX-41)	<p>The Olympus CX41 is a brightfield, phase contrast microscope with polarized light, and darkfield capabilities. The high-performing brightness and clarity are powered by the UIS optics infinity system and plan objectives with terrific image flatness. The quintuple revolving nosepiece is inward-facing allows for a broad range of magnifications. This useful microscope is also easy to move where it's needed with convenient hand grips. Various accessories, condensers, and objectives can be swapped out to expand the observation capabilities for a versatile workhorse in the lab.</p> <p>The Olympus CX41 Microscope has an easily adjusted stage, moveable with one finger, and features unrestricted access to specimens that can be exchanged quickly and easily. The adjustable tilting binocular tube and easy-to-access controls are ergonomically designed, with a course refinement wheel of 25 mm, and 36.8mm per rotation. The renowned UIS2 plan-corrected objectives result in outstanding flat images. Olympus digital camera combined with software packages to allow efficient documentation, analysis, and reporting.</p>	
75	AIB	J-3 SF-211	Cellular and Molecular cytogenetics	Microscope	Olumpus (CX-31)	<p>Illumination: Built-in transmitted Koehler illuminator 6V30W halogen bulb. 1000-120V/220-240V~0.85/0.45A 50/60Hz</p> <p>Observation tube: Binocular/Tilting binocular/Trinocular</p> <p>Nosepiece: Fixed quadruple nosepiece with inward tilt</p> <p>Focusing: Stage height movement by roller guide (rack & pinion) Stroke per rotation:36.8mm. Full stroke rotation: 25mm. Tension adjustment on coarse focus adjustment knob. Upper limit stopped by simplified per-focusing dial</p>	

AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
76	AIB	J-3 SF-214	Structural Biology Lab	UV Visible Spectrophotometer with Thermal Melting Programmer (UV- 1800)	Shimadzu	<p>Buffer : 100mM Sodium Phosphate, 1M NaCl, 0.5mM EDTA, pH7.0 Wavelength : 260nm, 320nm Temperature Range : 0 to 95°C Ramp Rate : 1°C/min Sampling Interbal : 0.5°C Waiting Time : 30sec Post-Process Annealing : (95°C, 2min)</p>	
77	AIB	J-3 SF-214	Structural Biology Lab	PCR with E Gel imager(Gel Doc System)	Life Technologies	<p>Dimensions (W x D x H):Hood (20.3 x 28.4 x 36.5 cm) Base :(21.4 x 30.4 x 11.9 cm) Viewing dimensions (W x D):12 x 15 cm Excitation light source :UV light–312 nm Blue light–470 nm Power:110 or 220 VAC; 50–60 Hz Camera Type:CMOS Gradation:16-bit (65,536 gray levels) Resolution:1280 (H) x 1024 (V); 1.3 megapixels Dynamic range:3.8 orders of magnitude Exposure time:0.124 sec to 1 min Optics: Super bright lens F/1.4 fixed lens Optional: 16 mm Field of view:11 x 14 cm for 16 mm lens Emission filter:Orange filter (ethidium bromide and SYBR® Safe DNA Gel Stain) Green filter (Fluorescein, SYBR® Gold, SYBR® Green) Red filter (Qdot® 625) Software:Image capture GelCapture™ Acquisition Software 1D image analysis:GelQuant™ Express Analysis Software</p>	
78	AIB	J-3 SF-214	Structural Biology Lab	PCR	Eppendorf (Mastecycler Nexus Gradient Thermal Cycler)	<p>Mastecycler Nexus Gradient Thermal Cycler 1-20°C temperature control range Gradient temperature range of 30-99°C Features an aluminum thermal block 96x 0.2 mL PCR tubes or 77x 0.5 mL PCR tubes or 1x 96 well PCR plate capacity 4-99°C temperature control range</p>	

AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
79	AIB	J-3 SF-214	Structural Biology Lab	Spectrofluorometer	JASCO (FP-8300)	<p>FP-8350 Spectrofluorometer, Sophisticated optical system with additional features for the broadest range of applications</p> <p>The FP-8350 is an extremely sensitive spectrofluorometer that can be used in the broadest range of applications: biological, environmental, teaching labs, and core facilities. Many features make this a simple-to-use instrument; automatic cut-off filters (included as standard) eliminate peaks due to second-order scatter, giving more confidence in artifact-free spectral measurement. Auto-Gain and Auto-SCS optimize the S/N for samples with large differences in concentration and fluorescence intensity, offering a wide dynamic range. This reduces the need for manual intervention of adjusting spectral band and sensitivity settings for on-scale measurement.</p> <p>High sensitivity S/N 8000:1 typical High resolution with SBW to 1.0 nm Wavelength range: 200 to 750 nm (900 nm optional)</p>	
80	AIB	J-3 SF-214	Structural Biology Lab	Chest Freezer (-20° C)	Blue Star	<p>Temperature Range: --20° C No. of Lid: 01</p>	
81	AIB	J-3 SF-215	Bioremediation Lab	Orbital Shaking Incubator	REMI (CIS-24 Plus)	<p>Orbital Shaking Incubator is designed for precise temperature control and simultaneous shaking applications required in fermentations studies, enzyme reaction s, life sciences, tissue culture and biotechnology, research labs. These chambers are available in standard & GMP versions.</p> <p>SALIENT FEATURES</p> <p>Brushless induction Motor with variable frequency drive suitable for continuous operations, Step less variable frequency drive ensures gentle shaking start and maintains set speed</p> <p>Counter balanced mechanism for high stability in uneven load of different sized flasks, Universal Shaking Platform to accommodate different sized assorted flasks, Maximum shaking capacity – 9 Flasks x 2000 ml, Powerful fan motor for forced air circulation to maintain uniform conditions inside chamber, Machine filled CFC free PUF insulation to eliminate void pockets</p> <p>Unique design of thermal barrier for better energy efficiency</p> <p>Heating by long SS tubular heaters, Additional tray to store samples, Chamber calibration port on side, Hermetically sealed Compressor with CFC free refrigerant, Microprocessor controller with 4” LCD display for display of shaking speed & temperature, 9 programs memory, High temperature safety cut off & alarms for high / low set temperature, Electrical circuit breaker, Time delay for compressor switch on, Overload cut off relay for compressor</p>	



AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
82	AIB	J-3 SF-215	Bioremediation Lab	Centrifuge	REMI (R-24)	REMI R-24 RESEARCH CENTRIFUGE Size/Dimension: 400X500X455 Speed: 17300 Capacity: 400	
83	AIB	J-3 SF-215	Bioremediation Lab	COD Digestion Apparatus	Relitech (RT)	C.O.D. Digester: Power efficient Accurate result Elevated durability Optimum performance	
84	AIB	J-3 SF-215	Bioremediation Lab	Ultra Sonicator	LABMAN (LMUC-6)	SALIENT FEATURES <ul style="list-style-type: none"> • Continuous Self Tuning Circuitry For Any change In Workload, Liquid Level And Bath Temp. • Uniform Cavitations Through Out The Tank • Separate Oscillator Eliminates Damage To Generator In Case of Failure Of Transducers • Using 40 Khz Frequency For Effective Cleaning With Low Noise • Designed For Complete Cleaning Of Small and Large Components Without Dismantling, • Inner tank and Outer body made of Stainless Steel Tank Size: 300X155X150mm Basket capacity: 6 Ltr Ultrasonic Power: 150W	




AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
85	AIB	J-3 SF-215	Bioremediation Lab	Soxhlet Extraction Unit	EDUDAP	Soxhlet Extraction Unit High quality	
86	AIB	J-3 SF-215	Bioremediation Lab	Autoclave	EDUDAP	Vertical Autoclave Durable Easy to use	
87	AIB	J-3 SF-215	Bioremediation Lab	Hot Air Oven		Temperature Range (°C / °F) :Amb.+5 to 80 [Amb.+9 to 176] Motion Type: Orbital or Reciprocating motion (Default : Orbital motion)	




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S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
88	AIB	J-3 SF-216	Nano Theranostic Lab	Centrifuge	Eppendorf (5804 R)	<p>Three centrifuges in one: a high-capacity, general-purpose centrifuge for cell harvesting; a high-speed centrifuge for separating cell lysates; and a microcentrifuge for DNA precipitations. It allows for molecular applications in tubes up to 250 mL and offers additional wing-bucket and fixed-angle rotors as well as deepwell plate capacity for increased versatility.</p> <p>Features and Benefits</p> <p>Max. capacity: 4 × 250 mL/2 × 5 MTP, Swing-bucket rotors and adapters accommodate tubes and bottles from 0.2 mL to 250 mL</p> <p>Plate rotor for centrifugation of all types of MTP, PCR, cell culture, or Deepwell Plates, Fixed-angle rotors for high-speed applications in tubes from 0.2mL to 85mL</p> <p>High centrifugation speed of up to 20,913 × g (14,000 rpm)</p> <p>Centrifuge lid with soft-touch lid closure, Low access height of 29 cm for easy loading and unloading of samples, Quiet operation to improve your work environment, Compact footprint saves valuable bench space, Automatic rotor recognition and imbalance detection for maximum operational safety</p>	
89	AIB	J-3 SF-216	Nano Theranostic Lab	Ratio Beam Spectrophotometer	HITACHI (U-5100)	<p>Hitachi's U-5100 UV-Visible Spectrophotometer is ECO-FRIENDLY & CLEAN. The Model U-5100 delivers a compact, lightweight package with remarkable power savings and a long life for its light source.</p> <p>Optics: Seya-Namioka mount monochromator, ratio beam</p> <p>Wavelength range: 190 to 1,100 nm</p> <p>Spectral bandpass: 5 nm</p> <p>Light source: Xenon(Xe) flash lamp</p> <p>Display: LED with backlight</p> <p>120 mm × 90 m, 320dot × 240dot</p> <p>Cell: 6 cell turret(Automatic) (Single cell holder is optional)</p> <p>Size (main unit): 355 (W) × 425 (D) × 235 (H) mm</p> <p>Weight (main unit): 13 kg</p> <p>Power supply/Power consumption: 100, 115, 220, 230 or 240 V, 50/60 Hz 60 VA</p>	




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S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
90	AIB	J-3 SF-216	Nano Theranostic Lab	Ultrasonic Processor with Ultrasonic Cell Counter Noise Isolating Chamber	MRC (SONIC-650M)	<p>Working frequency: 20-25KHz frequency automatic tracking Timing: 0-99H59M59S (can be set) Working mode: Pulsed, Pulse: 0.1-99.9s adjustable (interval/working) Temperature control Control samples' temperature (0-100) Alarm Fault, temperature, time, Input method: touch screen control, 4.3 inch TFT, Display content : Temperature, power, time, etc., Protective device Program automatic error correction, overload, over temperature protection display, Storing data: 20 groups, password: Have user password protection, Standard configuration: Ultrasonic generator (host) one set Sealed transducers: + 6MM horn one set Φ6mm (process capacity 10ml-100ml)</p>	
91	AIB	J-3 SF-216	Nano Theranostic Lab	Orbital Shaker Incubator	NISCO	<p>Temperature Range (°C / °F) :Amb.+5 to 80 [Amb.+9 to 176] Motion Type: Orbital or Reciprocating motion (Default : Orbital motion) Speed Range :(RPM) 10 to 300 (Stackable Top :10 to 250) Timer Run time(10sec ~ 999hr 59min 59sec)</p>	
92	AIB	J-3 SF-216	Nano Theranostic Lab	Vertical Laminar Hood	EDU DAP	<p>Hepa filter air flow vertically from the top of the hood downward over the work surface. Sterile , Practicle free zone around the work.Prevent contamination of bcell culture samples (Primary & Secondary)</p>	



AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
93	AIB	J-3 SF-216	Nano Theranostic Lab	CO2 Incubator	ESCO	<p>Portable Mini Co2 Incubator: Smallest and most economical incubator for applications requiring CO2 gas control. Its small footprint makes the incubator ideal for use inside of biological safety cabinets, isolating sensitive cultures or for any laboratory simply trying to conserve bench space. With a thick layer of high efficiency insulation surrounding the chamber, the incubator is also ideal for transportation of cells. Once power has been disconnected, the incubator maintains temperature levels within 10% of the set parameter for up to 1 hour.</p>	
94	AIB	J-3 SF-216	Nano Theranostic Lab	Water bath Incubator Shaker	Micro Scientific works (MAC)	<p>Heating Load 2.5 KW (2.0 KW + 0.5 KW) Temperature Range Amb. +5°C to 100°C Controller Microprocessor based PID Digital Temperature Indicator-cum-Controller Microprocessor based Digital Temperature Indicator-cum-Controller with Automatic Digital Minute Timer Display: Digital LED with set value (SV) & process value (PV) Temperature Accuracy: ±5°C Temperature Sensor RTD: (Pt-100) Shaking Speed: 40 to 180 cycles/min</p>	
95	AIB	J-3 SF-217	Biosensor & Biomaterials Lab	Refrigerated Centrifuge	Eltec (RC 4815S)	<p>Max. Speed RPM 16000 Max. RCF xg 17600 Max. Tube Size ml 5 Max. Capacity ml 48 Width mm 320 Depth mm 410 Height mm 290 Weight Kg 16.5 Connected Load kVA 0.30</p>	


AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
96	AIB	J-3 SF-218	Therapeutic & Molecular Dignostic Lab-II	Lyophilizer	Delonix	<p>Vacuum freeze-drying technique, referred to as freeze-drying, also known as sublimation drying. Widely used drugs, biological products, chemical and food industries.</p> <p>Mainly used for the production of serum, plasma, vaccines, enzymes, antibiotics, hormones, etc.; Biochemical examination of drugs, immunology and bacteriology;</p> <p>long-term preservation of blood, bacteria, arteries, bones, skin, cornea, nerve tissue and various organs</p> <p>Characteristics</p> <ul style="list-style-type: none"> ● Accord with international standards of Green environmental friendly ● 7" True-color Touch Screen, Chinese English Bilingual Interface, display drying curve and history curve; ● U disk Can storage lyophilized data; ● Upload software can print curve; ● Embedded circuit design, 128 M FLASH, can save dozen times Lyophilized data; ● Large opening trap, no coil inside, with samples pre-freeze function ● Imported refrigeration compressor, low noise ● Cold trap and control panel were made by stainless steel, corrosion-resistant, easy to clean 	
97	AIB	J-3 SF-218	Therapeutic & Molecular Dignostic Lab-II	Biosafety Hood	Quest	Biosafety cabinet (B2 Type) Size-3X2X2 ft Inner chamber SS304	
98	AIB	J-3 SF-218	Therapeutic & Molecular Dignostic Lab-II	CO2 Incubator	Benchmark Scientific (MINI CELL)	<p>Portable Mini Co2 Incubator:</p> <p>Smallest and most economical incubator for applications requiring CO2 gas control. Its small footprint makes the incubator ideal for use inside of biological safety cabinets, isolating sensitive cultures or for any laboratory simply trying to conserve bench space. With a thick layer of high efficiency insulation surrounding the chamber, the incubator is also ideal for transportation of cells. Once power has been disconnected, the incubator maintains temperature levels within 10% of the set parameter for up to 1 hour.</p>	




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S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
99	AIB	J-3 SF-218	Therapeutic & Molecular Dignostic Lab-II	Inverted Microscope	Magnus (INVI)	<p>OPTICAL SYSTEM Infinity corrected plan and Phase optics with Uniformly centred, interchangeable & parfocal, Tropicalized anti-fungus treatment ensures image excellence for long periods in conditions favouring to fungus growth.</p> <p>OBJECTIVES LWD Plan Infinite 4X,40X LWD Plan Infinite Phase PH10X,PH20X</p> <p>EYEPIECES High-point, Extra wide-field eyepiece EW10x/22</p> <p>DIOPTER CORRECTION Dioptric adjustment available on the left eyepiece tube</p> <p>OBSERVATION HEAD Trinocular head inclined at 30 degree, Interpupillary distance 48mm - 75mm</p>	
100	AIB	J-3 SF-218	Therapeutic & Molecular Dignostic Lab-II	Micro Centrifuge	REMI (R-4C)	<p>R-4C Compact model is designed for routine work Digital speed indicator and 0-60 minute digital countdown timer Speed: 4400 Rpm Type Of Head: Swing Out Capacity: 200 MI</p>	
101	AIB	J-3 SF-218	Therapeutic & Molecular Dignostic Lab-II	PCR (Thermal Cycler)	HIMEDIA (PRIMA-96)	<p>DNA Cloning <input type="checkbox"/> Genetic Engineering <input type="checkbox"/> Sequencing <input type="checkbox"/> DNA based 'phylogeny' <input type="checkbox"/> Hereditary diseases <input type="checkbox"/> Genetic fingerprints (forensic) <input type="checkbox"/> Diagnosis of 'infectious</p>	




AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
102	AIB	J-3 SF-219	CIF-II	UV-Visible Spectrophotometer	LABMAN	<p>Spectral bandwidth :< 2nm Wavelength range :190 ~ 1100nm Wavelength accuracy :±0.3nm Wavelength repeatability :±0.1nm Photometric system :Double beam optics Photometric range Absorbance : -0.5~ 3.999Abs Transmittance : 0.0 ~ 300% Light source :50w halogen lamp deuterium lamp Built-in light source auto position adjustment Monochromator :Aberration corrected concave blazed holographic grating Detector :Silicone photodiode</p>	
103	AIB	J-3 SF-219	CIF-II	Inverted Microscope	Magnus	<p>Compact, Ergonomic Inverted Microscope for Cell Culture With improved image quality and ergonomics, the Olympus CKX53 inverted microscope delivers stable performance and a comfortable workflow for a variety of cell culture needs, including live cell observation, cell sampling and handling, image capture, and fluorescence observation.</p>	
104	AIB	J-3 SF-219	CIF-II	Thermo Circulator	LABTECH	<p>Immersion Bath Circular o Economy and Durable general purpose water baths are ideal for industrial pharmaceutical, clinical and biomedical use. O Precision Analog Controller maintain water temperature from ambient +5°C to 99°C with ± 3.0°C uniformity O Seamless Stainless Steel corrosion resistant (SUS304) bath O Over Temperature Protection ensure user safety o Perforated Sample Tray protects heater and sensor from unexpected damages</p>	

AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
105	AIB	J-3 SF-219	CIF-II	MicroPulser	BIO-RAD	<p>The MicroPulser is a simple yet versatile instrument that enables safe and reproducible transformation of bacteria, yeast, and other microorganisms. Transformation efficiencies much higher than those obtained with chemical methods can be achieved.</p> <p>Key Features One-button pulse delivery, attached cuvette chamber, and rapid charge time for fast sample handling Preset, optimized programs for commonly studied bacteria and fungi allow rapid program selection Arc quenching (ARQ) system significantly reduces arcing, protecting against loss of valuable samples Broad range of parameters for manual optimization. Manual programming allows voltage to be selected in a 200–3,000 V range with 10 V precision and allows pulse width to be selected in a 1.0–4.0 ms range with 0.1 ms precision High-voltage 3,000 V capability yields improved efficiency in larger-volume cuvettes Compact, space-saving design Audible and visible pulse indicators Time constant and actual volts displayed to monitor reproducibility</p>	
106	AIB	J-3 SF-219	CIF-II	PCR	Eppendorf (Vapo Protect)	<p>Fast speeds, high precision, easy usage and absolute reliability united in a flexible concept</p>	
107	AIB	J-3 SF-219	CIF-II	DNR Bio Imaging System	DNR (MINILUMI)	<p>Quality imaging for wide range of applications Advanced resolution: High-quality images with precise sample separation Range of illumination options: Enables epi and Trans UV, 8-filter wheel Compatible with the range of Qdot applications and all UV excited fluorophores Simple operation: One-click image capturing Semi-motorized lens: Zoom, iris, and focus Real-time image viewing and analysis: Easy to use with fast results Smart dark chamber technology with UV protection mechanism UV source – 312 nm (optional 254nm, 365nm) Signal to noise ratio: >55 dB</p>	

AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
108	AIB	J-3 219	CIF-II	HPLC	UFLC Shimadzu(LCLC- 6AD)	<p>Pump: Binary isocratic pump, Injector: Injector with a 20 µL fixed loop and a SPD-20A Prominence UV-visible diode Detector: UV-Visible detector system Large Scale Preparative System (Automated Scale-up SystemTrap) Wide Range of Use from Analysis to Large-Scale Fractionation</p>	
109	AIB	J-3 SF-219	CIF-II	BOD Incubator	NISCO	<p>Utilized to prepare Biochemical Oxygen Demand determinations and for preservation of chemicals, vaccines, and many more. Double walled with the inner chamber made of stainless steel and the outer made of mild steel which is duly powder coated. Temperature range:- 5oC to 50oC with accuracy ± 1oC. Size:10 Cubic Feet Shelves Adjustable 3 / 4 shelves The unit is fitted with a digital temperature controller and an air circulating blower to keep the temperature uniform inside the chamber.</p>	
110	AIB	J-3 TF-301	Algal Biotechnology	Rotary Evaporator	Buchi(B-4911/R- 210)	<p>Bath Capacity:4L Temperature Range:20°to 100°C Vacuum Controller V-850 for vacuum regulation to a specified setpoint Data transfer via USB interface Timer function for process interruption after a set time Library of 43 predetermined solvents Rotary evaporator with rotation control knob Automatic lift</p>	




AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
111	AIB	J-3 TF-301	Algal Biotechnology	Orbital Shaking Incubator	REMI (CIS 24 BL)	<p>Chamber Volume (Litres):180 Max shaking Capacity:9 litres Platform Size: 18" x 20" External Dimensions W x D x H (cm): 70 x 78 x 125 Temperature:5°C to 60° C (±0.5°C) Range (Accuracy):VS-02 Supply: 220-240 Votts 50 Hz Single Phase</p>	
112	AIB	J-3 TF-301	Algal Biotechnology	Centrifuge	Eppendorf (5810 R)	<p>The versatile centrifuge has a capacity of maximum 4 x 750 mL and reaches a maximum of 20913 x g/14000 rpm. The versatility is reflected in the available rotor options.</p> <ul style="list-style-type: none"> • Micro test tubes (0.2 mL to 5.0 mL) • PCR strips • Microtainers • Spin columns • Cryogenic tubes • Conical tubes (15 mU50 mL) • Bottles (175 mL to 750 mL) • Various tubes (3 mL to 120 mL) • Microplates • PCR plates • Deepwell plates (max. height of 29 mm) • Slides (with CombiSlide adapter) • Cell-culture flasks 	
113	AIB	J-3 TF-301	Algal Biotechnology	Microplate Reader	BioTek Instruments (Synergy H1 Hybrid Multi-Mode Reader)	<p>BioTek Synergy H1 is a modular multimode microplate reader, with monochromator-based optics and filter-based optics. Synergy H1 offers continuously variable bandwidth monochromators for fluorescence excitation and emission wavelength selection. Fluorescence bandwidth can be set between 9 and 50 nm, in 1 nm increments, allowing users to fully optimize reader settings to drive the best assay performance compared to fixed bandwidth systems.</p> <p>Hybrid plate reader: Flexibility and performance, Upgradable to meet future application needs Variable bandwidth for sensitivity and specificity, Automated z-focus: best performance with all plate types, Extended dynamic range, Environmental controls for cell-based assays, Dual syringe injectors with specialized tips, Micro-volume analysis with Take3 plate</p>	

AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
114	AIB	J-3 TF-301	Algal Biotechnology	Centrifuge	REMI (R 8C Plus)	Laboratory Centrifuge suitable for routine sample analysis Speed: 6000 RPM RCF: 5070 "g"(TM) Capacity: 400 ml Digital Timer Range: 0-99 Min.	
115	AIB	J-3 TF-301	Algal Biotechnology	Cell Counter	Count Star Bio Marine	Integrating advanced optical imaging technology and intelligent image recognition technology, Countstar® BioMarine Automated Counter is a professional automatic counter developed to accurately measure the concentrations of algae. For both pure cultures of unicellular algae and mixed cultures of multi-algae samples, Countstar® BioMarine can provide accurate results with high repeatability and save your valuable time and energy. Automatic Algae Counter, Count and analysis of Algae, Biomass of Algae, Screening Target Algae Key Benefits: Easy Operation Algae Counting Methods 20 sec. analysis time, Analyze different shapes of Algae	
116	AIB	J-3 TF-318	Research Lab	Fluorescence Microscope	Olumpus (BX-43)	Optical system: UIS2 optical system Focus:Coaxial coarse and fine focus with stage up and down mechanism Focus stroke 25 mm Coarse stroke 15 mm/rotation Fine stroke 100 µm/rotation Illuminator:Built-in Koehler illumination for transmitted light Revolving nosepiece:Interchangeable reversed quintuple/sextuple/septuple nosepiece Observation tube:Widefield tilting, telescopic and lifting binocular, inclined - 3°-27° Condenser:Swing out achromatic condenser (N.A. 0.9), for 1.25x–100x (swing-out: 1.25x–4x) Fluorescence illuminator:Manual reflected fluorescence, 8-position mirror turret unit, encoded with tool-free exchange of filter cubes Motorized reflected fluorescence, 8-position mirror turret unit, encoded with tool-free exchange of filter cubes Fluorescence light source: 100 W Hg apo lamp housing and transformer	

AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
117	AIB	J-3 TF-319	Therapeutic & Molecular Dignostic Lab	UV- VIS Spectrophotometer	Systronics (119)	<p>The advantages of the PC Based UV-VIS Spectrophotometer Type 119 at a glance:</p> <ul style="list-style-type: none"> Automatic source optimisation & base line correction 200 – 1000 nm Range 1 nm Bandwidth %T, Abs, Conc. (K factor, Multi standard up to 5) measuring modes Single Wavelength, Multi Wavelength, Scan (with multi scan facility), Time Scan operating modes Automatic 5 position sample changer Single Position 50/100 mm Cuvette Holder (Optional) 	
118	AIB	J-3 TF-319	Therapeutic & Molecular Dignostic Lab	PCR	BIO-RAD (T100 Thermal Cycler)	<p>100 thermal cycler offers an intuitive touch screen and reliable performance in a compact footprint for performing PCR</p> <p>Key Features:</p> <ul style="list-style-type: none"> Save time programming with the intuitive touch screen Get superior results faster by optimizing your PCR assays in a single run using a thermal gradient Save valuable benchspace with the compact design Keep your protocols organized using personalized folders or a USB flash drive Get reliable performance for years with a robust design that protects the thermoelectric components of the cycler 	
119	AIB	J-3 TF-319	Therapeutic & Molecular Dignostic Lab	Micro Centrifuge	REMI (RM- 12C)	<p>Remi RM-12C Micro Centrifuge (with 10x2 ml Angle Rotor head)</p> <ul style="list-style-type: none"> Compact model is designed for routine work Digital speed indicator and 0-60 minute digital countdown timer 	




AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
120	AIB	J-3 TF-319	Therapeutic & Molecular Diagnostic Lab	Drying Oven	Drying Oven	Drying Oven for drying of Glasswares and Plasticwares etc	
121	AIB	J-3 TF-319	Therapeutic & Molecular Diagnostic Lab	Soxhlet Extraction Unit	EDUDAP	Soxhlet Extraction Unit High quality Borosilicate Glass	
122	AIB	J-3 TF-319	Therapeutic & Molecular Diagnostic Lab	Deep Freezer (-4° C)	Celfrost (-4° C)	Celfrost freezer Temperature Range: -4°C	




AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
123	AIB	J-3 TF-320	Chemical Biology	Lyophilizer	Labconco (Freezone 2.5)	<p>Collector Temperature: -50°C, -58°F Ice Holding Capacity: 2.5 L Options Included: PTFE-Coated Collector Plug Type: North America, 230 volt Style: Benchtop</p>	
124	AIB	J-3 TF-320	Chemical Biology	Rotary Evaporator	Buchi(B-4911/R-210)	<p>Bath Capacity:4L Temperature Range:20°to 100°C Vacuum Controller V-850 for vacuum regulation to a specified setpoint Data transfer via USB interface Timer function for process interruption after a set time Library of 43 predetermined solvents Rotary evaporator with rotation control knob Automatic lift</p>	
125	AIB	J-3 TF-322	Ocular/Cancer Pharmacology & Therapeutics Lab	PCR	Applied Biosystem (2720 Thermal Cycler)	<p>The Applied Biosystems 2720 Thermal Cycler is a personal-sized 96-well thermal cycler is ideal for both basic PCR and cycle-sequencing applications using 0.2 mL reaction tubes or 96-well reaction plates Platinum sensors provide: ♦ Wide temperature range: 4 °C to 99.9 °C ♦ Accuracy: ±0.25 °C from 35 °C to 99.9 °C ♦ Long term stability and high reliability</p>	




AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
126	AIB	J-3 TF-322	Ocular/Cancer Pharmacology & Therapeutics Lab	CO2 Incubator	Eppendorf (Galaxy® 170 S CO2 Incubator)	<p>Galaxy® 170 S high-capacity CO2 incubators can be conveniently placed on or under the bench or even double-stacked, making them ideal for a wide range of specialized applications. The 170 S is the standard model of the 170 series.</p> <p>Sealed inner glass door Reliable IR CO₂ sensor RS-232 communication port 25 mm access ports Low gas consumption Galaxy 170 S CO₂ incubators are high-capacity, 170 liter incubators that provide superior quality, outstanding performance, and intuitive operation</p>	
127	AIB	J-3 TF-322	Ocular/Cancer Pharmacology & Therapeutics Lab	CO2 Incubator	Eppendorf (Galaxy® 170 S CO2 Incubator)	<p>Galaxy® 170 S high-capacity CO2 incubators can be conveniently placed on or under the bench or even double-stacked, making them ideal for a wide range of specialized applications. The 170 S is the standard model of the 170 series.</p> <p>Sealed inner glass door Reliable IR CO₂ sensor RS-232 communication port 25 mm access ports Low gas consumption Galaxy 170 S CO₂ incubators are high-capacity, 170 liter incubators that provide superior quality, outstanding performance, and intuitive operation</p>	
128	AIB	J-3 TF-322	Ocular/Cancer Pharmacology & Therapeutics Lab	Cold Centrifuge	REMI (NEYA 16R)	<p>REMI Neya 16 is designed considering the specific requirements of medical laboratories. Precise control of all run parameters helps in efficient results</p> <p>Max Speed (RPM): 15000 No of Programmes: 10 (Protected) Max Capacity (ml): 4 x 175 Max RCF (g): 21000</p>	




AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
129	AIB	J-3 TF-322	Ocular/Cancer Pharmacology & Therapeutics Lab	Cryostat	Leica Biosystems (CM1520)	<p>Cryostat for routine histology and Mohs surgery</p> <p>The Leica CM1520 cryostat provides with designated storage shelves for samples, object holders, tools and an easily accessible ambient temperature storage</p> <p>Section thickness selection: 2 - 60 μm</p> <p>Maximum specimen speed: 55 x 55 mm</p> <p>Width (with handwheel): 730 mm (28.7 in)</p> <p>Vertical specimen stroke: 59 mm</p>	
130	AIB	J-3 TF-322	Ocular/Cancer Pharmacology & Therapeutics Lab	Inverted Biological Microscope	LMI (BM Smart)	<p>Inverted Biological Microscope BM-Smart offers compact and sleek design, stable and reliable (T) type base unit with infinite optical system.</p> <p>Equipped with superior resolution, long working distance (infinite) phase contrast objectives, to deliver high quality images</p>	
131	AIB	J-3 TF-322	Ocular/Cancer Pharmacology & Therapeutics Lab	Fluo-Prime Inverted Microscope	LMI (Fluo-Prime Inverted)	<p>LMI-INVERTED fluorescence microscope , designed for convenient cell culture observation, to get details of cell growing process, internal spontaneous fluorescence phenomenon, living cell fluorescence transfection, protein transfer and etc.</p>	





AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
132	AIB	J-3 TF-322	Ocular/Cancer Pharmacology & Therapeutics Lab	Microscope	LMI (SZM 167)	<p>LMI SZM-167 Compact and streamlined style, correspond with ergonomic design The new design of the optical system, it improved image quality to new levels, a greater range of clear and high resolution. Wide field of vision, a large zoom ratio, long working distance Integrated design of LED lighting and stand</p> <ul style="list-style-type: none"> ■ All optical components are through special processing and coated with special film, formed a high-quality flat and good contrast optical images in the wide field. Especially in the peripheral visual field, it is more bright and clear. ■ Zoom objective lens 0.67X~4.5X (6.7:1), standard magnification 6.7X~45X. Use optional auxiliary lens, the magnification can be 2X~225X. 	
133	AIB	J-3 TF-322	Ocular/Cancer Pharmacology & Therapeutics Lab	Coaxial Research Binocular Microscope	COSLAB (Coaxial Research Binocular Microscope)	Coslab Coaxial Research Binocular Microscope	
134	AIB	J-3 TF-322	Ocular/Cancer Pharmacology & Therapeutics Lab	Centrifuge		High Speed centrifuge for Lab use	

AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)



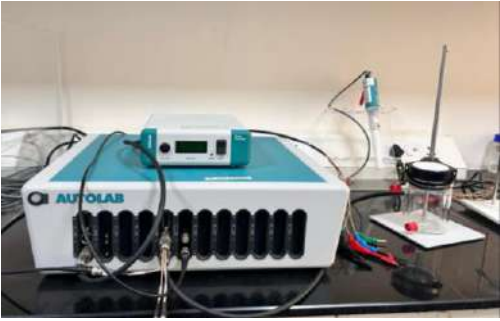

S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
135	AIB	J-3 TF-322	Ocular/Cancer Pharmacology & Therapeutics Lab	Deep Freezer (-20° C)	Celfrost (-20° C)	Celfrost freezer Temperature Range: -20°C	
136	AIB	J-3 TF-322	Ocular/Cancer Pharmacology & Therapeutics Lab	Hot Air Oven	NISCO	Hot air oven for sterilization	
137	AIB	J-3 TF-323	Proteomics & Translational Research Lab	Cooling Centrifuge	REMI (R-8C BL)	Laboratory Centrifuge suitable for routine sample analysis Max. Speed : 6000-16000 rpm Max. RCF: 5070-16600 'g' Max. Capacity:400-40 ml Digital timer range-0-59Min	





AMITY INSTITUTE OF BIOTECHNOLOGY (AIB)


S.No	Institute	Block/ Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
138	AIB	J-3 TF-323	Proteomics & Translational Reaserch Lab	UV- Visible Spectrophotometer (Bio Spectrophotometer BASIC)	Eppendorf	Optical system: Absorption single-beam photometer with reference beam Light source : Xenon flash lamp Wavelengths: 200 nm - 830 nm, smallest increment: 1 nm Spectral bandwidth: ≤ 4 nm Photometric: 0 to 3 A at 260 nm measuring range: ≤ 0.002 at A = 0; ≤ 0.005 (0.5 %) at A = 1 Random error: ±1% at A = 1 Systematic error: Memory Capacity: >1000 results Light beam height: 8.5 mm Cuvette shaft: 12.5mm x 12.5 mm, not temperature controlled Cuvette shaft: temperature: N/A	
139	AIB	J-3 TF-323	Proteomics & Translational Reaserch Lab	Oil Bath Shaker	Laczenie Biosciences	Top Lid: GABLED DOME LID made of Stainless Steel Temperature: Controlled by microprocessor based digital temperature indicator cum controller. Temperature Display: Digital LED with set value (SV) & process value (PV). Shaking Speed: 40 to 140 cycles/min. Shaking Speed: Controlled by speed regulator	
140	AIB	J-3 TF-323	Proteomics & Translational Reaserch Lab	Microspin Centrifuge	Eltek (Microspin TC 4815 D)	Max. Speed : 16000 RPM Max. RCF : 17600xg Max. Tube Size : 5 ml Max. Capacity : 48 ml	
141	AIB	J-3 TF-323	Proteomics & Translational Reaserch Lab	Deep Freezer (-80° C)	Thermo Scientific (- 80°C Upright Ultra- Low Temperature Freezer)	-70°C Upright Ultra-Low Temperature Freezers, designed for daily sample protection and dependability.	

AMITY INSTITUTE OF CLICK CHEMISTRY & RESEARCH STUDIES (AICCRS)





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
1	AICCRS	J1 block G-02	NMR (Nuclear Magnetic Resonance) facility Research Lab	400 Mhz NMR (Nuclear Magnetic Resonance)	Bruker	A Bruker 400 MHz NMR spectrometer typically features a 9.4 Tesla magnetic field, with a 400 MHz proton frequency. It's a high-resolution instrument suitable for detailed structural analysis and other applications. These spectrometers often come equipped with multiple channels for diverse nuclei (1H, 13C, 19F, 31P) and various probe types.	
2	AICCRS	J1 block G-02	NMR (Nuclear Magnetic Resonance) facility Research Lab	Nitrogen Generators	Peak Scientific	Peak Scientific's Genius XE SMZ nitrogen gas generator offers a maximum gas flow of 35 L/min, a maximum purity of 99.5%, and a maximum output pressure of 116 psi. It also features a 30-minute startup time and a power consumption of 1.64 kVA. The generator operates with a voltage range of 220-240v ±10%, a frequency of 50/60 Hz, and a current of 9 Amps.	
3	AICCRS	J1 block G-02	NMR (Nuclear Magnetic Resonance) facility Research Lab	GASMAN OXYGEN GAS DETECTOR	CrowCon	The Crowcon Gasman is a portable, single-gas detector designed for use in hazardous environments. It can be configured to detect various gases, including oxygen, flammable gases, and toxic gases. The Gasman is known for its durability, lightweight design, and user-friendly features.	
4	AICCRS	J1 block G-02	NMR (Nuclear Magnetic Resonance) facility Research Lab	Nitrogen Container	IOCL (Model No- TA55 Quantity 3)	The TA-55 liquid nitrogen container, manufactured by India Oil Corporation Limited (IOCL), is a cryogenic storage solution with a capacity of 51.5 liters. It's designed for applications requiring the storage of biological samples, semen, and other materials at extremely low temperatures. The TA-55 is known for its durability, high storage capacity, and ability to maintain cryogenic temperature	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
5	AICCRS	J1- 102 First Floor	Animal Cell Culture Laboratory	Nitrogen Container	IOCL (Model No- Jumbo-12)	J-12 Liquid Nitrogen Container Cryocan is the largest general category preservation container made by IOCL-IBP Company. In general, the company does not make a larger sample preservation container than this. This container (IBP J-12 LN2 Container) is purely used for sample storage purpose.	
6	AICCRS	J1- 121 First Floor	Biological and Molecular Science (BMS) Research Lab	Fluorescence and Absorbance Spectrometer	Duetta - HORIBA	<p>The Future of Fluorescence</p> <p>Two-in-one Fluorescence and Absorbance Spectrometer</p> <p>UV-Vis-NIR Fluorescence Detection Wavelength Range from 250 to 1,100 nm</p> <p>Full 3-D Fluorescence EEM Acquisition in Less Than One Second</p> <p>Best in Class Fluorescence Sensitivity Specification of 6,000:1 RMS for Water Raman</p> <p>Automatic Correction for Primary and Secondary Inner Filter Effects (IFE)</p> <p>High Fidelity Molecular Fingerprinting with Unique A-TEEM™(Absorbance-Transmittance Excitation Emission Matrix) Technology</p> <p>Millisecond CCD Detection of Entire Fluorescence Spectrum</p>	
7	AICCRS	J1- 102 First Floor	Electrochemical Energy and Sensor Research Lab	Metrohm Autolab Electrochemical Workstation (Multi-Channel Potentiostat Galvanostat) with Impedance Analyzer Module	Metrohm	<p>Multi Autolab Cabinet, 12 available module bays, including USB Hub, cables, labels & 1 dummy cell, NOVA Getting Started</p> <p>Multi Autolab can be fitted with up to 12 M2041 Potentiostat/Galvanostat module</p> <p>Completely Independent Software Control</p> <p>Five Additional Modules to increase adaptability</p> <p>Can be configured to work with single PC or upto three independent PCs</p>	
8	AICCRS	J1- 121 First Floor	Animal Cell Culture Laboratory	Olympus Epifluorescence Microscope	Olympus	The Olympus BX53F is a versatile and powerful epifluorescence microscope that is suitable for a wide range of research and clinical applications. Its advanced features and high-quality optics make it an ideal choice for scientists and researchers who require the best possible fluorescence imaging capabilities.	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
9	AICCRS	J1- 121 First Floor	Biological and Molecular Science (BMS) Research Lab	Cyclic Voltmeter - Potentiostat/Galvanostat/ZRA	Gamry- Reference 600	<p>The 600 is a high-performance potentiostat/galvanostat/ZRA particularly suitable for applications in physical electrochemistry, sensors, coatings, and corrosion.</p> <p>Key features of the 600 include:</p> <p>Designed for fast, low-current measurements Maximum Applied Potential - ± 11 V EIS - 10 μHz - 5 MHz For techniques including:</p> <p>Physical Electrochemistry Pulse Voltammetry Electrochemical Energy</p>	
10	AICCRS	J1- 121 First Floor	Animal Cell Culture Laboratory	Cooling Centrifuge Neuation	iFUGE UC02R NEUATION	<p>iFuge UC02R is a powerful equipment which delivers exemplary performance with operational efficiency. It is refrigerated to maintain a consistent range in the sample temperature and along with it get superior precision from a spin of 15000 RPM. With a programmable microprocessor and automatic shut-off feature, it delivers peak performance, everytime.</p>	
11	AICCRS	J1- 121 First Floor	Biological and Molecular Science (BMS) Research Lab	Western Blot	BIO-RAD	<p>Western blotting, also known as immunoblotting, is a technique used to detect specific proteins in a complex mixture. It involves separating proteins by size using gel electrophoresis, transferring them to a membrane, and then using antibodies to specifically identify the target protein. Bio-Rad provides detailed information about this process and its various aspects.</p>	
12	AICCRS	J1- 121 First Floor	Biological and Molecular Science (BMS) Research Lab	Oxygen Concentrator SZ-5AW	Jiangsu Shuangsheng Medical Appliance Co., Ltd.	<p>iangsu Shuangsheng Medical Appliance Co. Ltd. manufactures various oxygen concentrators with different flow rates and power requirements. Their products include the SZ-5AW series with models like the SZ-5AW-3L, SZ-5AW-5L, and SZ-5AW-10L, each offering different oxygen flow rates. For example, the SZ-5AW-5L model provides a flow rate of 0.5 to 5 LPM (liters per minute) and has a power consumption of 500W.</p>	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
13	AICCRS	J1- 121 First Floor	Animal Cell Culture Laboratory	BIO SAFETY CABINATE	QUEST SCIENTIFIC	Biosafety cabinets (BSCs) are one type of biocontainment equipment used in biological laboratories to provide personnel, environmental, and product protection.	
14	AICCRS	J1- 121A First Floor	Fourier Transform Infrared Spectroscopy FTIR Lab	Fourier Transform Infrared Spectroscopy-FTIR	QUEST SCIENTIFIC	<p>Fourier Transform Infrared Spectroscopy (FTIR) specifications typically include:</p> <p>Spectral range: The range of wavenumbers (cm^{-1}) that the instrument can measure.</p> <p>Spectral resolution: The ability of the instrument to distinguish between closely spaced spectral features.</p> <p>Signal-to-noise ratio: The ratio of the signal intensity to the background noise.</p> <p>Scan speed: The time required to acquire a single spectrum.</p> <p>Detector type: The type of detector used to measure the infrared radiation.</p> <p>Interferometer type: The type of interferometer used to modulate the infrared beam.</p> <p>Sample compartment: The size and type of sample compartment.</p> <p>Software: The software included with the instrument for data acquisition, processing, and analysis.</p>	
15	AICCRS	J1- 120 First Floor	Molecular & Material Science (MMS) Research Laboratory	Neuation iFuge M08 VT-Microplate reader	Neuation	The Neuation iFuge M08 VT is a compact and versatile microcentrifuge designed for a variety of laboratory applications. It offers a combination of speed, accuracy, and convenience.	
16	AICCRS	J1- 121 First Floor	Animal Cell Culture Laboratory	CO2 INCUBATOR	ESCO CelMate	50 L , 170 L and 240 L, entry-level cell culture CO2 incubator with superb contamination control.	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
17	AICCRS	J1- 101 First Floor	Photocatalysis & Synthetic Methodology Lab	Photocatalytic UV chamber	KESSEL	Photocatalytic UV chamber	
18	AICCRS	J1- 101 First Floor	Advanced Nanomaterials Laboratory	Tube Furnace	.	Tube Furnace	
19	AICCRS	J1- 101 First Floor	Advanced Nanomaterials Laboratory	Certifuge	REMI	Laboratory Centrifuge suitable for routine sample analysis Speed: 6000 RPM RCF: 5070 "g"(TM) Capacity: 400 ml Digital Timer Range: 0-99 Min.	
20	AICCRS	J1- 101 First Floor	Advanced Nanomaterials Laboratory	Photocatalytic UV chamber	Indegeneous	Photocatalytic UV chamber	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
21	AICCRS	J1- 121 First Floor	Advanced Nanomaterials Laboratory	Hot Air Oven	i-Therm	<p>The standard double wall fabricated, inner chamber made of anodized aluminum or highly polished stainless steel sheet.</p> <p>uniform heating range 50 to 250 C controlled by capillary type thermostat.</p> <p>L- Shaped thermometer is built in type. Control panel provided with selector switches for high or low rating of power thermostat control knob and indicators for main & thermostat and supplied with cord and plug. The equipment is suitable to operate 220V Ac 50Hz single phase.</p>	
22	AICCRS	J1- 120 First Floor	Molecular & Material Science (MMS) Research Laboratory	Water Filtration Unit	ELGA	<p>Ultrapure water direct from a potable tap water supply</p> <p>Ideal for laboratories</p>	
23	AICCRS	J1- 121 First Floor	Biological and Molecular Science (BMS) Research Lab	UV-VIS Spectrophotometer	PerkinElmer (LAMBDA 365)	<p>The LAMBDA™ 365 delivers state-of-the-art UV Vis performance that meets the needs of pharmaceuticals, analytic chemists, geneticists, and manufacturing QA/QC analysts everywhere. With 21 CFR part 11 compliant software available, the LAMBDA system is ready to support everything from standard methods and applications to those requiring regulatory compliance.</p>	
24	AICCRS	J1- 119 First Floor	Molecular Energy and Catalysis (MEC) Research Laboratory	Rotary Evaporator	IKA	<p>Description Specifications</p> <p>Main Machine - Manual Lift [RE-2] Motorized lift [RE-2A] (0-155mm)</p> <p>Rotating Speed -20-320 rpm motor power: 60w</p> <p>Heating Bath - 1.3Kw SS 316</p> <p>Temperature Range - Digital control Max: 210° C</p> <p>Total Power - 1.360 KW Voltage : ~220V50Hz</p> <p>Condenser - Vertical</p> <p>Charging Pipe -The Valve Charging pipe connects with PTFE pipe</p> <p>Sealing Ring - PTFE Sealing Ring.</p>	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
25	AICCRS	J1- 120 First Floor	Molecular & Material Science (MMS) Research Laboratory	Shaking Incubator	REMI (CIS -24 PLUS)	<p>Orbital shaking incubator is designed for precise temperature control and simultaneous shaking applications required in fermentations studies, enzyme reaction s, life sciences, tissue culture and biotechnology, research labs. These chambers are available in standard & GMP versions.</p> <p>SALIENT FEATURES Brushless induction Motor with variable frequency drive suitable for continuous operations Step less variable frequency drive ensures gentle shaking start and maintains set speed Counter balanced mechanism for high stability in uneven load of different sized flasks Universal Shaking Platform to accommodate different sized assorted flasks Maximum shaking capacity – 9 Flasks x 2000 ml Powerful fan motor for forced air circulation to maintain uniform conditions inside chamber Machine filled CFC free PUF insulation to eliminate void pockets Unique design of thermal barrier for better energy efficiency Heating by long SS tubular heaters Additional tray to store samples Chamber calibration port on side Hermetically sealed Compressor with CFC free refrigerant (CIS–24 Plus) Microprocessor controller with 4” LCD display for display of</p>	
26	AICCRS	J1- 120 First Floor	Molecular & Material Science (MMS) Research Laboratory	Fume Hood facility	SUPREME AIR	<p>Fume Hood facility HEPA Filtered Air Contaminated Worksurface Air Contaminated Room Air Contaminated Room Air Supply</p>	
27	AICCRS	J1- 119 First Floor	Molecular Energy and Catalysis (MEC) Research Lab	Fume Hood facility	SUPREME AIR	<p>Fume Hood facility HEPA Filtered Air Contaminated Worksurface Air Contaminated Room Air Contaminated Room Air Supply</p>	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
28	AICCRS	J1- 119 First Floor	Molecular Energy and Catalysis (MEC) Research Lab	Ultra Low Temperature freezer (-80 C)	Coleparmer	<p>Eye-level controls for quick programming and easy viewing</p> <p>Individually sealed inner doors minimize frost buildup and temperature loss when open</p> <p>Outer door has four gaskets for maximum thermal efficiency</p> <p>Heated pressure equalization port for easy door opening</p>	
29	AICCRS	J1- 121 First Floor	Biological and Molecular Science (BMS) Research Lab	Microbial Culture Facility	NA	Microbial Culture Facility (BSL II A, Shaker Incubator & -20°C Refrigerator)	
30	AICCRS	J-121	Biological Molecular Science (BMS) Research Laboratory	BSL II A	ATLANTIS	<p>1. S. S. tabletop 4 x 2 ft. (Approx.) periphery perforated. 2. 1 x 30 watts UV Germicidal tube fitted in the work area. 3. Front door of transparent Perspex sheet in two sections, with hinges. 4. L. P. G. Bunsen Burner & nozzle for mains gas connection. 5. 1 x 5/15 Amps. Switch/Socket fitted. 6. Static pressure inclined tube Manometer. 7. Partial (25 to 30%) exhaust cum balance re-circulation plenum. 8. HEPA Filter (0.3 micron DOP). For partial exhaust and another Hepa Filter bank .</p>	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
31	AICCRS	J-121	Biological Molecular Science (BMS) Research Laboratory	Refrigerator -20°C	TRUFROST	-20°C Refrigerator for Lab Use	
32	AICCRS	J-121	Biological Molecular Science (BMS) Research Laboratory	Microscope	Magnus	Microscope - Image Magnifying System - Trinocular Microscope MX21i-TR-LED Plus DC10 Camera (1.0X TR Adapter)	
33	AICCRS	J1- 119 First Floor	Molecular Energy and Catalysis (MEC) Research Lab	Rotary Evaporator	IKA	<p>Description Specifications</p> <p>Main Machine - Manual Lift [RE-2] Motorized lift [RE-2A] (0-155mm)</p> <p>Rotating Speed -20-320 rpm motor power: 60w</p> <p>Heating Bath - 1.3Kw SS 316</p> <p>Temperature Range - Digital control Max: 210° C</p> <p>Total Power - 1.360 KW Voltage : ~220V50Hz</p> <p>Condenser - Vertical</p> <p>Charging Pipe -The Valve Charging pipe connects with PTFE pipe</p> <p>Sealing Ring - PTFE Sealing Ring.</p>	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
34	AICCRS	J1- 121 First Floor	Biological Molecular Science (BMS) Research Laboratory	Lyophilizer	Labfreez	<p>Lyophilizer Freeze Dryer covers a range of application from multiuser centralized laboratory application, piolet plant determination works etc. This unit is mounted on castors. The unit has hermetically sealed compressor maintains temperature upto -40°C & -80°C fitted with Micro Processor Digital Temp. Indicator-cum-controller. Trap is given at non magnetic stainless steel dished bottom for complete effluent removal. Refrigerant Coils made of Copper are heavily insulated for maximum efficiency in the condensing chamber.</p> <p>Exterior: Powder coated MS Exterior top: SS 304 Drying chamber: SS 304 Cold Trap Chamber: SS 304 Lids: Acrylic</p>	
35	AICCRS	J-121	Biological Molecular Science (BMS) Research Laboratory	UV-VIS Spectrophotometer	Thermo	<p>The LAMBDA™ 365 delivers state-of-the-art UV Vis performance that meets the needs of pharmaceuticals, analytic chemists, geneticists, and manufacturing QA/QC analysts everywhere. With 21 CFR part 11 compliant software available, the LAMBDA system is ready to support everything from standard methods and applications to those requiring regulatory compliance.</p>	
36	AICCRS	J-120	Molecular and Material Science (MMS) Research Laboratory	Rotary Evapourator	BUCCHI	<p>Description Specifications Main Machine - Manual Lift [RE-2] Motorized lift [RE-2A] (0-155mm) Rotating Speed -20-320 rpm motor power: 60w Heating Bath - 1.3Kw SS 316 Temperature Range - Digital control Max: 210° C Total Power - 1.360 KW Voltage : ~220V50Hz Condenser - Vertical Charging Pipe -The Valve Charging pipe connects with PTFE pipe Sealing Ring - PTFE Sealing Ring.</p>	
37	AICCRS	J1- 120 First Floor	Molecular & Material Science (MMS) Research Laboratory	Vaccum Oven and Vacuum pump	KHERA	Vaccum Oven for Lab use	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
38	AICCRS	J1- 120 First Floor	Molecular & Material Science (MMS) Research Laboratory	Water Bath	NISCO	<p>Range:- 7°C above room temperature to 100°C PID temperature control Over-temperature limiter, alarm indication Analog dialed indication with fine adjustment</p>	
39	AICCRS	J1- 120 First Floor	Molecular & Material Science (MMS) Research Laboratory	Ultra Sonicator	LABMAN	<p>SALIENT FEATURES</p> <ul style="list-style-type: none"> • Continuous Self Tuning Circuitry For Any change In Workload, Liquid Level And Bath Temp. • Uniform Cavitations Through Out The Tank • Separate Oscillator Eliminates Damage To Generator In Case of Failure Of Transducers • Using 40 Khz Frequency For Effective Cleaning With Low Noise • Designed For Complete Cleaning Of Small and Large Components Without Dismantling. • Inner tank and Outer body made of Stainless Steel 	
40	AICCRS	J1- 120 First Floor	Molecular & Material Science (MMS) Research Laboratory	Hot Air Oven	KHERA	<p>The standard double wall fabricated, inner chamber made of anodized aluminum or highly polished stainless steel sheet. uniform heating range 50 to 250 C controlled by capillary type thermostat. L- Shaped thermometer is built in type. Control panel provided with selector switches for high or low rating of power thermostat control knob and indicators for main & thermostat and supplied with cord and plug. The equipment is suitable to operate 220V Ac 50Hz single phase.</p>	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
41	AICCRS	J1- 120 First Floor	Molecular & Material Science Lab	Autoclave Facility	Autoclave	Vertical Autoclave facility for laboratories use	
42	AICCRS	J1- 121 First Floor	Biological and Molecular Science (BMS) Research Lab	Refrigerated Centrifuge	REMI (CPR - 24 Plus)	CPR-24 Plus Refrigerated Centrifuge is designed for centrifugation of temperature sensitive material and find application in routine and research work. Rust proof, easy to clean Stainless Steel centrifuge inner chamber with steel guard. High speed centrifuge Item Code: CPR24PLUS Production Capacity: 20000RPM	
43	AICCRS	J1- 121 First Floor	Biological and Molecular Science (BMS) Research Lab	Microprocessor pH, Conductivity TDS SAL Meter	Labtronics (LT-51)	Microprocessor Digital PH, Conductivity TDS SAL Meter	
44	AICCRS	J1- 121 First Floor	Biological and Molecular Science (BMS) Research Lab	Digital Potensiometer	Labtronics (LT-22)	Digital Potentiometer, is a precision instrument for potentiometric measurements. Results are displayed in milli volts on a direct digital readout by light emitting diodes(LED)	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
45	AICCRS	J1- 121 First Floor	Biological and Molecular Science (BMS) Research Lab	Melting Point Appratus	Veego	Melting Point Appratus	
46	AICCRS	J1- 121 First Floor	Biological and Molecular Science (BMS) Research Lab	Weighting Balance	Wensar	Weighting Balance Max : 220g	
47	AICCRS	J1- 121 First Floor	Biological and Molecular Science (BMS) Research Lab	Weighting Balance	Wensar	Weighting Balance Max : 220g	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
48	AICCRS	J1- 121 First Floor	Biological and Molecular Science (BMS) Research Lab	Centrifuge	REMI (R 8C Plus)	Laboratory Centrifuge suitable for routine sample analysis Speed: 6000 RPM RCF: 5070 "g"(TM) Capacity: 400 ml Digital Timer Range: 0-99 Min.	
49	AICCRS	J1- 121 First Floor	Biological and Molecular Science (BMS) Research Lab	Tube Furnace	KHERA (KI-180 A)	Tube Furnace	
50	AICCRS	J1- 121 First Floor	Biological and Molecular Science (BMS) Research Lab	pH Meter	Labman (LMPH-12)	LMPH-12 Benchtop pH Meter is a high precision pH meter with large backlit LCD display. The meter can displays many useful prompt messages to helps you quickly and easily measuring the samples. Features: Selectable pH buffer standards and temperature units	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
51	AICCRS	J1- 119 First Floor	Molecular Energy and Catalysis (MEC) Research Lab	Hot Air Oven	NISCO	Hot air oven for sterilization	
52	AICCRS	J1- 119 First Floor	Molecular Energy and Catalysis (MEC) Research Lab	Oven programmable up to 200 celius	Swastika India Enterprises	Oven for Laboratory use	
53	AICCRS	J1- 119 First Floor	Molecular Energy and Catalysis (MEC) Research Lab	Hot Plate Magnetic Stirrer	NISCO	Hot Plate Magnetic Stirrer	
54	AICCRS	J1- 119 First Floor	Molecular Energy and Catalysis (MEC) Research Lab	Ultra Violet Fluorescence Analysis Cabinet		Ultra Violet Fluorescence Analysis Cabinet	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
55	AICCRS	J1- 119 First Floor	Molecular Energy and Catalysis (MEC) Research Lab	Dry Bath Incubator	Labtronics	Dry bath incubator or dry block heater is a class I medical device, which is used to provide controlled dry heating environment for test tubes containing in Vitro diagnostic specimens or samples for qualitative or quantitative procedure in clinical laboratories. Dry block heater plays a vital role in incubation and activation of cultures, enzyme reactions, coagulation studies, enzyme reactions, inactivation of sera, restriction digests, Polymerase Chain Reactions .	
56	AICCRS	J1- 119 First Floor	Molecular Energy and Catalysis (MEC) Research Lab	Ultra Sonicator	LABMAN	<p>SALIENT FEATURES</p> <ul style="list-style-type: none"> • Continuous Self Tuning Circuitry For Any change In Workload, Liquid Level And Bath Temp. • Uniform Cavitations Through Out The Tank • Separate Oscillator Eliminates Damage To Generator In Case of Failure Of Transducers • Using 40 Khz Frequency For Effective Cleaning With Low Noise • Designed For Complete Cleaning Of Small and Large Components Without Dismantling. • Inner tank and Outer body made of Stainless Steel 	
57	AICCRS	J1- 119 First Floor	Molecular Energy and Catalysis (MEC) Research Lab	Vaccum Pump	ABDOS	Vaccum Pump for Lab use	
58	AICCRS	J1- 119 First Floor	Molecular Energy and Catalysis (MEC) Research Lab	Hot plate magnetic stirrer	NISCO	Hot plate magnetic stirrer	



S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
60	AICCRS	J1- 119 First Floor	Molecular Energy and Catalysis (MEC) Research Lab	Hot plate magnetic stirrer	REMI (2MLH)	Hot plate magnetic stirrer	
61	AICCRS	J1- 119 First Floor	Molecular Energy and Catalysis (MEC) Research Lab	Hot plate magnetic stirrer	DAN Logitech	Hot plate magnetic stirrer	
63	AICCRS	J1- 119 First Floor	Molecular Energy and Catalysis (MEC) Research Lab	U V chamber	RELITECH	UV Chamber for Lab Use	
64	AICCRS	J1- 119 First Floor	Molecular Energy and Catalysis (MEC) Research Lab	Hot plate magnetic stirrer	LABMAN	Hot Plate Magnetic Stirrer for Lab Use	


S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
65	AICCRS	J1- 119 First Floor	Molecular Energy and Catalysis (MEC) Research Lab	Heating mantle 500 ml	EARTH	Heating Mantle for Lab Use	
66	AICCRS	J1- 119 First Floor	Molecular Energy and Catalysis (MEC) Research Lab	Heating mantle 2 LTR	EARTH	Heating Mantle for Lab Use	
67	AICCRS	J-119	Molecular Energy and Catalysis (MEC) Research Lab	Weighting balance	SARTORIUS	Weighting balance for Lab Use	
68	AICCRS	J1- 119 First Floor	Molecular Energy and Catalysis (MEC) Research Lab	Refrigerator	Samsung	Refrigerator for Lab Use	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
69	AICCRS	J-120	Molecular and Material Science (MMS) Research Laboratory	Distillation unit cap 2.5ltr	MONO QUARTZ	Distillation unit cap 2.5ltr	
70	AICCRS	J-120	Molecular and Material Science (MMS) Research Laboratory	Vaccum Oven And vaccum Pump	SLI	Vaccum Oven for Lab use	
71	AICCRS	J-120	Molecular and Material Science (MMS) Research Laboratory	Water Bath	NISCO	Range:- 7°C above room temperature to 100°C PID temperature control Over-temperature limiter, alarm indication Analog dialed indication with fine adjustment	
72	AICCRS	J-120	Molecular and Material Science (MMS) Research Laboratory	Hot plate magnetic stirrer	NISCO	Hot plate magnetic stirrer	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
75	AICCRS	J-120	Molecular and Material Science (MMS) Research Laboratory	Hot plate magnetic stirrer 2 Ltr.	NISCO	Hot plate magnetic stirrer	
76	AICCRS	J-120	Molecular and Material Science (MMS) Research Laboratory	Hot plate magnetic stirrer	LABMAN	Hot plate magnetic stirrer	
79	AICCRS	J-120	Molecular and Material Science (MMS) Research Laboratory	Refrigerator	Samsung	Refrigerator for Lab Use	
80	AICCRS	J-120	Molecular and Material Science (MMS) Research Laboratory	Refrigerator	LG	Refrigerator for Lab Use	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
81	AICCRS	J-120	Molecular and Material Science (MMS) Research Laboratory	Hot Air Oven	Venture Scientific	The standard double wall fabricated, inner chamber made of anodized aluminum or highly polished stainless steel sheet. uniform heating range 50 to 250 C controlled by capillary type thermostat. L- Shaped thermometer is built in type. Control panel provided with selector switches for high or low rating of power thermostat control knob and indicators for main & thermostat and supplied with cord and plug. The equipment is suitable to operate 220V Ac 50Hz single phase.	
82	AICCRS	J-121	Biological Molecular Science (BMS) Research Laboratory	Ultrasonic cleaner & Vacuum Pressure	TELSONIC KHERA	Ultrasonic cleaner for Lab	
83	AICCRS	J-121	Biological Molecular Science (BMS) Research Laboratory	Hot Air Oven	i-Therm	The standard double wall fabricated, inner chamber made of anodized aluminum or highly polished stainless steel sheet. uniform heating range 50 to 250 C controlled by capillary type thermostat. L- Shaped thermometer is built in type. Control panel provided with selector switches for high or low rating of power thermostat control knob and indicators for main & thermostat and supplied with cord and plug. The equipment is suitable to operate 220V Ac 50Hz single phase.	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
84	AICCRS	J-121	Biological Molecular Science (BMS) Research Laboratory	PH Meter	LABMAN LMPH - 9	LMPH-9 Benchtop pH Meter is a high precision pH meter with large backlit LCD display. The meter can displays many useful prompt messages to helps you quickly and easily measuring the samples. Features: Selectable pH buffer standards and temperature units	
85	AICCRS	J-121	Biological Molecular Science (BMS) Research Laboratory	Rotational Viscometer	Anton Paar VISCO QC 300	Rotational Viscometer for Lab	
86	AICCRS	J-121	Biological Molecular Science (BMS) Research Laboratory	Microscope	OLYMPUS	Monocular Microscope OLYMPUS for Lab	



S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
87	AICCRS	J-121	Biological Molecular Science (BMS) Research Laboratory	Fume Hood facility	ATLANTIS	Fume Hood facility HEPA Filtered Air Contaminated Worksurface Air Contaminated Room Air Contaminated Room Air Supply	
88	AICCRS	102-A	Photocatalysis & Synthetic Methodology Lab	Fume Hood facility	ATLANTIS	Fume Hood facility HEPA Filtered Air Contaminated Worksurface Air Contaminated Room Air Contaminated Room Air Supply	
89	AICCRS	J-121	Biological Molecular Science (BMS) Research Laboratory	Shaker Incubator	LABQUEST BOROSIL	Orbital Shaking Incubator is designed for precise temperature control and simultaneous shaking applications required in fermentations studies, enzyme reactions, life sciences, tissue culture and biotechnology, research labs. These chambers are available in standard & GMP versions. SALIENT FEATURES Brushless induction Motor with variable frequency drive suitable for continuous operations Step less variable frequency drive ensures gentle shaking start and maintains set speed Counter balanced mechanism for high stability in uneven load of different sized flasks Universal Shaking Platform to accommodate different sized assorted flasks Maximum shaking capacity – 9 Flasks x 2000 ml Powerful fan motor for forced air circulation to maintain uniform conditions inside chamber Machine filled CFC free PUF insulation to eliminate void pockets Unique design of thermal barrier for better energy efficiency Heating by long SS tubular heaters Additional tray to store samples Chamber calibration port on side Hermetically sealed Compressor with CFC free refrigerant (CIS-24 Plus) Microprocessor controller with 4" LCD display for display of	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
90	AICCRS	J-121	Biological Molecular Science (BMS) Research Laboratory	Ultra violet fluorescence analysis cabinet	N.A	Ultra violet fluorescence analysis cabinet	
91	AICCRS	J-121	Biological Molecular Science (BMS) Research Laboratory	Power Pack (Quantity 3)	MEDOX	Power Pack for Lab use	
92	AICCRS	J-121	Biological Molecular Science (BMS) Research Laboratory	Oil-Free Piston Vacuum Pump	ABDOS	Oil-Free Piston Vacuum Pump for Lab	


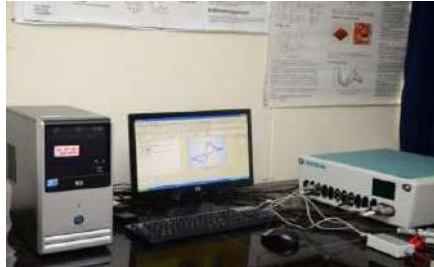

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
93	AICCRS	J-121	Biological Molecular Science (BMS) Research Laboratory	Incubator Shaker	i-Therm SCIENCE LAB INSTRUMENTS	<p>Orbital Shaking Incubator is designed for precise temperature control and simultaneous shaking applications required in fermentations studies, enzyme reaction s, life sciences, tissue culture and biotechnology, research labs. These chambers are available in standard & GMP versions.</p> <p>SALIENT FEATURES Brushless induction Motor with variable frequency drive suitable for continuous operations Step less variable frequency drive ensures gentle shaking start and maintains set speed Counter balanced mechanism for high stability in uneven load of different sized flasks Universal Shaking Platform to accommodate different sized assorted flasks Maximum shaking capacity – 9 Flasks x 2000 ml Powerful fan motor for forced air circulation to maintain uniform conditions inside chamber Machine filled CFC free PUF insulation to eliminate void pockets Unique design of thermal barrier for better energy efficiency Heating by long SS tubular heaters Additional tray to store samples Chamber calibration port on side Hermetically sealed Compressor with CFC free refrigerant (CIS-24 Plus) Microprocessor controller with 4” LCD display for display of</p>	
94	AICCRS	J-121	Biological Molecular Science (BMS) Research Laboratory	Colony Counter		Colony Counter for Lab	
95	AICCRS	J-121	Biological Molecular Science (BMS) Research Laboratory	Refrigerator	SAMSUNG	Refrigerator for Lab Use	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
96	AICCRS	J1- 121 First Floor	Molecular Science & Engineering lab	Micro Plate Reader	Spectra Max M2	SpectraMax M2/M2e readers, there is no need for expensive filters. The system uses two scanning monochromatoes to determine optimal excitation and emission.	
97	AICCRS	J-120	Molecular and Material Science (MMS) Research Laboratory	Hot plate magnetic stirrer	LABMAN	Hot plate magnetic stirrer	
98	AICCRS	J-101	Photocatalysis & Synthetic Methodology Lab	Hot plate magnetic stirrer	LABMAN	Hot plate magnetic stirrer	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
99	AICCRS	J1- 101 First Floor	Advanced Nanomaterials Laboratory	Hot Air Oven	i-Therm	The standard double wall fabricated, inner chamber made of anodized aluminum or highly polished stainless steel sheet. uniform heating range 50 to 250 C controlled by capillary type thermostat. L- Shaped thermometer is built in type. Control panel provided with selector switches for high or low rating of power thermostat control knob and indicators for main & thermostat and supplied with cord and plug. The equipment is suitable to operate 220V Ac 50Hz single phase.	
100	AICCRS	J1- 101 First Floor	Advanced Nanomaterials Laboratory	Centrifuge Machine	REMI (R 8C Plus)	Laboratory Centrifuges model R-8C Plus & R-8M Plus are suitable for routine sample analysis in Medical, Hospital, Pathology and heads and adaptors.	
101	AICCRS	J1- 101 First Floor	Advanced Nanomaterials Laboratory	Heating mantle	LABMAN	Heating Mantle	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
102	AICCRS	J3- 102 First Floor	Electrochemical Energy and Sensor Research Lab	Built -in Dummy Celi	Origa	Drive unit multi channels.	
103	AICCRS / AIB	J3- 103 First Floor	Molecular Science & Engineering lab	Hot Air Oven	KHERA	<p>The standard double wall fabricated, inner chamber made of anodized aluminum or highly polished stainless steel sheet.</p> <p>uniform heating range 50 to 250 C controlled by capillary type thermostat.</p> <p>L- Shaped thermometer is built in type. Control panel provided with selector switches for high or low rating of power thermostat control knob and indicators for main & thermostat and supplied with cord and plug. The equipment is suitable to operate 220V Ac 50Hz single phase.</p>	

Amity Centre for Nanomedicine (ACNM), Amity Institute of Nanotechnology (AINT)




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
1	Amity Centre for Nanomedicine (ACNM), Amity Institute of Nanotechnology (AINT)	J-2 508	Drug Delivery Lab	UV-VIS Spectrophotometer	Shimadzu(UV-1800)	Wavelength range — 190-1100nm Wavelength display- 0.1nm increments Photometric range — Absorbance — 4 to 4 Abs. Transmittance 0% to 400%	
2	Amity Centre for Nanomedicine (ACNM), Amity Institute of Nanotechnology (AINT)	J-2 508	Drug Delivery Lab	Electrochemical Analyser	Auto1ab(AUT8 3 945)	Excellent tool for measurement of electro chemical cells: Cyclic voltametry, impedance spectroscopy. Current range- 10mA — 10mA Accuracy - 0.2% Electrode connections- 2, 3, or 4	
3	Amity Centre for Nanomedicine (ACNM), Amity Institute of Nanotechnology (AINT)	J-2/304	Nanosensor Lab	FTIR	PERKINELMER (Frontier)	For fast and accurate FTIR analysis in a flexible, highly configurable system, count on our market-leading infrared spectrometers and instrumentation. Some applications for molecular spectroscopy study in the near, near-mid, mid-far and far infrared regions include: Chemicals and Materials: Troubleshoot manufacturing problems; identify product contaminants; analyze fuels; gain deeper insights into the properties of novel and advanced materials. Pharmaceuticals: Analyze product formulations and package coatings; rapidly screen the quality of raw materials, intermediates and formulated products; qualify nutraceuticals. Food: Screen for known and unknown adulterants. Environmental Safety: Accurately determine and monitor hydrocarbon levels in the environment.	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
4	Amity Centre for Nanomedicine (ACNM), Amity Institute of Nanotechnology (AINT)	J-2/304	Nanosensor Lab	Fluorescence Microscope	LMI (Fluorescence Microscope)	LMI Fluorescence microscope , designed for convenient cell culture observation, to get details of oell growing process, internal spontaneous fluorescence phenomenon, living cell fluorescence transfection, protein transfer and etc.	
5	Amity Centre for Nanomedicine (ACNM), Amity Institute of Nanotechnology (AINT)	J-2/304	Nanosensor Lab	Ultrapure water systems	ELGA (PURELABR Option Q)	<p>Tap to type I ultrapure water direct from a potable tap water supply. The PURELAB Option-Q is ideal for laboratories who need up to 100 liters of 18.2 MU.cm ultrapure water. With its simple design and ease of use, water can be dispensed at a flow rate of 1.0 l/min.</p> <ul style="list-style-type: none"> • Recirculation of purified water through our wrap-around reservoir to maintain consistent peak water purity • Optional ELGA Biofilter - when fitted to the Option-Q produces water which is free from biologically active impurities. This makes it suitable for use with applications which require endotoxin free ultrapure water, bacteria free water, and nuclease free ultrapure water • Type III / RO water available from reservoir • Front-entry service doors for easy and quick access to consumables Data collection capabilities through RS232 interface for compliance with GLP guidelines • Perfect single system solution for analytical and lifescience applications 	
6	Amity Centre for Nanomedicine (ACNM), Amity Institute of Nanotechnology (AINT)	J-2/304	Nanosensor Lab	Micro Centrifuge	TARSONS (SPINE* MC-03)	<p>Micro Centrifuge</p> <p>Built to accommodate PCR tubes and micro centrifuges for seamless separations. With safety lid lock and lid drop protection, these centrifuges have a fully digital display.</p> <p>Equipped with automatic lid opening to prevent sample over heating, this centrifuge is for sensitive operations.</p>	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
7	Amity Centre for Nanomedicine (ACNM), Amity Institute of Nanotechnology (AINT)	J-2/304	Nanosensor Lab	Ultra Sonicator	LABMAN (LMUC-6)	<p>SALIENT FEATURES</p> <ul style="list-style-type: none"> • Continuous Self Tuning Circuitry For Any change In Workload, Liquid Level And Bath Temp. • Uniform Cavitations Through Out The Tank • Separate Oscillator Eliminates Damage To Generator In Case of Failure Of Transducers • Using 40 Khz Frequency For Effective Cleaning With Low Noise • Designed For Complete Cleaning Of Small and Large Components Without Dismantling, • Inner tank and Outer body made of Stainless Steel Tank Size: 300X155X150mm <p>Basket capacity 6 Ltr Ultrasonic Power: 150W</p>	
8	Amity Centre for Nanomedicine (ACNM), Amity Institute of Nanotechnology (AINT)	J-2/304	Nanosensor Lab	Deep Freezer (-20° C)	Blue Star (-20° C)	Celfrost freezer Temperature Range: -20°C	
9	Amity Centre for Nanomedicine (ACNM), Amity Institute of Nanotechnology (AINT)	J-2/304	Nanosensor Lab	Lyophilizer	Bioteck Brew	<p>Cold Trap Capacity- 6.9L. Vaccum Degree- <10Pa. Water Capture Capacity- 3kg/24h. Drying Chamber Size- Lower circle 10.24 in, Upper circle 9.45 in, Height 1.48 ft. Loading Capacity- 0.3L. Freeze Drying Time- 24h</p>	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
10	Amity Centre for Nanomedicine (ACNM), Amity Institute of Nanotechnology (AINT)	J-2/304	Nanosensor Lab	ELISA Plate Reader	Thermoscientific	Accuracy (Photometric) 1.0% + 0.003 Abs (0 to 2.0 Abs), 2.0% (2.0 to 2.5 Abs) at 450 nm Bandwidth <2.5 nm Linearity 0 to 2.5 Abs, 2% at 450 nm Wavelength Range 200 to 1000 nm Measurement Speed 96 wells: 6 sec., 384 wells: 10 sec.	
11	Amity Centre for Nanomedicine (ACNM), Amity Institute of Nanotechnology (AINT)	J-2/304	Nanosensor Lab	Spin Coating Unit	Harrier Enterprises	Polypropylene Working Chamber (removable), size 6-inch dia, with transparent photo resist lid with interlock safety switch. 500 – 9999 RPM. Microprocessor Programmable Speed control with respect to time Preset editable programs of 1 program 64 segments. Real time display of RPM, time and program stamps. Substrate size from 0.04sq.inch (28 sq.mm) to 4.0 sq. inch (For glass substrate) & 20.0 sq. inch (for silicon wafers). Accuracy $\leq \pm 0.5\%$ of Full Speed	
12	Amity Centre for Nanomedicine (ACNM), Amity Institute of Nanotechnology (AINT)	J-2/304	Nanosensor Lab	Ultra sonic Probe Sonicator	LABMAN	Temperature Meter display on screen. Circulating Glass beaker to rotate the sample- Standard Supply. Pulse/ Frequency and Time Graph in Wave formation. Output amplitude 0-100% adjustable Microprocessor controlled and completely programmable. Auto frequency tracking. Overload and time alarm functions,.	




AMITY CENTRE FOR TRANSLATIONAL RESEARCH (ACTR)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
1	ACTR	J1 219	Infectious Disease Biology laboratory	BSL2 type 2 plus laboratory	Clean room	BSL2 type 2 plus laboratory facility Negative pressure room (-35 psi / main lab) / -20 psi change room	
2	ACTR	J1 117	Immunopharmacology lab	Biosafety Cabinet Class II	RAR Life Sciences	Biosafety Cabinet Class II is a specialized laboratory equipment designed to protect laboratory personnel, the environment, and the product from hazardous biological materials.	
3	ACTR	J-1 S-219	Infectious Disease Biology laboratory	Laminar flow	Clean room	Laminar flow facility	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
4	ACTR	J-1 S-219	Infectious Disease Biology laboratory	CO 2 Incubator	Necternova	Volume: 170L Shelves :4 Shelves Range: 4°C above Ambient to 50°C Uniformity :+/- 0.2°C	
5	ACTR	J1 219	Infectious Disease Biology laboratory	ELISA Microplate Reader/ Spectrophotometer	BenSphera (E 21)	ELISA Microplate Reader for the range of UV/ Visible range	
6	ACTR	J1 219	Infectious Disease Biology laboratory	MACS seperating kit	Miltyenic biotech	MACS seperating kit	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
7	ACTR	J1 219	Infectious Disease Biology laboratory	Bacterial shaker incubator	BioNova	Bacterial shaker incubator	
8	ACTR	J-1 S-219	Infectious Disease Biology laboratory	REFRIGERATED HIGH SPEED CENTRIFUGE	Thermo Scientific (Sorvall ST8R)	<p>Secure, push-button Thermo Scientific™ Auto-Lock™ rotor exchange in as little as three seconds delivers trouble-free rotor installation and removal and clear chamber access for cleaning convenience.</p> <p>Biocontainment sealing options, including certified† Thermo Scientific™ ClickSeal™ lids offer glove-friendly, one-handed operation.</p> <p>Maximized swing-out capacity up to 8 x 50mL conical tubes, 24 x 5/7mL blood tubes, microplates and microtubes, all in one versatile centrifuge</p> <p>Fixed angle flexibility to spin 50mL conical tubes at over 12,000 x g or a wide range of microtubes at speeds up to 30,279 x g</p> <p>User-friendly performance: Low noise levels, including just 52 dBA at performance of 17,850rpm/30,279 x g (with Sorvall ST 8R centrifuge), to ensure a peaceful laboratory</p> <p>One-touch operation with pre-saved protocols</p> <p>Highly visible backlit display offers easy reading of parameters across the lab</p> <p>Glove- and detergent-friendly user interface</p> <p>Multilingual instructions offered in English, Dutch, French, German, Italian, Russian and Spanish on programming, run conditions, alerts and service messages</p> <p>Centrifuge conforms to the latest clinical and safety standards such as UL, CE and IVD</p> <p>Clinical Applications:</p> <p>Runs up to 24 x 5/7mL blood tubes at a time in swinging bucket configuration</p> <p>Conforms to the latest clinical and safety standards</p>	
9	ACTR	J1 219	Infectious Disease Biology laboratory	Ultra Low Temperature Freezer (-85° C)	Haier (DW-86L628)	<p>Ultra Low Temperature (ULT) Freezer (-85° C)</p> <p>Volume: 628L</p> <p>Class: N</p>	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
10	ACTR	J-1 S-219 & J-1 117	infectious Disease Biology laboratory and Immunopharma ology laboratory	Refrigerator including -20° C	LG (HYCD-215)	Refrigerator including -20° C	
11	ACTR	J-1 S-219 & J-1 117	infectious Disease Biology laboratory and Immunopharma ology laboratory	Freezer (-20° C)	Celfrost	Freezer (-20° C)	
12	ACTR	J1 219	Infectious Disease Biology laboratory	Inverted Microscope	Motic (AE2000)	Motic AE2000 Inverted Microscope is the ideal instrument for routine live cell inspection in both educational and high grade professional applications. - An interchangeable HAL/LED and LED *K illumination. - Auto on-off energy saving feature inverted microscope.	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
13	ACTR	J1 219	Infectious Disease Biology laboratory	Centrifuge	REMI (R-8C)	Laboratory Centrifuges model R-8C is suitable for routine sample analysis in Medical, Hospital, Pathology and Institutional laboratories. With a wide choice of rotor heads and adaptors, this unit are truly versatile.	
14	ACTR	J1 219	Infectious Disease Biology laboratory	Centrifuge	eppendorf (Mini Spin)	Mini Centrifuge	
15	ACTR	J1 219	Infectious Disease Biology laboratory	Hot Air Oven	-	Hot Air Oven	
16	ACTR	J1 219	Infectious Disease Biology laboratory	Autoclave	-	Vertical Autoclave	


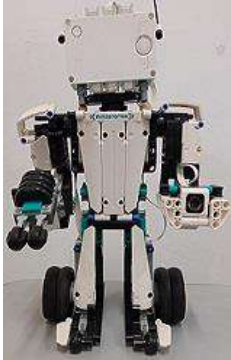


AMITY INSTITUTE OF NUCLEAR SCIENCE & TECHNOLOGY (AINST)





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
1	AINST	B-Block LG-06	Nuclear Security Lab-2	RADEAGLET-R-2SG	AMETEK R-2SG	Gamma Handheld Ruggedized RIID with 2*1 NaI (TL) Detector & GM Tube. Includes Hand strap, KCI Calibration Source,	
2	AINST	B-Block LG-06	Nuclear Security Lab-2	Backpack Isotope Identifier	Berkeley Nucleonics Corporation. RD-120-GN	SAN PACK, Back Pack Isotope identifier with Gamma and Neutron detector.	
3	AINST	B-Block LG-06	Nuclear Security Lab-2	R400-NG identiFINDER	FLIR R400-NG	R400-NG identiFINDER With 137 Csµ Ci Source (Attached for Calibration)	
4	AINST	B-Block LG-06	Nuclear Security Lab-2	RIID EYE-X-GN	Thermo Scientific EYE-X-GN	Neutron CYCL Inorganic Scintillation and NaI (2*1) Detector	
5	AINST	B-Block LG-06	Nuclear Security Lab-2	RADEYE SPRD Kit	Thermo Scientific	CsI Detector	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
6	AINST	B-Block LG-06	Nuclear Security Lab-2	SPIRSPEC-NG NaI Genie X-part	MIRION Supply By: Advance Tech	NaI Detector Genie X-part	
7	AINST	B-Block LG-07	Nuclear Security Lab-1	Basic Lab Kit Quantity-4 NaI Detector	MIRION Supply By: Advance Tech	Absorber, (Al, Cu, Pb & Polyethene) Lad Shield & collimeters. 802 NaI (TI) + Osprey & Scattering Table	
8	AINST	B-Block LG-07	Nuclear Security Lab-1	Digital Oscilloscope Quantity-4	Tektronix	Model No. TBS1072C 70 MHz	
9	AINST	B-Block LG-07	Nuclear Security Lab-1	Scintillation detector CeBr3 , Quantity-4	Advancetech	CeBr3 with 1.5 × 1.5	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
11	AINST	B-Block LG-07	Nuclear Security Lab-1	Lud Lum Instruments GM Counter (Quantity-04) Portal Monitor (Quantity-01)	Lud Lum	Gamma detector model no 133-2-1	
14	AINST	B-Block LG-07	Nuclear Security Lab-1	HPGe Detector Shielding with Suitable Tube. Modle - 2A (Quantity-04)	Saru Shielding	Tube. Modle - 2A Dewar Levelling Stand Comissioning Amulator Plugs	
17	AINST	B-Block LG-07	Nuclear Security Lab-1	Lab Kit Advanced- LYNX HPGe Detector & NaI Detector (Quantity-04 Each)	Advancetech	LYNX Multichennal Analyzer/ BE2825	
19	AINST	B-Block LG-07	Nuclear Security Lab-1	ALPHA Aria Spectrometer (Quantity-04)	ORTEC 4001C Bin	160 Watt Power Supply	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
10	AINST	B-Block LG-09	Neutron Lab	1. Area Monitor 2. Survey Meter 3. Neutron Survey Meter 4. Neutron Dosimeter Quantity-1 Each	Thermofisher	Neutron proportional counter with Cd moderator	
13	AINST	B-Block LG-09	Neutron Lab	Wide Range Gamma Detector Quantity-1	Thermofisher	Gamma probe consist of GM Counter	
12	AINST	B-Block LG-09	Remote Lab	1. web Cam 2. IR Sensor 3. Stepper Motor 4. Linear Accuater 5. Controller 6. Ethernet hube (8 Port) Quantity-1 Each	Allince	all equipment are compatable with LABVIEW software	
15	AINST	B-Block LG-09	Remote Lab	Liquid Crystal scintillation Detector (Neutron Detector)	St Gobain (crystal) and CAEN made HV power supply and Digitizer	Neutron Detector and Neutron Detection System	


S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
16	AINST	B-Block LG-09	Remote Lab	Alpha Analyst Benchtop Instruments with mixed Alpha standard Source	Advancetech	Instruments with mixed Alpha standard Source	
18	AINST	B-Block LG-09	Remote Lab	LEGO51515 Mindstorms Robot Inventor	LEGO	Robot Inventor	
20	AINST	B-Block LG-09	Remote Lab	HPGe Coaxial Detector	ORTEC 45 mm Ultra Detector	45 mm Ultra Detector 5Ltr. Cryastal Dewar	
21	AINST	B-Block LG-10	M-Tech Lab	USB ALPHA Spectrometer + MCA With Small Vacuum	CSP Research	Multi Channel MCA	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
22	AINST	B-Block LG-10	M-Tech Lab	Gamma Ray Spectrometer (GR612) Quantity-02	Nucleonix (GR612)	High Voltage Supply and NIM Bin with spectroscopic modules	
23	AINST	B-Block LG-10	M-Tech Lab	Gamma Ray Spectrometer (GR611M) Quantity-02	Nucleonix (GR611)	High Voltage Supply and NIM Bin with spectroscopic modules	
24	AINST	B-Block LG-10	M-Tech Lab	2 Gamma Spectrometer + 1 MCA + 1 Digital Goniometer	CSP Research	USB ALPHA Spectrometer With MCA & Small Vacuum	
25	AINST	B-Block LG-10	M-Tech Lab	Flat Type 1 x 1 GM Detector (SD151)	Nucleonix (SD151)	NaI 1X1	



S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
26	AINST	B-Block LG-10	M-Tech Lab	Nal Scintillation Detector (1 X 1) (SD151) (Quantity-02)	Nucleonix) (SD151)	NaI 1X1	
27	AINST	B-Block LG-10	M-Tech Lab	Nal Scintillation Detector (2 x 2) (SD152)	Nucleonix (SD152)	NaI 2X2	
28	AINST	B-Block LG-10	M-Tech Lab	Digital CRO (60 MHz)	Tektronix TDS1002B	60 MHz.	
29	AINST	B-Block LG-10	M-Tech Lab	GM Counting System-AT GC602A (Quantity-02)	Nucleonix AT GC602A	High Voltage Supply Up to (0-1500V DC)	
30	AINST	B-Block LG-10	M-Tech Lab	GM Counting System-AT GC601A (Quantity-02)	Nucleonix AT GC601A	High Voltage Supply Up to (0-1500V DC)	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
31	AINST	B-Block LG-03	Modern Physics Lab	EMS-Set Up (EMX-01)	S Instruments (EMX-01)	Voltage-(50V-250V DC) Current (0-3 A)	
32	AINST	B-Block LG-03	Modern Physics Lab	Frank- Hertz Experiment (FH-30001)	S Instruments(FH-30001)	VG1K-1.3V-5V Dc VG2A-1.3-15V Dc VG2K- 0-80V Dc	
33	AINST	B-Block LG-03	Modern Physics Lab	Electron Spin Resonance Spectrometer (ESR-105)	S Instruments (ESR-105)	Coil Diameter 15.4 Cm Sepreting Coil 7.7 mm No. of Turns 500	
34	AINST	B-Block LG-03	Modern Physics Lab	Hall Effect Setup (DHE-21)	S Instruments (DHE-21)	Range: 0-200mV (Resolution 100 μ V)	
35	AINST	B-Block LG-03	Modern Physics Lab	Magneto Resistance Setup (DMR-01)	S Instruments(DMR-01)	02KG- 20 KG Resolution 1Gauss-20K Gauss	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
36	AINST	B-Block LG-03	Modern PhysicsLab	Constant Current Power Supply (DPS-50) (Quantity-02)	ES Instruments(DPS-50)	Current 0A-4A Power 220V AC , 50HZ.	
37	AINST	B-Block LG-03	Modern PhysicsLab	Digital Gauss Meter (DGM-102) (Quantity-02)	S Instruments(DGM-102)	0-20Kg to 0-100KG Temp. 50 °C	
38	AINST	B-Block LG-03	Modern PhysicsLab	Electromagnet (EMU-50) (Quantity-02)	S Instruments(EMU-50)	Weight 60 Kg Kilograms (kg)	
39	AINST	B-Block LG-03	Modern PhysicsLab	Travelling Microscope	National Scientific Inst. (Permanent)		

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
40	AINST	B-Block LG-03	Modern Physics Lab	Four Prob Set-Up (DFP-02)	ES Instruments(DFP-02)	Max. Temp. 200 °C Output Temp. 1750 °C maximum Voltage 45V Dc	

AMITY INSTITUTE OF VIROLOGY & IMMUNOLOGY (AIVI)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
1	AIVI	J3, Lower Ground Floor, LG 14	B.Sc Practical Laboratory	Phase Contrast/ Dark Field/ Bright Field Microscope	Nikon (Eclipse 3200)	<p>Optical System :- CFI60 Infinity Optical System, Parfocal distance: 60 mm</p> <p>Illumination :- High luminescent white LED illuminator (Eco-illumination), 6V20W/6V30W halogen lamp, Compliant multi-voltage (100 V-240 V)</p> <p>Eyepieces (F.O.V.): -CFI E 10x (20 mm) , CFI E 15x (12 mm)</p> <p>Focusing:- Coaxial coarse/fine focusing, Coarse motion torque adjustable, Refocusing function</p> <p>Eyepiece Tube:-E2-TB Binocular Tube; E2-TF Trinocular Tube, Eyepiece/Port: 100/0, 0/100, 360° rotatable; C-TE2 Ergonomic Binocular Tube, Inclination: 10–30 degrees, Extension: up to 40 mm</p> <p>Nosepiece :-Quadruple nosepiece (within main body)</p> <p>Objectives (NA / W.D., mm):-CFI E Plan Achromat 4X (0.10 / 30); CFI E Plan Achromat 10X (0.25 / 0.7); CFI E Plan Achromat 40X (0.65 / 0.65); CFI E Plan Achromat 100X Oil (1.25 / 0.23); CFI Achromat DL and other higher-grade CFI60</p> <p>Condensers:-E2 Abbe Condenser N.A. 1.25, E2 Phase Condenser N.A. 1.25</p> <p>Observation Methods Brightfield, Epi-fluorescence, Darkfield, Phase contrast, Simple polarizing</p>	
2	AIVI	J3, Lower Ground Floor, LG 10	Clinical Bacteriology Lab	Gel Doc System	Bio Rad (GelDoc™ XR+)	<p>Applications:-Fluorescence,Colorimetry/densitometry,Gel documentation</p> <p>Maximum sample size:-28 x 36 cm</p> <p>Maximum image area:-19.4 x 26 cm</p> <p>Excitation source:-Epi-white light and trans-UV (302 nm) are standard (optional 365 nm lamp available); optional trans-white conversion screen and XcitaBlue™ UV/blue conversion screen available</p> <p>Illumination control:-3 modes (trans-UV, trans white, epi-white)</p> <p>Detector:-CCD</p> <p>Image resolution:-4 megapixels</p> <p>Filter holder:-3 positions (2 for filters, 1 without filter)</p> <p>Dynamic range:- >3.0 orders of magnitude</p>	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
3	AIVI	J3, Lower Ground Floor, LG 14	B.Sc Practical Laboratory	Orbtal Shaking Incubator	ST	Shaking Speed 20 to 300 + RAM Flask Capacity 50 to 2000 ml	 A white orbital shaking incubator with a blue control panel and a glass viewing window. The text 'QST ORBITAL HEATING' is printed vertically on the left side, and 'SHAKING INCUBATOR' is on the right. The 'ST' logo is visible at the top left.
4	AIVI	J3, Lower Ground Floor, LG 14	B.Sc Practical Laboratory	PCR Machine	HiMedia/Wee32	96 well x 0.2ml PCR tubes/ one 96 well plate/3X 32 wells, 2. Gradient PCR = capable of testing 12 different temperatures simultaneously across a gradient range of 1-20 and a temperature gradient from 30 - 99° C, with minimum 0.1° C increment in gradient	 A red and white PCR thermocycler machine. The top lid is white with a black control panel and a digital display. The base is red.
5	AIVI	J3, Lower Ground Floor, LG 14B	B.Sc Practical Laboratory-II	Centrifuge	CF5/Nuaction	15- 25°C Power supply 220-140v	 A white benchtop centrifuge with a control panel on top. The control panel features several buttons and a digital display. The machine has a rounded, boxy design.

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
6	AIVI	J3, Lower Ground Floor, LG 14B	B.Sc Practical Laboratory-II	Deep Freeze -20 C	Blue star	volume range: 100-1000 μ l. Volume increment: 1 μ l. 0.5-10 μ l	
7	AIVI	J3, Lower Ground Floor, LG 14B	B.Sc Practical Laboratory-II	Fluorometer	Quantus/Promega	Deminsion- 22.7x11.5x4.5cm	
8	AIVI	J3, Lower Ground Floor, LG 11	BSL-2 Lab	Refrigerated Centrifuge	Centrifuge 5410R	Max speed 15,200 RPM	
9	AIVI	J3, Lower Ground Floor, LG 11	BSL-2 Lab	Table Top Centrifuges 5415 R	5415R	Max speed 13,200 RPM	


S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
10	AIVI	J3, Lower Ground Floor, LG 11	BSL-2 Lab	The Belly Dancer	220V	Speed range 0 to 100 RPM	
11	AIVI	J3, Lower Ground Floor, LG 11	BSL-2 Lab	Co2 Incubator	New Brunswick	Capacity 140-200 liter, Temp Management +5°C	
12	AIVI	J3, Lower Ground Floor, LG 11	BSL-2 Lab	Microscope	Zeiss	magnification 5x480x, 78mm	
13	AIVI	J3, Lower Ground Floor, LG 11	BSL-2 Lab	magnetic Stirrer	zely-42641	Speed range: 300 ... 15800 rpm (adjustable) · Accuracy: +/- 1 rpm	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
14	AIVI	J3, Lower Ground Floor, LG 11	BSL-2 Lab	Dry block incubator	Relitech	≤30min (from 40°C to 150°C), ≤20min (25°C to 130°C), Temp Range, Ambient +5°C - 160°C Ambient +5°C - 130°C	
15	AIVI	J3, Lower Ground Floor, LG 10	Clinical Bacteriology Lab	Nikkon Microscope	Nikkon	Range 0.63x15.7	
16	AIVI	J3, Lower Ground Floor, LG 10	Clinical Bacteriology Lab	Laminar Flow Hood	Laczene Biosciences	Air flow vertical or horizontal, Air cleanliness 150 5.7	
17	AIVI	J3, Lower Ground Floor, LG 10	Clinical Bacteriology Lab	BOD Incubator (ICMR funded)	Laczene Biosciences	Capacity 5°C TO 60°C	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
18	AIVI	J3, Lower Ground Floor, LG 09	Medical Virology Lab BSL-II	Lab Autoclave	110PB	121°C to 134°C (150°C - Optional)	
19	AIVI	J3, Lower Ground Floor, LG 09	Medical Virology Lab BSL-II	Water bath	LZ/0089	Capacity: 3.4 L, Temperature Range: RT+5°C to 100°C, Temperature Resolution: ±0.5°C, Temperature Stability: ±1.0°C, Inner Dimension (WxDxH): 168x168x120 mm	
20	AIVI	J3, Lower Ground Floor, LG 09	Medical Virology Lab BSL-II	Incubator Shaker (DST funded)	L7003	100mlx 49, 150mlx 49, 250mlx33, 500mlx24, 1000mlx15, 2000mlx9	
21	AIVI	J3, Lower Ground Floor, LG 09	Medical Virology Lab BSL-II	Microwave Oven (DST funded)	MC-7880PSR	Type. Convection. 32. Control Type. Tact (Buttons). 33. Frequency. 2450 MHz. 34. Display Type. LED Digital Display. Technical Specification : MICROWAVE	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
22	AIVI	J3, Lower Ground Floor, LG 09	Medical Virology Lab BSL-II	Laminar Air Flow (DST Funded)		Air flow vertical or horizontal, Air cleanliness 150 5.7	
23	AIVI	J3, Lower Ground Floor, LG 09	Medical Virology Lab BSL-II	Biosafety Level 2 Cabinet	Labconco	Air flow system 70% air filtration-HEPA filter	
24	AIVI	J3, Lower Ground Floor, LG 09	Medical Virology Lab BSL-II	Inverted Microscope	Basic	Objective lens 4 10x, 20x, 40x, illumination system	
25	AIVI	J3, Lower Ground Floor, LG 09	Medical Virology Lab BSL-II	CO2 Cylinder	NA	working pressure 150-200 bar	



S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
26	AIVI	J3, Lower Ground Floor, LG 09	Medical Virology Lab BSL-II	Non-refrigerated Centrifuge	NA	Max speed 6000-15000 RPM	
27	AIVI	J3, Lower Ground Floor, LG 09	Medical Virology Lab BSL-II	Inverted Microscope	Primovert	Objective lens 4, 10x, 20x, illumination	
28	AIVI	J3, Lower Ground Floor, LG 09	Medical Virology Lab BSL-II	Centrifuge	UCO2R	speed range 500-15000RPM	
29	AIVI	J3, Lower Ground Floor, LG 09	Medical Virology Lab BSL-II	Sonicator	JULABO	Temp Manual, frequency 20-40KHz	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
30	AIVI	J3, Lower Ground Floor, LG 09	Medical Virology Lab BSL-II	PH Meter	NA	Range 2 to 20 ph, temp 0°C to 100°C	
31	AIVI	J3, Lower Ground Floor, LG 09	Medical Virology Lab BSL-II	Dry block	NA	Interchangeable aluminium blocks, heating time 15 mins	
32	AIVI	J3, Lower Ground Floor, LG 09	Medical Virology Lab BSL-II	Vortex Mixer	LZ/0070	Upto 2000 RPM; Input Voltage 220 V AC ± 10%, 50-60 Hz;	
33	AIVI	J3, Lower Ground Floor, LG 09	Medical Virology Lab BSL-II	Microcentrifuge	14K	speed range 200 to 15000 rpm	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
34	AIVI	J3, Lower Ground Floor, LG 09	Medical Virology Lab BSL-II	UV transilluminator	UV transilluminator-BLB	365 mm black light blue, filtering blb tubes	
35	AIVI	J3, Lower Ground Floor, LG 09	Medical Virology Lab BSL-II	Weighing Machine	1000 w	capacity 100 kg 1ton, mild steel	
36	AIVI	J3, Lower Ground Floor, LG 09	Medical Virology Lab BSL-II	Vertical Slab Midi Gel Electrophoresis Unit	MX-1235-01	cal midi gels are typically around 16 x 14 cm or 16 x 20 cm	
37	AIVI	J3, Lower Ground Floor, LG 09	Medical Virology Lab BSL-II	Thermal Cycler (DST funded)	T1000	vol range 1-100, lid temp, 40110°C	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
38	AIVI	J3, Lower Ground Floor, LG 09	Medical Virology Lab BSL-II	Spectrophotometer	Basic Biospectrometer	range 200nm to 830nm	
39	AIVI	J3, Lower Ground Floor, LG 09	Medical Virology Lab BSL-II	High Pressure Liquid Chromatography with Rehdoyne Injector 7725	LT-3201	vol range 1-5ml	
40	AIVI	J3, Lower Ground Floor, LG 09	Medical Virology Lab BSL-II	Samsung Refridgerator	RT39CSS3158/HL	capacity 363L, 1 star	
41	AIVI	J3, Lower Ground Floor, LG 09	Medical Virology Lab BSL-II	BSL-II (Ks 18 Safety Cabinet Cl.Ii En)	Hera Safe Ks	filter efficiency 99.99.5% at 0.3, H14 HOPA filter, downflow 0.35-0.55m/s	


S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
42	AIVI	J3, Lower Ground Floor, LG 09	Medical Virology Lab BSL-II	Microplate Shaker	Neuation	Neuation	
43	AIVI	J3, Lower Ground Floor, LG 09	Medical Virology Lab BSL-II	Ultra Sonic Cleaner	Labman	Ultra Sonic Cleaner 5ltr	
44	AIVI	J3, Lower Ground Floor, LG 11	BSL-2 Lab	Magnetic Stirrer	Khara Instruments Pvt. Ltd.	Magnetic Stirrer	
45	AIVI	J3, Lower Ground Floor, LG 11	BSL-2 Lab	Binocular Microscope	NA	360° Rotable, 10x40x, 100x	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
46	AIVI	J3, Lower Ground Floor, LG 11	BSL-2 Lab	Incubator Shaker	Diichi Sankyo	5°C-60°C, 30-400 RPM, 300l	
47	AIVI	J3, Lower Ground Floor, LG 11	BSL-2 Lab	LG Refridgerator	LG	CAPACITY 300l, SINGLE DOOR	
48	AIVI	J-3, LG-10	Plant Virology & Tissue Culture Lab	Thermal cycler	Applied Biosystems	4°C-99°C, 0.2 ml format	
49	AIVI	J-3, LG-10	Plant Virology & Tissue Culture Lab	Refrigerated Centrifuge	Eppendorf	10000 rpm, 4°C	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
50	AIVI	J-3, LG-10	Plant Virology & Tissue Culture Lab	SPINWIN	Tarson	10000 rpm, 4°C	
51	AIVI	J-3, LG-10	Plant Virology & Tissue Culture Lab	SPINWIN	Tarson	10000 rpm, 4°C	
52	AIVI	J-3, LG-10	Plant Virology & Tissue Culture Lab	Magnetic Stirrer	Remi	capacity 1L, upto 1500pm	
53	AIVI	J-3, LG-10	Plant Virology & Tissue Culture Lab	Vortex Mixer	Remi	Upto 2000 RPM; Input Voltage 220 V AC ± 10%, 50-60 Hz;	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
54	AIVI	J-3, LG-10	Plant Virology & Tissue Culture Lab	Submarine Electrophoresis+Power Supply Unit	Genetix	1.5mm. 8 well/15-well	
55	AIVI	J-3, LG-10	Plant Virology & Tissue Culture Lab	Water Bath	Cole-Parmer	Capacity: 3.4 L, Temperature Range: RT+5°C to 100°C, Temperature Resolution: ±0.5°C, Temperature Stability: ±1.0°C, Inner Dimension (WxDxH): 168x168x120 mm	
56	AIVI	J-3, LG-10	Plant Virology & Tissue Culture Lab	Ice Flaker	Wensar	100 kg per 24 hrs production, 25kg to 60kg	
57	AIVI	J-3, LG-10	Plant Virology & Tissue Culture Lab	Electrophoresis Unit (Genei)	Genei (3 units)	7x8cm, mini gel, 15x20cm, large gel, 3000-1000ml	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
58	AIVI	J-3, LG-10	Plant Virology & Tissue Culture Lab	Laminar Flow Hood	Laczene	HEPA, 99.9% efficiency at 0.3 micron	
59	AIVI	J-3, LG-10	Plant Virology & Tissue Culture Lab	Cages for maintaining plants	Laczene	3x2x5 ft, light	
60	AIVI	J-3, LG-10	Plant Virology & Tissue Culture Lab	Double Distillation Unit (Borosil)	Borosil	typically ranging from 1.5 to 5 liters per hour.	
61	AIVI	J-3, LG-10	Plant Virology & Tissue Culture Lab	Rocker	Tarson	5-70 rpm, 7° to 9° anle 2-5 kg, 220-240 vac	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
62	AIVI	J-3, LG-10	Plant Virology & Tissue Culture Lab	Fridge	Godrej	capacity 500-670L, temp 2-8°	

Amity Food and Agriculture Foundation (AFAF)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
1	AFAF	J1- G04 Ground Floor	GC and HPLC Lab	GC System	Agilent (GC AND GC/MS)	The Agilent portfolio of GC/MS instruments provides comprehensive analytical capabilities, allowing users to achieve sensitive, robust, and reliable GC/MS analysis of any sample in a routine setting.	
2	AFAF	J1- G04 Ground Floor	GC and HPLC Lab	HPLC	Agilent (1260 Infinity 11 Prime LC)	<p>The 1260 Infinity II LC System is a robust high performance liquid chromatography instrument that offers the widest choice of modules for analytical HPLC and entry-level UHPLC. It delivers the performance, reliability, and robustness you need for highest confidence in your daily results.</p> <p>Building on the history of the 1100 and 1200 series analytical HPLC, the 1260 Infinity II LC delivers robust HPLC results while providing several ease-of-use features, making it the standard system for routine HPLC testing and analysis. Mix and match new modules with existing HPLC instrumentation to maximize uptime and minimize disruption. The 1260 Infinity II LC puts you on the fast track to efficiency, optimizing speed and resolution for analysis by HPLC.</p>	
3	AFAF	J1- G04 Ground Floor	GC and HPLC Lab	pH Meter	Toshniwal Instruments Mfg. Pvt. Ltd., Ajmer (CL-54)	<p>Product Specification pH Range 0-14.00 mV Range + -1999 Temperature Range 0 -100 Deg C</p> <p>Product Description 3½ digit large LED display Slope correction facility available pH/ Redox/ Temp. measurement</p>	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
4	AFAF	J1- G04 Ground Floor	GC and HPLC Lab	Weighting Balance	Wensar	Weighting Balance Max : 220g	
5	AFAF	J1- G04 Ground Floor	GC and HPLC Lab	Kjeldhal Distillation Unit	Tradevel Scientific Industries, Delhi	Kjeldhal Distillation Unit	
6	AFAF	J1- G04 Ground Floor	GC and HPLC Lab	Ultra Sonicator	LABMAN	<p>SALIENT FEATURES</p> <ul style="list-style-type: none"> • Continuous Self Tuning Circuitry For Any change In Workload, Liquid Level And Bath Temp. • Uniform Cavitations Through Out The Tank • Separate Oscillator Eliminates Damage To Generator In Case of Failure Of Transducers • Using 40 Khz Frequency For Effective Cleaning With Low Noise • Designed For Complete Cleaning Of Small and Large Components Without Dismantling, • Inner tank and Outer body made of Stainless Steel 	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
7	AFAF	J1- G04 Ground Floor	GC and HPLC Lab	Magnetic Stirrer (with Hotplate)	REMI (2 LMH)	<p>Remi Magnetic Stirrer Model: 2 MLH is with PMDC Motor for higher torque even at low speeds. Better speed regulation even with small volume & Low speeds. Accurate Stepless speed control maintains excellent speed stability, Digital speed indicator for display of stirring speed. Totally enclosed unit Designed for use even in corrosive atmosphere.</p>	
8	AFAF	J1- LG03 Lower Floor	Tissue Culture Lab	Centrifuge	REMI (R-23)	<p>R-23 centrifuge is widely used in auxiliary laboratories in industry, Educational & Research institutions, Bio Technology, Medical Laboratories, Hospitals, Blood Banks, Pharmaceutical laboratories and agriculture soil testing for determination of moisture equivalent of soil. It is also suitable for determination of settlement of paints, pastes, cosmetics and food products. Centrifuge rotors & carriers are also suitable for use with Variety of Falcon & Vacutainer Tubes.</p> <p>SALIENT FEATURES Stepless speed regulator with zero start interlock Digital speed indicator Dynamic brake 0-99 minutes digital count down timer Imbalance detector with cutoff Safety lid interlock to prevent cover opening during centrifugation</p>	
9	AFAF	J1- LG05 Lower Floor	Cold Room Lab	Deep Freezer (-4° C)	Celfrost (-4° C)	<p>Celfrost freezer Temperature Range: -4°C</p>	



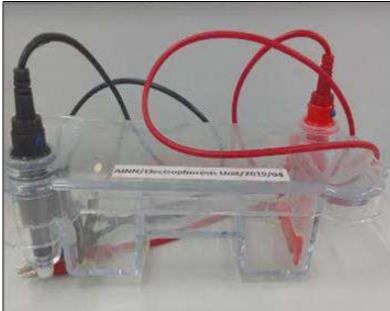
S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
10	AFAF	J1- LG05 Lower Floor	Cold Room Lab	Deep Freezer (-4° C)	Celfrost (-4° C)	Celfrost freezer Temperature Range: -4°C	
11	AFAF	J1- LG05 Lower Floor	Cold Room Lab	Deep Freezer (-20° C)	Celfrost (-20° C Deep Freezer)	Celfrost Vertical freezer Temperature Range: -20°C	
13	AFAF	J1- LG11A Lower Floor	Omega Lab	Spectrophotometer	Labman	Portable Spectrophotometer Display: LCD Multi functions operated directly on the spectrophotometer and display the test results' curve and data: wavelength scanning, standard curve, kinetics, multi wavelength scanning, DNA/protein test etc.	
14	AFAF	J1- LG11A Lower Floor	Omega Lab	Rotary Evaporator	BR BIOCHEM LIFE SCIENCES PVT.LTD	Rotary Evaporator Large LED display to easily set and monitor process parameters The touch keys and adjustable knob let you easily set the rotation speed, heating temperature, operation time, and cycle times (clockwise and/or counterclockwise cycles)	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
12	AFAF	J1- LG11A Lower Floor	Omega Lab	Refrigerator	Samsung	Refrigerator Frost Free 394 Ltrs.	
18	AFAF	J1- G04 Ground Floor	GC and HPLC Lab	Laminar Airflow	HMG India	Laminar Airflow Facility	
35	AFAF	J-1 LG	Plant tissue culture lab	High Speed Centrifuge	REMI / PR 24	Control Type Digital Power Supply 220V AC 50Hz Capacity (Ltr) 24 liters Milliliter (mL) Voltage 220V Volt (v) Usage Industrial Accuracy 0.1% Color Sliver Display Type LED Shape Rectangular Power 750W Features High-speed operation Digital control Compact design Material Stainless Steel and ABS Dimension (L*W*H) 30 x 25 x 35 cm Millimeter (mm) Type Tabletop Centrifuge Speed Range 500-24000 RPM	
35	AFAF	J-1 LG	Plant tissue culture lab	High Speed Centrifuge	REMI / R 23	Temperature Resistance Up to 70C Accuracy 0.1% Dimension (L*W*H) 320x290x400 mm Millimeter (mm) Display Type Digital Speed Range 0-20000 RPM Shape Rectangular Type Bench-top Voltage 220-240V Volt (v)	




AMITY INSTITUTE OF NEUROPSYCHOLOGY & NEUROSCIENCES (AINN)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
1	AINN	J-1 SF-221	AINN Lab	Spectrophotometer Type 117 with Laptop	Systronics (117)	<p>Optics: Holographic Diffraction Grating of 1200 Lines/mm blazed at 250nm.</p> <p>Wavelength Range: 200 to 1100nm.</p> <p>Photometric Range: 0-2.5 A</p> <p>Measuring Modes: % Transmittance (%T), Absorbance (ABS), Concentration (CONC) by K-factor and Multistandards.</p> <p>Operating Modes: Single Wavelength, Multi Wavelength, Spectrum Scan, Time Scan.</p>	
2	AINN	J-1 SF-221	AINN Lab	PCR	Agilent Technologies (Sure Cyclor 8800)	<p>Maximum Block Ramp Rate: 96 well block 6° C/sec 384 well block 4° C/sec</p> <p>Full Touch Screen: 7 inches 800 x 480 Full Touch Screen: 7 inches 800 x 480</p> <p>Dimensions: 17x11x11"</p> <p>Weight: 30lbs</p> <p>Power: 100-240 V, 50/60 Hz, 11 A</p>	
3	AINN	J-1 SF-221	AINN Lab	Neya 16R Cooling Centrifuge	REMI (NEYA 16R) + rotor + adapter tube	<p>Maximum speed: 16000 rpm</p> <p>Maximum RCF: 21000 g</p> <p>Lowest Temperature: -10°C</p> <p>Ambiant temperature: 2°C to 40°C</p> <p>Relative humidity: Upto 50% at 40°C</p> <p>Accel/Decel. Profiles: 0-9 steps</p>	




AMITY INSTITUTE OF NEUROPSYCHOLOGY & NEUROSCIENCES (AINN)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
4	AINN	J-1 SF-221	AINN Lab	Power Supply	TARSONS (7090)	<p>Model: TARSONS (7090) Voltage Output: Up to 300 Volts Current Output: Up to 400 mA Power Output: Maximum 80 Watts Display: Digital interface for easy monitoring Usage: Compatible with both Submarine and MiniVertical electrophoresis units Operation Modes: Can operate under constant voltage or constant current modes Timer Functionality: Time can be set in 1-minute increments or run in continuous mode</p>	
5	AINN	J-1 SF-221	AINN Lab	Mini Dual Vertical Electrophoresis Unit	TARSON (7080)	<p>Mini dual electrophoresis unit for two slabs gel 10x8 cm. The unit includes buffer chamber safety lid with cables two alumina notched plates. 10 glass plates, 2 ten well 1 mm thick combs, 4 spacers of 1 mm thickness and dualgel caster.</p>	
6	AINN	J-1 SF-221	AINN Lab	Mini Submarine electrophoresis Unit	TARSON (7020)	<p>Base foot print (L X W X H) 26 x 12 x 6.5 cm Buffer volume 260 - 320 ml Base gel size 7 x 7 cm Gel tray size 7 x 7 cm or 7 x 10 cm Banana plugs Gold plated brass Electrodes Platinum Electrical cables Tinned copper PVC insulated cable with flame retardent polyurethane jacket Maximum voltage limit 150 VDC Maximum power limit 10 W Maximum buffer temperature</p>	




AMITY INSTITUTE OF NEUROPSYCHOLOGY & NEUROSCIENCES (AINN)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
7	AINN	J-1 SF-222	AINN Lab	Autoclave (A1)	RELITECH	Vertical autoclave radial looking Range of PSI 0-35 Easy to use	
8	AINN	J-1 SF-221	AINN Lab	Shaker Rotary 16 Flask	RELITECH	Orbital Shaker Rotary 16 Flask of 250ml Automation Grade: Automatic Operating Voltage: 220 - 240 Volts Designed for continuous shaking of solutions	
9	AINN	J-1 SF-204	AINN Lab	Autoclave (A2)	Indigenous	Range of PSI 0-35 Vertical Autoclave Durable Easy to use	




AMITY INSTITUTE OF NEUROPSYCHOLOGY & NEUROSCIENCES (AINN)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
10	AINN	J-1 SF-206	AINN Lab	Deep Freezer -20°C	Celfrost (CF300)	Capacity: 210 LTR Temperature: -24°C Operation Type: ELECTRIC Fuel Type: ELECTRICITY Refrigeration Refrigerant : R600a Refrigeration Cooling Style: STATIC	
11	AINN	J-1 SF-221	AINN Lab	Refrigerator	Whirlpool (FF2D258C/2020)	Neofresh Roy Whirlpool Refrigerator 245L, -4°C	
12	AINN	J-1 SF-221	AINN Lab	MS-24 Stereomicroscope (M2)	Magnus (MS-24)	Objective Lenses: 2X and 4X Visual Field (mm): 2X: 11.5, 4X: 5.7 Working Distance: 105 mm Diopter Adjustment: +/- 5 diopter Eyepiece: High Eyepoint Super Widefield SWH 10X with a field number of 23	




AMITY INSTITUTE OF NEUROPSYCHOLOGY & NEUROSCIENCES (AINN)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
13	AINN	J-1 SF-204	AINN Lab	TR Plus Compound Microscope (M1) + Magcam Camera DC - 5	Magnus (MLX-TR Plus)	<p>Illumination system: Halogen bulb 6V/20W Focusing Mechanism: Coaxial coarse/fine focus adjustment , Coarse/fine knob stroke: 22mm Observation: Binocular, Tube inclination angle 45° Stage with mechanical specimen holder lever Condenser: N.A 1.25 (when immersed in oil) Aperture iris diaphragm: iris diameter 1.7 to 30mm Eye Piece: Magnification field No. 10±5%</p>	
14	AINN	J-1 SF-204	AINN Lab	Microtome	Radical Scientific (RMT-20)	<p>Type: Rotary Microtome Application: Suitable for medical institutions, research & pathological laboratories, and industrial use (plastic, leather, textiles, rubber, fertilizer) Feed Adjustments: 1-25 µm Minimum Section Thickness: 1 µm Total Feed Excursion: 28 mm Dimensions: 30 x 33 x 28 cm Net Weight: 25 kg (approx.) Gross Weight: 35 kg (approx.) Knife Holder: Rotating knife clamp for adjustable angles Specimen Movement: Smooth and accurate with independent vertical travel</p>	
15	AINN	J-1 SF-221	AINN Lab	Electrotransfer Mini System Gel	Genei	<p>Use for transfer of proteins / nucleic acids from gel to PVDF / Nylon Membrane ion western blotting & other blotting systems.</p>	




AMITY INSTITUTE OF NEUROPSYCHOLOGY & NEUROSCIENCES (AINN)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
16	AINN	J-1 FF-115	AINN Lab	Mini Centrifuge	D-LAB (D100)	Rotor Capacity 8 place closed rotor for 1.5/2.0ml microtubes Speed RPM / RCF (g) 6000/2000 g Noise Level \leq 55 dB Power Supply Universal (95 to 230V, 50/60Hz) Dimensions (WxDxH) in mm 162 x 157 X 115 mm Rotors and Adaptors (included in standard pack) 8 Slot x 1.5/2.0ml Closed Rotor PCR Strip Rotor (2 x 8 x 0.2 ml) Reduction Adaptors for 0.2 / 0.4 ml microtubes	
17	AINN	J-1 SF-206	AINN Lab	Radial ARM Maze for Rat (8 ARM)	Gentech	Made of thick acrylic Arm Length 50cm Arm Width 10cm Arm Wall Height 13cm Standard color black Weight 25kg Nos. of arms 8	
18	AINN	J-1 SF-206	AINN Lab	Morris Water Maze Apparatus	Gentech	The Morris water maze (MWM) is a behavioral test used to assess spatial learning and memory in small animals such as rats	



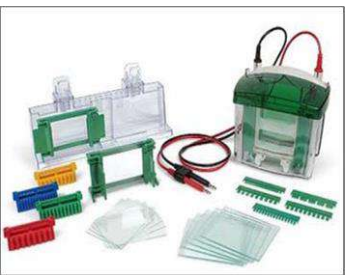
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S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
19	AINN	J-1 SF-206	AINN Lab	Camera stand gen local (steel)	Indigenous	For Radial ARM Maze for Rat (8 ARM)	
20	AINN	J-1 SF-221	AINN Lab	Band W USB 2.0 Camera	Gentek (60516)	Type: Digital USB 2.0 CMOS Camera Application: Ideal for video tracking and neuroscience applications Frame Rate: 76 frames per second Resolution: 744 × 480 pixels Image Sensor: 1/3 inch CMOS sensor USB Connection: USB 2.0 (no separate power connection required)	
21	AINN	J-1 SF-220A	AINN Lab	Dual Lab Standard Stereotaxic Instrument (RAT) (Part No. 51603)	Stoelting / Gentch (Part No. 51603)	The stereotaxic instrument is equipped with a ready-to use warning system. The Integrated Warmer: * Maintains body temperature * Improves surgical outcomes * Prevents cross contamination * Has a minimal footprint * Is easy to clean	




AMITY INSTITUTE OF NEUROPSYCHOLOGY & NEUROSCIENCES (AINN)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
22	AINN	J-1 SF-222 (Room2)	AINN Lab	Fan Filter Unit	Aerius (IM07379)	Maintained class-100 or ISO Class-5 Air Velocity of the order 90 FPM 20% at the Hepa filter The Noise level shall be less than 65 dbA.	
23	AINN	J-1 FF-115	AINN Lab	Trinocular Microscope + Camera for Stereo Microscope (DS-5)	Magnus (DS-5)	stereo microscope designed to bring greater flexibility and performance to work stations. With the option of top & bottom halogen or LED illumination, and highly ergonomic stand. This microscope is perfect for Biological & Industrial use. Optical Body: Trinocular Body Zoom Ratio: 17 Objective Zoom Range: 0.65x-4.5x Eyepieces SWF 10x/22mm (High eye-point Super Widefield Eyepieces)	
24	AINN	J-1 SF-221	AINN Lab	Weighing Balance (WB1)	Wensar (MAB220T)	Electro magnetic force compensation touch Screen display Percentage Weighing Multiple Weighing Units Density determination function RS =232C Interface, time & date counting weighing Model underhook weighing Calibration with internal weight	




AMITY INSTITUTE OF NEUROPSYCHOLOGY & NEUROSCIENCES (AINN)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
25	AINN	J-1 FF-115	AINN Lab	Cooling Incubator	QST (QBI 8450C)	Model: QBI 8450C 170 Ltr, Make QST Safety thermostat to prevent overheating; Audio visual alarm warning of Temperature variation; High voltage safety cutoff for unit protection; Plexi glass inner door to inspect specimens.	
26	AINN	J-1 FF-115	AINN Lab	Shaker Incubator	QST (HC-02)	Model: QBI 1010, Make QST User-friendly control panel; Lab Companion's unique VFD-bright, clear, and easy to read; Durable membrane touch switch and control knob; Easy-set digital timer	
27	AINN	J-1 SF-222	AINN Lab	Mini-Protein® Tetra Vertical electrophoresis	BIO-RAD	Number of gels: 1-4 Cell (tank and lid with power cables): 1 Companion module (to run up to 4 gels): 1 10-well combs: 5 1.0 mm spacer plates (5 plates per box): 1 box Short plates (5 plates per box): 1 box Casting stands: 2 Casting frames: 4 Precast gels: Mini-PROTEAN or Ready Gel® precast gels Handcast gels: Handcast using Mini-PROTEAN glass plates Total buffer volume for 2 gels, ml: 800 Total buffer volume for 4 gels, ml: 1,000 Recommended power supply: PowerPac™ Basic, PowerPac HC (high	




AMITY INSTITUTE OF NEUROPSYCHOLOGY & NEUROSCIENCES (AINN)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
28	AINN	J-1 SF-222	AINN Lab	PowerPac™ Basic Power Supply	BIO-RAD (PowerPac™ Basic)	<p>IM =-09530-PowerPac™ Basic Power Supply make Bio-Rad</p> <p>Use of controlled Electric Power supply for Mini-Protein ® Tetra Vertical electrophorsis.</p> <p>Nucleic acid gel electrophoresis; Protein gel electrophoresis; Programming in a compact, stackable case; Timer control and constant voltage or constant current output.</p>	
29	AINN	J-1 FF-115	AINN Lab	Biosafety Cabinet	QST (AC2-35-A2)	<p>Model No. QST -AC2-3S-A2</p> <p>Biosafety Cabinet for cell culture class II</p> <p>IM-10777 - Biosefty cabinet for cell culture 4 ft class II type A with digital controller make QST _quest scientific tech.</p>	
30	AINN	J-1 SF-221	AINN Lab	Double Distillation (Assembly) + DAPS Controller	BOROSIL	<p>Borosilicate Boiler B-45 Size with Stand</p> <p>Quartz New Type Heater B-45 size</p> <p>B-34 Condenser</p> <p>Silicone Tubing</p> <p>Electrical Plug & Wire</p> <p>Electrical requirment is 2.0 Kw. Hence one 3 pin 15amps socket capable to take 2.0 KW load.</p> <p>Temperature Control</p> <p>Automatic Power cut On / Off</p>	




AMITY INSTITUTE OF NEUROPSYCHOLOGY & NEUROSCIENCES (AINN)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
31	AINN	J-1 SF-222	AINN Lab	Water Jacketed CO ² Incubator + 2 cylinder + 2 regulator	Thermo Scientific (3111)	<p>IM-10860, Water Jacketed Co2 Incubator Thermo Scientific Series II with S.S Chamber and TC Co2 sensor with Co2 Gas guard with Co2 Gas guard part No 3111 with 2 Nos Co2 Cylinder and regulator and 3 kva servo stablizer.</p> <p>Temperature Control ± 0.1 °C</p> <p>CO2/O2 Control better the $\pm 0.1\%$</p> <p>HEPA Filter: Federal standard 209E.</p> <p>Water Jacket Volume 11.7 gal. (44.3 ltr.)</p> <p>Interior Volume 184.1 ltr.</p> <p>Weight: 120.2 kg</p>	
32	AINN	J-1 SF-222 (Room2)	AINN Lab	Servo Stabilizer (03KVA) Co2 Incubator	ITA	For Biosafety Incubator	
33	AINN	J-1 SF-222 (Room2)	AINN Lab	Refrigerator (F2)	LG (GL-B1990PZD/2023)	<p>Type: Direct Cool Single Door Refrigerator</p> <p>Capacity: 185 liters</p> <p>Energy Rating: 3 Star (energy-efficient)</p> <p>Compressor: Conventional compressor for silent operation</p> <p>Cooling Technology: Fast ice-making feature</p> <p>Special Features: Antibacterial Gasket for hygiene maintenance, Stabilizer-Free Operation (works within 135V - 290V range), Eco-Friendly Refrigerant for reduced environmental impact</p>	




AMITY INSTITUTE OF NEUROPSYCHOLOGY & NEUROSCIENCES (AINN)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
34	AINN	J-1 SF-204	AINN Lab	Servo Stabilizer (05 KVA) (For Minus 80 Refrigerator)	ITA	Capacity: 5 KVA Input Voltage Range: 170V - 270V (Single Phase) / 360V - 460V (Three Phase) Output Voltage: 230V (Single Phase) / 415V (Three Phase) Voltage Regulation: $\pm 1\%$; Frequency: 47 - 53 Hz; Cooling Method: Air-cooled; Efficiency: $>98\%$; Control System: IC-based digital circuit; Protection Features: Overload protection, Short-circuit protection, Under/over-voltage cut-off, Surge protection; Display: Digital	
35	AINN	J-1 SF-204	AINN Lab	Minus 80 °C Deep Freezer	Thermo Scientific (902GP)	Capacity 17.3 cu ft, 489.9 L Interior Dimensions 22x25x51" Exterior Dimensions 36x39x78" Temperature Range -50° to -86°C Power 120V, 60 Hz, 16A Weight 795 lbs	
36	AINN	J-1 SF-222	AINN Lab	Platform Rocker	Genei™ (LI-GR-E-100)	Application: Ideal for gel staining, culture aeration, and western blotting Platform Size: 25 cm x 25 cm Maximum Speed: 20 rpm Motor Type: DC motor for smooth operation Power Supply: 230V, 50 Hz AC	




AMITY INSTITUTE OF NEUROPSYCHOLOGY & NEUROSCIENCES (AINN)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
37	AINN	J-1 SF-222	AINN Lab	MiniTrans-Blot Electrophoretic Transfer C	BIO-RAD (1658029FC)	Construction Electrode module Gel holder cassettes Electrodes Buffer chamber and lid Cooling unit Overall dimensions Mini Trans-Blot cell Gel holder dimensions Maximum gel size Buffer capacity With cooling unit Without cooling unit Cleaning Chemical compatibility Molded polysulfone Molded polycarbonate Platinum wire 0.254 mm diameter Molded polycarbonate Polyethylene 16 (L) x 12 (W) x 18 (H) cm 10 x 11 cm 7.5 x 10 cm 950 ml 1,150 ml	
38	AINN	J-1 SF-222 (Room2)	AINN Lab	Trinocular Inverted Microscope (M3)	Nikon - Ts2 FL (LED)	For Brightfield, Phase contrast & EMBOSS Microscopy Along with digital camera attachment	
39	AINN	J-1 SF-222 (Room2)	AINN Lab	Cryocan Kit	-	To Prevent heat transfer	


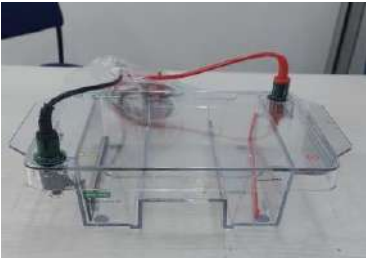

AMITY INSTITUTE OF NEUROPSYCHOLOGY & NEUROSCIENCES (AINN)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
40	AINN	J-1 SF-206	AINN Lab	Cryostat	Epredia (HM525 NX UV)	<p>Certifications/Compliance CSA, CE Sectioning Range 5 to 500µm Depth (English) 25.19 in. Height (English) 45.3 in. Chamber Temperature -35°C +/-3°C Max. at +20°C Room Temperature Weight (Metric) 143 kg Defrost Programmed/Immediate Trim Section Resolution 5 to 30µm in 5µm steps; 30 to 100µm in 10µm steps; 100 to 200µm in 20µm steps; 200 to 500µm in 50µm steps Depth (Metric) 760 mm Height (Metric) 1150 mm Weight (English) 315.2 lb.</p>	
41	AINN	J-1 SF-221	AINN Lab	pH Meter (pH2)	Labtronics	<p>Type: Digital Microprocessor-based pH Meter Application: Used for precise pH measurement in laboratories, research, and industrial applications pH Range: 0.00 to 14.00 Resolution: 0.01 pH Accuracy: ±0.01 pH Calibration: 3-point calibration with auto buffer recognition Display: 16 x 2 alphanumeric LCD Temperature Compensation: Auto/manual (0 to 100°C) Power Supply: 230V AC, 50Hz</p>	
42	AINN	J-1 SF-221	AINN Lab	Hot plate magnetic stirrer (MS1)	Neuation	<p>Type: Digital hot plate stirrer Application: Ideal for laboratory mixing and heating applications Stirring Capacity: Up to 20 liters Speed Range: 200 - 2200 RPM Temperature Accuracy: ±1°C (in probe mode) Set-up Plate Material: Nano crystal full ceramic top plate</p>	





AMITY INSTITUTE OF NEUROPSYCHOLOGY & NEUROSCIENCES (AINN)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
43	AINN	J-1 SF-204	AINN Lab	Refrigerator (F3)	Samsung (RT34T4512S8/HL/2022)	For laboratory use Net Total (Liter) 324 ℓ, Net Width(cm) 55.5 cm, Net Case Height with Hinge(m) 1.54 m, Net Depth with Door Handle(cm) 68.8 cm, Net Weight 52 kg	
44	AINN	J-1 SF-222 (Room2)	AINN Lab	CENTRIFUGE R8C PLUS	REMI (R8C PLUS)	Type: Bench-top laboratory centrifuge Application: Suitable for medical, hospital, pathology, and institutional laboratories Motor Type: Brushless induction motor with variable frequency drive Speed Range: Up to 6000 RPM Maximum RCF: 5070 g Capacity: Up to 400 ml Control System: Microprocessor-based with digital display Safety Features: Automatic rotor identification for operator safety, Stainless steel centrifuge chamber for easy cleaning, Safety lid interlock to prevent cover opening during operation, Imbalance detection with automatic shutdown, Low sample temperature rise	
45	AINN	J-1 SF-222 (Room2)	AINN Lab	Vaccum pump	Indigenous	Vaccum pump	





AMITY INSTITUTE OF NEUROPSYCHOLOGY & NEUROSCIENCES (AINN)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
46	AINN	J-1 SF-221	AINN Lab	Vortex Mixture 2 (V2)	Neuotion (iSWIX)	Type: Digital vortex mixer Application: Used for laboratory sample mixing Speed Range: 300 - 4200 RPM Orbital Diameter: 4 mm Motor Type: Brushless DC motor Speed Accuracy: ±10 RPM Load Capacity: Up to 500 g Modes: Touch, Stand-by, and Continuous Timer Setting: 1 - 999 minutes Display: Digital screen showing speed and time Safety Features: Spill-resistant IP21 design	
47	AINN	J-1 SF-222	AINN Lab	Wide mini Subcell GT Horizontal	BIO-RAD	The variety of submerged horizontal electrophoresis cells that are ideal for DNA gel electrophoresis. All cells include components for casting gels. The Mini-Sub® cell GT and wide Mini-Sub cell GT DNA electrophoresis systems can be used with ReadyAgarose precast gels.	
48	AINN	J-1 SF-206	AINN Lab	Rotarod for RATS	Indigenous	For RATS	




AMITY INSTITUTE OF NEUROPSYCHOLOGY & NEUROSCIENCES (AINN)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
49	AINN	J-1 SF-221	AINN Lab	Shaking Water Bath (WB2)	Tubatech	Temperature range - Ambient+5°C to 99°C Temperature controller-Digital PID controller with SV & PV Temperature sensor PT100	
50	AINN	J-1 SF-221	AINN Lab	Weighing Balance (WB3)	Wensar (R7-800)	For Weighing purpose	
51	AINN	J-1 SF-206	AINN Lab	T-Maze	Indigenous	T-Maze for zebrafish	
52	AINN	J-1 SF-206	AINN Lab	Desktop With UPS	AUNDT-8983 (Desktop) AUNVOF3678 (UPS)	Desktop With UPS	




AMITY INSTITUTE OF NEUROPSYCHOLOGY & NEUROSCIENCES (AINN)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
53	AINN	J-1 SF-206	AINN Lab	Desktop With UPS	AUNDT-9228 (Desktop) AUNUOF4309 (UPS)	Desktop With UPS	
54	AINN	J-1 SF-222 (Room2)	AINN Lab	Desktop With UPS	AUNDT - 10813 (Desktop) AUNUOF4472 (UPS)	Desktop With UPS	
55	AINN	J-1 SF-206	AINN Lab	Brain Slice & Tissue Chamber with PTC04 + Carbogen Gas Cylinder with Regulator	BRAIN SLICE PTC04	The chamber is constructed from a cylindrical block of acrylic, with an upper chamber and mounted on a base-plate of the same material for securing on to a table. The diameter is 100mm, height is 85mm, base plate diameter is 130mm.	
56	AINN	J-1 SF-221	AINN Lab	Mini Centrifuge	REMI (RM-02 Plus)	Rotor Capacity 8 place closed rotor for 1.5/2.0ml microtubes Speed RPM / RCF (g) 3000 RPM Noise Level ≤ 55 dB Power Supply Universal (95 to 230V, 50/60Hz) Dimensions (WxDxH) in mm 162 x 157 X 115 mm Rotors and Adaptors 8 Slot x 1.5/2.0ml Closed Rotor PCR Strip Rotor (2 x 8 x 0.2 ml) Reduction Adaptors for 0.2 / 0.4 ml microtubes	




AMITY INSTITUTE OF NEUROPSYCHOLOGY & NEUROSCIENCES (AINN)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
57	AINN	J-1 SF-222	AINN Lab	Hot Plate (HP2)	Indigenous	Temperature Range: Ambient + 10°C to 320°C Heater Power: 2000W Voltage: 230V AC Control Type: Analogue dial for temperature setting, sensitive to ±10°C @ 150°C	
58	AINN	J-1 SF-204	AINN Lab	Ice Machine	Celfrost (LC15BW)	Type: Ice Cube Maker Application: Ideal for bars, restaurants, and commercial kitchens Production Capacity: 15 kg per 24 hours Ice Form: Cube/Dice Cooling System: Air-cooled Refrigerant: R134A Body Material: Stainless steel	
59	AINN	J-1 SF-221	AINN Lab	Servo Stabilizer (2KVA)	ALCOM	Type: Single-phase servo-controlled voltage stabilizer Capacity: 2KVA Input Voltage Range: 140V - 270V AC Output Voltage: 230V AC (adjustable) Voltage Regulation: ±1% Efficiency: >98% at full load Frequency: 47 - 63 Hz Cooling Method: Air-cooled Control System: Microprocessor-based digital control Protection Features: Overload protection, Short-circuit protection, Under/over-voltage cut-off, Surge suppression, Single-phase prevention Display: Digital LCD showing input/output voltage and load current	




AMITY INSTITUTE OF NEUROPSYCHOLOGY & NEUROSCIENCES (AINN)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
60	AINN	J-1 SF-204	AINN Lab	Mini Projector	AAXA technologies (M7 mini led projector)	Type: Portable DLP projector Resolution: Native 1080p (accepts 4K input) Brightness: 1200 LED lumens (plugged in) / 650 LED lumens (battery mode) Contrast Ratio: 2000:1 Throw Ratio: 1.2:1 (short throw optics) Image Size: Up to 200 inches Focus: Electronic focus adjustment Keystone Correction: Auto vertical keystone with manual control Lamp Life: 30,000 hours (Quad-Cast LED technology) Battery: 15,000mAh lithium-ion (up to 3 hours runtime) Connectivity: HDMI input, USB media playback, TF card slot, 3.5mm audio out, USB-C screen mirroring, Power Consumption: 72W (100V - 240V)	
61	AINN	J-1 SF-204	AINN Lab	Wooden camera vertical	Indigenous	For laboratory use	
62	AINN	J-1 SF-204	AINN Lab	AC adaptor AC-EON DC Coupler DR-E18	Canon	For laboratory use	




AMITY INSTITUTE OF NEUROPSYCHOLOGY & NEUROSCIENCES (AINN)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
63	AINN	J-1 SF-204	AINN Lab	Canon camera for MC larva Imaging	Canon (EOS R50)	<p>Type: Mirrorless digital camera Sensor: 24.2MP APS-C CMOS Image Processor: DIGIC X ISO Range: 100 - 32000 (expandable to 100 - 51200) Autofocus System: Dual Pixel CMOS AF II with 651 autofocus zones Continuous Shooting: Up to 15 fps (electronic shutter) Video Recording: 4K at 30fps (6K oversampled), Full HD at 120fps Viewfinder: 2.36M-dot electronic viewfinder LCD Screen: 3.0-inch fully articulated touchscreen Storage: Single SD/SDHC/SDXC card slot (UHS-I support)</p>	
64	AINN	J-1 SF-220A	AINN Lab	Refrigerator	Samsung (RT51CG662AS9TL / 2023)	<p>Type: Frost-Free Double Door Refrigerator Capacity: 465 liters Energy Rating: 1 Star Compressor: Digital Inverter Compressor (energy-efficient & low noise) Cooling Technology: All-round cooling with Optimal Fresh+ feature Convertible Modes: Normal, Extra Fridge, Seasonal, Vacation, Home Alone Shelf Type: Toughened Glass Shelves Special Features: SmartThings AI Energy Mode for optimized power consumption, Anti-Bacterial Gasket for hygiene maintenance</p>	
65	AINN	J-1 SF-220A	AINN Lab	UV Sterilising table-top Chamber	Life Clave	UV Sterilising table-top Chamber	




AMITY INSTITUTE OF NEUROPSYCHOLOGY & NEUROSCIENCES (AINN)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
66	AINN	J-1 FF-115	AINN Lab	Vertical Laminar Air Flow	QST	<p>ELECTRONIC INTERFACE PC/Laptop : USB-3.0 for Win & Mac USB-2 for Win & Mac</p> <p>Power Supply : 5V DC Via PC USB PORT 5V DC Via USB-2</p> <p>Operating Temp : 10 Degree C to +50 Degree C</p>	
67	AINN	J-1 SF-222	AINN Lab	Vacuum controlled aspiration S	D-Lab (Safe-Vac)	<p>Engine Type: Lab Use Material: PP Flow Rate: 17 ml/s Vaccum: 600 mbar Aspirating Speed: 15 L/min Bottle: 4 L Input Voltage: 240 VAC</p>	
68	AINN	J-1 SF-222	AINN Lab	Mini-Protean Tetra Vertical electrophoresis cell with mini Trans-blot module	Biorad (1658029FC)	<p>Number of gels: 1-4 Cell (tank and lid with power cables): 1 Companion module (to run up to 4 gels): 1 10-well combs: 5 1.0 mm spacer plates (5 plates per box): 1 box Short plates (5 plates per box): 1 box Casting stands: 2; Casting frames: 4 Precast gels: Mini-PROTEAN or Ready Gel® precast gels Handcast gels: Handcast using Mini-PROTEAN glass plates Total buffer volume for 2 gels, ml: 800 Total buffer volume for 4 gels, ml: 1,000 Recommended power supply: PowerPac™ Basic, PowerPac HC (high current), PowerPac HV (high voltage), or PowerPac Universal Typical run time for SDS-PAGE: 35–45 min (at 200 V constant); Gel format: Mini; Buffer dam: 1</p>	




AMITY INSTITUTE OF NEUROPSYCHOLOGY & NEUROSCIENCES (AINN)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
69	AINN	J-1 SF-222	AINN Lab	PowerPac Basic Power Supply	Biorad - PowerPac Basic (1645050)	<p>IM =-09530-PowerPac™ Basic Power Supply make Bio-Rad</p> <p>Use of controlled Electric Power supply for Mini-Protein ® Tetra Vertical electrophoresis.</p> <p>Nucleic acid gel electrophoresis; Protein gel electrophoresis; Programming in a compact, stackable case; Timer control and constant voltage or constant current output.</p>	
70	AINN	J-1 SF-222	AINN Lab	UPS (1KVA)	Microtek (legend 1000)	<p>Capacity: 1000VA / 600W</p> <p>Input Voltage Range: 140V - 300V AC</p> <p>Output Voltage: 230V AC Nominal</p> <p>Frequency: 50Hz ± 10% (Input) / 50Hz ± 1Hz (Output)</p> <p>Waveform (Battery Mode): Modified Sine Wave</p> <p>Transfer Time: Typical 4~8ms</p> <p>Charging Time: 6 Hours (to recover 90% capacity)</p> <p>Protection Features: Overload, Discharge/Overcharge Protection</p> <p>Additional Features: Auto Restart, Cold Start Function, Off-Mode Charging</p>	
71	AINN	J-1 SF-222	AINN Lab	PCR	Biorad (T100 Thermal cycler)	<p>Temperature Accuracy: ±0.5°C of programmed target</p> <p>Temperature Uniformity: ±0.5°C well-to-well within 30 sec of arrival at target temperature</p> <p>Maximum Ramp Rate: 4°C/sec</p> <p>Average Ramp Rate: 2.5°C/sec</p> <p>Gradient Range: 30–100°C</p> <p>Temperature Differential Range: 1–25°C</p> <p>Input Power: 100–150 VAC, 50–60 Hz; 220–240 VAC, 50–60 Hz; 700 W maximum</p> <p>Display: 5.7" VGA color touch screen</p> <p>Port: 1 USB A</p>	




AMITY INSTITUTE OF NEUROPSYCHOLOGY & NEUROSCIENCES (AINN)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
72	AINN	J-1 SF-222	AINN Lab	Digital Wazter Bath	Labman (LMWB04)	<p>Capacity: 15 Litres Material: Stainless Steel Temperature Control: Digital temperature controller for precise settings Temperature Range: Adjustable as per requirement Power Supply: 220V AC Features: Steam leakage prevention, high-precision temperature control Additional Functions: Pointer-type and intellectual-type temperature controllers available</p>	
73	AINN	J-1 SF-222	AINN Lab	Hot Plate Magnetic Stirrer	Neutration (HP320)	<p>Set-up Plate Material: Ceramic Coated Stainless Steel Temperature Range: Ambient to 320°C (Safe temperature setting up to 345°C) Variable Speed: 200–2200 RPM (Adjustable in steps of 10 RPM) Run Time: 1–999 minutes & infinite mode Motor Type: Powerful DC Motor Display: Digital display for precise control Additional Features: Microprocessor controlled, PT1000 probe for accurate temperature measurement, small footprint for space efficiency Protection Class: IP 21</p>	
74	AINN	J-1 SF-222	AINN Lab	Vortex Mixer	Neutration (iSWIX JR VT NXT)	<p>Maximum Speed: 4200 RPM (Fixed) 2000–4200 RPM (Variable) Shaker Diameter: 4.5 mm Tube Diameter: Up to 30 mm Speed Accuracy: ±250 RPM Operation Type: Touch Protection Class: IP 43 Permissible Ambient Temperature: 4°C to 45°C Permissible Relative Moisture: <80% Noise Level: <50 dB Input Voltage: 100–240V AC, 50/60Hz Power Consumption: 52W</p>	




AMITY INSTITUTE OF NEUROPSYCHOLOGY & NEUROSCIENCES (AINN)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
75	AINN	J-1 SF-222	AINN Lab	AKTA start FPLC with Frac30 + Cooling Cabinet	Cytiva (29022094) + Voltas	Dimensions: 340 x 280 x 360 mm (WxDxH) Flow Rate: Operating range of 0.5 to 5 ml/min, with a wash flow rate of up to 10 ml/min Electrical Requirements: 100 to 240 VAC, 50 to 60 Hz UV Monitor: Single wavelength at 280 nm ± 3 nm Software: Controlled via UNICORN start software for method creation, real-time monitoring, and data analysis Fraction Collector: Frac30, supporting tube sizes from 1.5 mL to 15 mL	
76	AINN	J-1 SF-222	AINN Lab	HP Z2 TWR Workstation G9 IDS (01)	HP (4N3U8AV)	5 yr warranty processor, core-i9, 13900k (3.00 Ghz, 24 core, 36mb); RAM 64 GB (2X32 GB) DDR5	
77	AINN	J-1 SF-222	AINN Lab	HP Z2 TWR Workstation G9 IDS (02)	HP (4N3U8AV)	5 yr warranty processor, core-i9, 13900k (3.00 Ghz, 24 core, 36mb); RAM 64 GB (2X32 GB) DDR5	


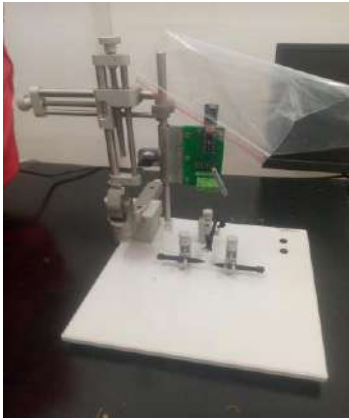

AMITY INSTITUTE OF NEUROPSYCHOLOGY & NEUROSCIENCES (AINN)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
78	AINN	J-1 SF-222	AINN Lab	Incubator Shaker	Exome Innovation (E IPL-SI-001)	For laboratory use	
79	AINN	J-1 SF-222	AINN Lab	3 KVA UPS online	202404-110877	Input: 120 270 50 Hz depending on load Output: 208 240V 50 Hz plus minus 5%	
80	AINN	J-1 SF-222	AINN Lab	Vortex Mixture 3 (V3)	Neuation (iSWIX JR VT NXT)	Maximum Speed: 4200 RPM (Fixed) 2000–4200 RPM (Variable) Shaker Diameter: 4.5 mm Tube Diameter: Up to 30 mm Speed Accuracy: ±250 RPM Operation Type: Touch Protection Class: IP 43 Permissible Ambient Temperature: 4°C to 45°C Permissible Relative Moisture: <80% Noise Level: <50 dB Input Voltage: 100–240V AC, 50/60Hz Power Consumption: 52W	




AMITY INSTITUTE OF NEUROPSYCHOLOGY & NEUROSCIENCES (AINN)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
81	AINN	J-1 SF-222	AINN Lab	Microplate Shaker	Neuation (iSHAK BL UNO VT)	<p>Speed Setting: 300 to 1800 RPM Orbital Diameter: 2 mm Motor Type: Brushless DC Motor (BLDC) Timer Setting: 1 to 180 minutes & infinite mode Digital Display: Yes Inbuilt Counterbalance: Yes Attachments: Replaceable clamps for different types of standard microplates Additional Features: Compact footprint, suitable for use in cold rooms/incubators, spill-free loading</p>	
82	AINN	J-1 SF-222	AINN Lab	Mini Centrifuge	Eppendorf (RM02 plus)	<p>Maximum Speed: 6000 RPM Maximum RCF: Approximately 4000 x g</p>	
83	AINN	J-1 SF-222	AINN Lab	Homogenizer	REMI (RQT-127D)	<p>Type: Digital Homogenizer Stirring Shaft Diameter & Length: 8 mm x 250 mm Impeller Type: Saw Cutter (30 mm) Motor: AC/DC 1/8 HP Speed Range: 300 - 6000 RPM Stirring Capacity: Up to 8 Liters Fluid Compatibility: Water Digital Speed Indicator: Yes</p>	





AMITY INSTITUTE OF NEUROPSYCHOLOGY & NEUROSCIENCES (AINN)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
84	AINN	J-1 SF-220A	AINN Lab	S9i Stereomicroscope	Leica (S9i Stereomicroscope)	Visualization during stereotaxic surgery	
85	AINN	J-1 SF-220A	AINN Lab	Just for mouse stereotaxic instruments	Stoelting (Part No. 51730)	<p>Designed for: Knock-out and transgenic mice</p> <p>Manipulator Arm: 3-axis left-hand manipulator arm</p> <p>Accuracy: 100 microns (Non-Digital), 10 microns (Digital), 1 micron (Motorized)</p> <p>Head Holding System: Mouse snout clamp, tooth bar, dual-sided ear bars</p> <p>Base Compatibility: Integrated warming base (requires Rodent Warmer Control Box)</p> <p>Positioning System: Triple lead screw for fast positioning</p> <p>Footprint: 25 cm × 25 cm</p> <p>Additional Features: Gas anesthesia compatibility, digital LED display (Digital models), software and motor control (Motorized models)</p>	
86	AINN	J-1 SF-220A	AINN Lab	Table top anesthesia system	EZ (SA800)	<p>Anaesthesia of mice using isoflurane during in vivo electrophysiology</p> <p>Anesthetic Compatibility: Isoflurane (0-5%) and Sevoflurane (0-8%)</p> <p>Carrier Gas: Oxygen or Air</p> <p>Flow Rate: 0 - 4 LPM</p> <p>Number of Outputs: 5 (Induction chamber + up to four breathers)</p> <p>Flow Meter Configuration: Two flow meters for precise control</p> <p>Oxygen Flush: Pushbutton purge for induction chamber</p> <p>Portability: Carry handle for easy transport</p> <p>Additional Features: Heated surgery beds, exhaust cube for waste gas management, optional anesthesia stand</p>	




AMITY INSTITUTE OF NEUROPSYCHOLOGY & NEUROSCIENCES (AINN)





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
87	AINN	J-1 SF-220A	AINN Lab	In vivo electrophysiology acquisition device	Intantech	Technical specifications: for in vivo recordings	
88	AINN	J-1 SF-220A	AINN Lab	Digital Soldering station	Weller (WE1010NA)	Power: 85 W Voltage: 120 V Temperature Range: 100 - 450 °C (200 - 850 °F) Temperature Accuracy: ±5 °C (±9 °F) Temperature Stability: ±6 °C (±10 °F) Heating Time: Approx. 28 seconds (50–350 °C) Soldering Iron: WEP 70 (70 W) with ergonomic handle Tip Type: ET series Safety Features: ESD-safe station, heat-resistant silicon cable Additional Features: Standby mode, auto setback, password protection	
89	AINN	J-1 SF-220A	AINN Lab	LED Fiber optic illuminator-double light guide	Radical (Model FI-2L)	Light Source: High-intensity LED illumination Light Guide: Dual fiber optic light guides for flexible positioning Brightness Control: Adjustable intensity settings Color Temperature: Consistent white light output Cooling System: Efficient heat dissipation for prolonged operation Power Supply: Standard AC input with low power consumption Applications: Microscopy, precision inspection, and laboratory use	




AMITY INSTITUTE OF NEUROPSYCHOLOGY & NEUROSCIENCES (AINN)




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
90	AINN	J-1 SF-220A	AINN Lab	ACER desktop M200	ACER M200	I5/11TH/ 4GB/ 1TB/W11 PRO 21.5" LED/3Year/UXBH5SI520	
91	AINN	J-1 SF-220A	AINN Lab	Gas cylinder with regulator	Laser gases	Gas cylinder 10 LTR	
92	AINN	J-1 SF-220A	AINN Lab	3 KVA UPS Online	ALCOM (3KV UPS online)	Input Voltage: 220V/230V/240V AC (Single Phase) Operating Voltage Range: 90V - 300V AC (Load Dependent) Power Factor: 0.99 Output Voltage: 220V/230V/240V AC ±1% Output Frequency: 50/60 Hz (Auto Sensing) Efficiency: Up to 94% (Dual Conversion Mode), 99% (ECO Mode) DC Voltage: 96V Charge Current: 6A LCD Display: Input/Output Voltage & Frequency, Battery Voltage, Load %, Inverter Temperature, Fault Codes Protection Features: Overload, Short Circuit, Fan Failure, Battery Low	
93	AINN	J-1 SF-220A	AINN Lab	HP Workstation Z2 G9	HP Z2 G9 (6E7S2PA)	Core-I9 12 th gen 12900 32 GB DDR5 RAM, 512GB Nvme 1TB Sata Nvidia RTX 3060 12 GB graphics card win 11 pro DG to win 10 pro DVD	




Amity Institute of Pharmacy (AIP)




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
1	Amity Institute of Pharmacy	Block J1, Room No.- 208	Central Instrumentation Room	Semi Automatic Biochemistry Analyser	Elico/Semi Auto CL 380	<p>PHOTOMETRIC</p> <p>Range -0.5 to 2.5 Abs</p> <p>Readability 0.001 Abs</p> <p>Stability Drift not more than ± 0.005 Abs / hour after 1hr. of warm up time</p> <p>Linearity Better than 1%</p> <p>Noise 0.0008 Abs Pk-Pk</p> <p>5V, 5W,</p> <p>Light Source:-Miniature Halogen Lamp</p> <p>Detector:-Silicon Photodiode</p> <p>MEASUREMENT MODES:-Monochromatic and Bichromatic</p> <p>DISPLAY:-4X20 LCD dot matrix alphanumeric backlight display</p>	
2	Amity Institute of Pharmacy	Block J1, Room No.- 208	Central Instrumentation Room	HPLC	Shimadzu/SPD20A	<p>Solvent delivery method Parallel-type double plunger</p> <p>Flow-rate setting range 0.0001 to 10.0000 mL/min. low-rate accuracy No more than 1% or 0.5μL/min., whichever is greater (0.01 to 2 mL/min.)</p> <p>Light source Deuterium (D2) lamp</p> <p>Wavelength range 190 to 700 nm</p> <p>Wavelength accuracy 1 nm max.</p> <p>Wavelength precision 0.1 nm max</p> <p>Noise 0.5 X 10⁻⁵ AU (under specified conditions)</p> <p>Drift 1 X 10⁻⁴ AU/h (under specified conditions)</p> <p>Linearity 2.5 AU (ASTM standard)</p> <p>Functions Dual-wavelength detection in the range 190 to 370 nm and upwards of 371, ratio-chromatogram output, wavelength scanning</p> <p>Cell Optical wavelength: 10 mm, capacity: 12μL, withstand pressure: 12 MPa</p> <p>Power requirements 100 VAC, 160 VA, 50/60 Hz</p>	
3	Amity Institute of Pharmacy	Block J1, Room No.- 208	Central Instrumentation Room	UV Visible Spectrophotometer	Lab India	<p>Range : 190 - 1100 nm</p> <p>Bandwidth : 1 nm (fixed)</p> <p>Modes Of Operation : scanning, wavelength program, time-drive, rate, quant, scanning quant</p> <p>All version require, but do not include, a PC</p>	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
4	Amity Institute of Pharmacy	Block J1, Room No.- 208	Central Instrumentation Room	Automatic Biochemistry Analyzer	Erba/Chem 7	<p>Clinical Chemistry analyser, designed compactly. Suitable for small to medium sized laboratories so that the reporting is accurate and dependable.</p> <p>Open system having test programmable capacity of 200 and comes with 10 analytical modes, can be used for analyzing of hormones & coagulation tests.</p> <p>Unique triple cuvette facility, for faster operation there are 56 direct access keys, consumes low reagent. It has optional dry block incubator & battery pack for mobile use, QC monitoring is done and printer / keyboard are connected directly.</p>	
5	Amity Institute of Pharmacy	Block J1, Room No.- 317	Research Lab	Protein Sample Electrophoretic Visualization	Alphaimager EC	<p>Includes a wide range of fluorescent and colorimetric applications, but can also be expanded to chemiluminescence as laboratory needs change.</p> <p>Motorized Lens Allows direct control of aperture, zoom and focus through the software.</p> <p>Epi White Lights Assist when focusing and positioning samples.</p> <p>Dual-Wavelength Transilluminator Easily slides in and out of cabinet. High and low intensity settings provide additional illumination control.</p> <p>White Light Table For colorimetric applications such as Coomassie gels. Folds up when not in use.</p> <p>5-Position Filter Wheel Customizable for UV</p>	
6	Amity Institute of Pharmacy	Block J1, Room No.- 317	Research Lab	Electrophoresis Unit	CROWN	<p>Temperature range: 5-80°C</p> <p>Linear gradient:45°C</p> <p>Themoblock dimensions:20 x 20 cm</p> <p>Glass plate dimensions:23,5 x 23,5 cm</p> <p>Gel dimensions: 20 x 21,7 cm</p> <p>Separation distance:(perpendicular / parallel) 16 cm / 19 cm</p> <p>Sample numbers (volume) :32 x (5µl) 42 x (5µl), clean gels (846-024-240)</p>	
7	Amity Institute of Pharmacy	Block J-3, Room No.- LG-01	Machine Room	Cooling Centrifuge	Remi/C-24BL	<p>Max. Speed(rpm):20000</p> <p>Max. RCF'g':37570</p> <p>Max. Tube Size(ml):100</p> <p>Max. Capacity(ml): 400</p> <p>Lowest Temp.°C :-8</p>	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
8	Amity Institute of Pharmacy	Block J1, Room No.- 317	Research Lab	Mastercycler Gradient	eppendorf	<p>Sample capacity: 96 x 0.2 ml PCR tubes (unskirted, semi-skirted, skirted – according to SBS standard); Temperature control range of the block: 4 °C to 99 °C; Temperature control mode: Block control, (simulated) tube control; both also available in gradient operation mode</p> <p>Heating technology of the block: Peltier elements, Triple Circuit Technology</p> <p>Gradient block: Over 12 rows</p> <p>Gradient range: 1 °C to 20</p> <p>Heating rate*:ca. 4 °C/s</p> <p>Cooling rate*: ca. 3 °C/s</p> <p>Interfaces: 1 x Centronics, 1 x RS 232, Control panel, one each of CAN_in/ CAN_out</p> <p>Dimensions (W x D x H): 26 cm x 41 cm x 30.5 cm</p> <p>Weight: 17 kg</p> <p>Power supply, consumption: 120 V/ 230 V, 50–60 Hz; 800 W</p>	
9	Amity Institute of Pharmacy	Block J1, Room No.- 317	In Vitro Anti Cancer Lab	Laminar Flow Bench		<p>Wooden/M.S Duley Power Coated /Stainless Steel Body.</p> <p>Pre-Filter Blower (Motor Blower Assembly)</p> <p>U.V. Light, Fluorescent Lamp</p> <p>Operating Switch</p> <p>Pressure Gauge (Manometer)</p> <p>Stainless Steel Table Top</p> <p>High quality HEPA filter provides protection for the product (filtration efficiency of more than 99.999% at 0.3 micron.</p> <p>Ultra-quiet noise level of not more than 59 dBA.</p> <p>Durable and easy to clean stainless steel worktop.</p> <p>Cock for gas or vacuum line.</p> <p>Work area properly illuminated by diffused glare free</p>	
10	Amity Institute of Pharmacy	Block J1, Room No.- 317	In Vitro Anti Cancer Lab	CO2 Incubator	New Brunswick/ Galaxy 48S	<p>Volume 1.7 ft3 (48 L)</p> <p>Shelves 3</p> <p>Temperature control range: Ambient +4 to 50°C</p> <p>Display readout Temperature and CO2 level</p> <p>Stackable</p>	



S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
11	Amity Institute of Pharmacy	Block J1, Room No.- 317	In Vitro Anti Cancer Lab	Inverted Microscope	Magnus	<p>Viewing Head: Trinocular Head Inclined at 30°~ Interpupillary 48 - 75mm Eyepiece: High-point, Extra Wide Field Eyepiece EW10x/22 Objective: LWD Plan Infinity Objective- 4X/0.1 WD 18mm 40X/0.6 WD 2.6mm (Cover Glass 1.2mm) LWD Plan Infinity Phase Objective - PH10X/0.25 WD 10mm PH20X/0.4 WD 5.1mm Nosepiece: Quintuple Nosepiece Condenser: ELWD Condenser NA 0.3, LWD72mm, (without condenser 150mm) Phase Annulus: 10X-20X Phase Annulus Plate Stage: Plain Stage: 160 x 250mm Glass Insert Auxiliary Stage 70 x 180mm Focusing: Coaxial Coarse and Fine Adjustment Coaxial Stroke: 37.7mm per Rotation, Fine Stroke: 0.2mm per Rotation Illumination: Halogen Lamp 6 V30 W</p>	
12	Amity Institute of Pharmacy	Block J1, Room No.- 208	central Instrumentation Room	ELISA Reader	Erba/Lisa Scan II	<p>Onboard 3 speed linear shaking (plate mixing) 8 channel reading with mono & bicromatic optics 42 assay protocols Lamp saver function Mono & Bi chromatic optics PC software available</p>	
13	Amity Institute of Pharmacy	Block J-1, Room No.- 419	Pharmacognosy lab	Soxhlet Apparatus		<p>Used for extracting soluble components or impurities from solids through repeated soaking/siphoning with solvent.</p>	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
14	Amity Institute of Pharmacy	Block J1, Room No.- 317	Research Lab	Electrophoresis Unit	Genetix/ GX300C	Horizontal Electrophoresis unit is a technique used for the separation of DNA, RNA, or protein molecules using an electric current applied to a gel matrix. It is usually performed for analytical purposes, and will used as a preparative technique prior to use of other methods such as PCR, DNA sequencing etc.	
15	Amity Institute of Pharmacy	Block J-3, Room No.- LG-001	Machine Room	Ball Mill		Used for any type of grinding, milling and pulverizing. A versatile and multi-functional design allows to handle fibrous, brittle, dry or wet materials. Fitted with geared motor, 1.0 kg of capacity and 80 rpm speed. The equipment imparts high level purity in finished material.	
16	Amity Institute of Pharmacy	Block J-3, Room No.- LG-001	Machine Room	Bottle Cap Sealing Machine		Portable, hand operated equipment with two extra cap holders of different sizes. Totally casted machine hand operated. Hand operated, electrical operated (mounted on heavy stand.)	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
17	Amity Institute of Pharmacy	Block J-3, Room No.- LG-001	Machine Room	Digital Bulk Density	Nisco	<p>Specially designed to meet the requirements of USP Standards.</p> <p>Apparatus can hold two cylinders, Capacity: 100 ml.</p> <p>The mechanism provides simultaneously rotating and tapping motion to the cylinders for packing the sample under test evenly and uniformly together.</p> <p>The user has to select the No. of stokes in the counter & other selecting just press start & it will start the stokes & the digital display will show the number of strokes.</p>	
18	Amity Institute of Pharmacy	Block J-3, Room No.- LG-001	Machine Room	Digital TAB Disintegration (USP)/ Dissolution Tester	Electrolab/TDT06L	<p>Range:- 25 - 200RPM</p> <p>Accuracy:-± 1</p> <p>Resolution:- 1</p> <p>Temperature:30.0°C to 40.0°C</p> <p>Stabilisation Time:Approx 27 min</p> <p>Sensor:PT 100</p> <p>Interval Range:1 min - 23 hrs 59 min</p> <p>No. of Intervals: 12</p> <p>Volume Range:1 - 25 ml</p>	
19	Amity Institute of Pharmacy	Block J-3, Room No.- LG-001	Machine Room	Digital Tablet Disintegration Test Machine (BP)	Nisco	<p>Designed for accurate estimation of disintegration time of tablets/capsules. Our Disintegration Test Machine is assembled in painted sheet metal cabinet with chemical resistant epoxy coating, fitted with superior quality constant speed sturdy motor. The guide discs and strokes are conforming to pharmacopeia standards. We are a reputed name when it comes to the foremost Disintegration Testing Machine Suppliers.</p> <p>Digital Timer with Time Hold Facility</p> <p>Water bath for maintaining temperature</p> <p>Digital Temperature Controller with Water bath</p>	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
20	Amity Institute of Pharmacy	Block J-3, Room No.- LG-001	Machine Room	Double Cone Blender		Capacity:- 5kg Double Cone Blender Consists of two stainless steel cone welded with cylindrical shape and having charging and discharging at opposite ends mounted on angle iron stand capacity 5Kg single speed on reduction gear box.	
21	Amity Institute of Pharmacy	Block J-3, Room No.- LG-001	Machine Room	Fribility Test Appartus	National Scientific Appratus	Used for tablets to resolve the life since the time it has been manufactured. Transparent plastic drum Rotating plastic drum for rots Plastic blades Timer	
22	Amity Institute of Pharmacy	Block J-3, Room No.- LG-001	Machine Room	Sieve Shaker	Perfect	Sieve shaker is designed to carry more than 5 sieves The shaker is driven by a Electric Motor	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
23	Amity Institute of Pharmacy	Block J-3, Room No.- LG-001	Machine Room	Tab Punching Machine (GMP) (Automatic) Mini Press	Rimek	Version:GMP Rotary:Single Tooling:B No. of Station.:10 Max. Output (Tab/hr)*:18000 Max. Pressure:6 Ton Max. :Tab. Diameter:16 mm Max. Depth of Fill:17 mm Main Motor:ACVF	
24	Amity Institute of Pharmacy	Block J-3, Room No.- LG-001	Machine Room	Coating Pan	Nisco	Model CP-24" Loading capacity 25 Drive Motor HP 3 PH 50 C S 415 V AC line 0.50 RPM of Pan (empty) 24 / 72 Hot air blower motor HP 3 PH 50 C/S 415 V AC line 0.25 Blower capacity Maximum CFM 100 Heater K.W 1.5 K.W	
25	Amity Institute of Pharmacy	Block J-3, Room No.- LG-001	Machine Room	Auto Granulator (Horizontal Drive)	Rimek/Kalweka HD-410 AC	The purpose is to enable SCALE UP and invent/innovate a new drug by taking trials with small batch (minimum. 1 litres and maximum. 5 litres in volume) in R&D labs, Pharmaceutical colleges & Institutions, where limited physical space, sample size, price of trial, time and Ergonomic convenience are of utmost importance	






S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
26	Amity Institute of Pharmacy	Block G, Fourth floor	Animal House Facility	Breeding Room		Animal House Facility	
27	Amity Institute of Pharmacy	Block J-3, Room No.- LG-001	Pharmaceutical Lab - II	Clarity Tester	NISCO	For Clarity testing	






Amity Institute of Applied Sciences (AIAS)






S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
1	Amity Institute of Applied Sciences (AIAS)	E2 - Block, 3rd Floor, Room No.-E2-305	Research Lab	Ultrasonic Interferometer	Mittal Enterprises (F 05)	<p>An Ultrasonic Interferometer is a simple and NDT device to determine the ultrasonic velocity in liquids with a high degree of accuracy.</p> <p>HIGH FREQUENCY GENERATOR Single and Multi-frequency MEASURING CELL Max. displacement of the reflector : 20 mm Required Quantity of liquid: 10 c.c. Least Count of micrometer: 0.01mm/0.001 mm SHIELDED CABLE Impedance : 50 O</p>	
2	Amity Institute of Applied Sciences (AIAS)	E2 - Block, 3rd Floor, Room No.-E2-305	Research Lab	Melt Flow Index	Khera	<p>Used to measure the flow rates of thermoplastics by extrusion plastometer indicating the uniformity of the flow rate of the polymer.</p> <ul style="list-style-type: none"> • Consists of a heated extruder tube, an interchangeable jet through which the material under test is extruded, and a piston with dead weights to apply the specified pressure on the material inside the extruder tube. • PID controller is provided to indicate & control the temperature of the tube. • Temperature Range : Ambient to 199.9° C. • Diameter of heater tube cavity : 9.55 mm. • Dimensions of piston head : 9.47 mm Diameter X 6.35 mm Long • Dimensions of jets holes : 2.095 mm X 8.00 mm Long 	
3	Amity Institute of Applied Sciences (AIAS)	E2 - Block, 3rd Floor, Room No.-E2-305	Research Lab	Wrist Action Shaking Machine	Mittal Enterprises	<p>Heavy cast iron base with sturdy construction with two side arms for holding flasks. A fractional H.P. heavy duty Motor with variable speed through continuously variable speed controller is provided. To hold flasks of capacity 100 to 1000 ml. Complete with cord plug etc. To work on 220 V AC 50 Hz single phase. Automatic 0-60 minutes Timer. Model to hold 4 flasks.</p>	
4	Amity Institute of Applied Sciences (AIAS)	E2 - Block 3rd Floor, Room No.-E2 305	Research Lab	Chiller with stirrer and reciprocating pump	Biotechnologies	Chiller with stirrer and reciprocating pump 220-230 V	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
5	Amity Institute of Applied Sciences (AIAS)	E2 - Block, 3rd Floor, Room No.-E2-305	Research Lab	Double Beam Spectrophotometer	systronics	<p>Wavelength range 190 to 1100nm Wavelength accuracy ± 0.1nm at 656.1nm D2 ± 0.3nm (190 to 1100nm) Photometric system: Double Beam Photometric range Absorbance: -4 to 4 Abs Transmittance: 0% to 400% Photometric accuracy :- ± 0.002 Abs (0.5Abs), ± 0.004 Abs (1.0Abs), ± 0.006 Abs (2.0Abs)</p>	
6	Amity Institute of Applied Sciences (AIAS)	E2 - Block, 3rd Floor, Room No.-E2-305	Research Lab	Laminar Air Flow	Laczene biosciences	Laminar Air Flow 220 V	
7	Amity Institute of Applied Sciences (AIAS)	E2 - Block, 3rd Floor, Room No.-E2-305	Research Lab	Rotatory Evaporator	kehra	<p>Rotatory Evaporator for experiment of evaporation, distillation or separation of chemicals. 5L, 50hz 230V 50 to 250 rpm</p>	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
8	Amity Institute of Applied Sciences (AIAS)	E2 - Block, 3rd Floor, Room No.-E2-305	Research Lab	Shimadzu UV - Visible Double Beam Spectrophotometer	Shimadzu /UV - 1800	<p>Wavelength range 190 to 1100nm Wavelength accuracy ± 0.1nm at 656.1nm D2 ± 0.3nm (190 to 1100nm) Photometric system: Double Beam Photometric range Absorbance: -4 to 4 Abs Transmittance: 0% to 400% Photometric accuracy :- ± 0.002 Abs (0.5Abs), ± 0.004 Abs (1.0Abs), ± 0.006 Abs (2.0Abs)</p>	
9	Amity Institute of Applied Sciences (AIAS)	E2 - Block, 3rd Floor, Room No.-E2-305	Research Lab	Stereo Zoom Microscope	Dewinter	Stereo Zoom Microscope 220 V	
10	Amity Institute of Applied Sciences (AIAS)	E2 - Block, 3rd Floor, Room No.-E2-305	Research Lab	Cooling centrifuge	Remi (C-24BL)	<p>Max. Speed(rpm):20000 Max. RCFg':37570 Max. Tube Size(ml):100 Max. Capacity(ml): 400 Lowest Temp.°C :-8</p>	
11	Amity Institute of Applied Sciences (AIAS)	E2 - Block, 3rd Floor, Room No.-E2-305	Research Lab	Ultrasonic Cleaner	Life Care	Ultrasonic Cleaner 170 V.AC TO 250V.AC,170 V.AC TO 250V.AC	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
12	Amity Institute of Applied Sciences (AIAS)	E2 - Block, 3rd Floor, Room No.-E2-305	Research Lab	Vacuum Oven	CSI	Vacuum Oven	
13	Amity Institute of Applied Sciences (AIAS)	E2 - Block, 3rd Floor, Room No.-E2-305	Research Lab	Autoclave	Lacbiosciences	Autoclave (Vertical) 1.5 KW, 10-20 Psi	
14	Amity Institute of Applied Sciences (AIAS)	E2 - Block, 3rd Floor, Room No.-E2-305	Research Lab	Incubator Shaker	Lacbiosciences	Incubator Shaker	
15	Amity Institute of Applied Sciences (AIAS)	E2 - Block, 3rd Floor, Room No.-E2-305	Research Lab	Fourier Transform Infrared Spectroscopy (FTIR)	perkin Elmar / Spectrum Two	Fourier Transform Infrared Spectroscopy (FTIR) Easy to use, powerful, compact and robust, Standard, high-performance 18 Volt ,DC3 AMP, Max power Consumption is 65VA (approximately) 40 W)	
16	Amity Institute of Applied Sciences (AIAS)	E2 - Block, 3rd Floor, Room No.-E2-305	Research Lab	Electro Spining Apparatus	Espin Nano	Electro Spining Setup Digital voltmeter & Microammeter for voltage and current display. Overload and short-circuit protection	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
17	Amity Institute of Applied Sciences (AIAS)	E2 - Block, 3rd Floor, Room No.-E2-305	Research Lab	Fume Hood		Fume Hood Facility	
18	Amity Institute of Applied Sciences (AIAS)	E2 - Block, 3rd Floor, Room No.-E2-301	Research Lab	Gas Chromatography (GC)	TOSHVIN	Gas Chromatography (GC) System comes ready to run liquid and headspace samples	
19	Amity Institute of Applied Sciences (AIAS)	E2 - Block, 3rd Floor, Room No.-E2-301	Research Lab	AUTOLAB	Metrohm	AUTOLAB instrument for electrochemical research 100/240 V, 700W	
20	Amity Institute of Applied Sciences (AIAS)	E2 - Block, 3rd Floor, Room No.-E2-301	Research Lab	Polorized Microscope	Khera intruments pvt.ltd	2 Buttons, 8 Magnification Settings: 40X, 60X, 100X, 150X, 400X, 600X, 1000X, 1500X. Anti-Fungal. Anti Reflection Coated Eye-Pieces Pairs. Led Illumination & Smps Based 100v-220v Wide Voltage Range. All Die Casted Sturdy Body And Ergonomic Design.	
21	Amity Institute of Applied Sciences (AIAS)	E2 - Block, 3rd Floor, Room No.-E2-301	Research Lab	Ultrasonic Cleaner	Metrex	Ultrasonic Cleaner	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
22	Amity Institute of Applied Sciences (AIAS)	E2 - Block, 3rd Floor, Room No.-E2-301	Research Lab	Microwave Synthesizer		Microwave Synthesizer	
23	Amity Institute of Applied Sciences (AIAS)	E2 - Block, 3rd Floor, Room No.-E2-301	Research Lab	Hydraulic Press Machine	KBr Press	Kbr Manual Pellet Hydraulic Press	
24	Amity Institute of Applied Sciences (AIAS)	E2 - Block, 3rd Floor, Room No.-E2-305	Research Lab	Froth Flotation Equipment	Mass International	Used to study the performance of Froth Flotation Cell To find % recovery of mineral in froth from a standard mixture	
25	Amity Institute of Applied Sciences (AIAS)	E2 - Block, 3rd Floor, Room No.-E2-305	Research Lab	Photo Chemical Reactor		Photo Chemical Reactor	
26	Amity Institute of Applied Sciences (AIAS)	E2 - Block, 3rd Floor, Room No.-E2-305	Research Lab	Electro meter	Keithley (6517B)	Measures resistances up to 1016 1fA - 20mA current measurement range <20 V burden voltage on lowest current ranges 200T input impedance Unique voltage reversal method for high resistance measurements <3fA bias current Optional plug-in scanner cards Up to 425 rdgs/s 0.75fA p-p noise. Built-in 1kV voltage source	






S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
27	Amity Institute of Applied Sciences (AIAS)	E2 - Block, 3rd Floor, Room No.-E2-305	Research Lab	Ultra Sonicator	Metrex	MUB-33	
28	Amity Institute of Applied Sciences (AIAS)	E2 - Block, 4th Floor, Room No.-E2-401	Research Lab	Refrigerator	Whirlpool	FF 2D 375 4S/2018	
29	Amity Institute of Applied Sciences (AIAS)	E1 - Block, 4th Floor, Room No.-E1-417	Research Lab	Vaccum Oven	Metrex	MV 2	
30	Amity Institute of Applied Sciences (AIAS)	E2 - Block, 3rd Floor, Room No.-E2-305	Research Lab	vertical Autoclave	Metrex	MA-10D	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
31	Amity Institute of Applied Sciences (AIAS)	E2 - Block, 4rd Floor, Room No.-E2-401	Research Lab	Rotary Evaporator	inkarp/ RE-100-PRO	Rotatory Evaporator for experiment of evaporation, distillation or separation of chemicals.	
32	Amity Institute of Applied Sciences (AIAS)	E2 - Block, 3rd Floor, Room No.-E2-305	Research Lab	UV-VIS Spectrophotometer	Shimadzu (UV-1800)	Wavelength range 190 to 1100nm Wavelength accuracy $\pm 0.1\text{nm}$ at 656.1nm D2 $\pm 0.3\text{nm}$ (190 to 1100nm) Photometric system: Double Beam Photometric range Absorbance: -4 to 4 Abs Transmittance: 0% to 400% Photometric accuracy :- ± 0.002 Abs (0.5Abs), ± 0.004 Abs (1.0Abs), ± 0.006 Abs (2.0Abs)	
33	Amity Institute of Applied Sciences (AIAS)	E2 - Block, 3rd Floor, Room No.-E2-305	Research Lab	Ultrasonic Interferometer	Mittal Enterprises (F05)	An Ultrasonic Interferometer is a simple and NDT device to determine the ultrasonic velocity in liquids with a high degree of accuracy. HIGH FREQUENCY GENERATOR Single and Multi-frequency MEASURING CELL Max. displacement of the reflector : 20 mm Required Quantity of liquid: 10 c.c. Least Count of micrometer: 0.01mm/0.001 mm SHIELDED CABLE Impedance : 50 O	
34	Amity Institute of Applied Sciences (AIAS)	E2 - Block, 3rd Floor, Room No.-E2-305	Research Lab	Froth Flotation Cell	Mass International	Used to study the performance of Froth Flotation Cell To find % recovery of mineral in froth from a standard mixture	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
35	Amity Institute of Applied Sciences (AIAS)	E2 - Block, 3rd Floor, Room No.-E2-305	Research Lab	Melt Flow Index	Khera	<p>Used to measure the flow rates of thermoplastics by extrusion plastometer indicating the uniformity of the flow rate of the polymer.</p> <ul style="list-style-type: none"> • Consists of a heated extruder tube, an interchangeable jet through which the material under test is extruded, and a piston with dead weights to apply the specified pressure on the material inside the extruder tube. • PID controller is provided to indicate & control the temperature of the tube. • Temperature Range : Ambient to 199.9° C. • Diameter of heater tube cavity : 9.55 mm. • Dimensions of piston head : 9.47 mm Diameter X 6.35 mm Long • Dimensions of jets holes : 2.095 mm X 8.00 mm Long 	
36	Amity Institute of Applied Sciences (AIAS)	E2 - Block, 3rd Floor, Room No.-E2-305	Research Lab	Paint Corrosion Test Furnace		<p>Temperature cycle of 42° C to 48° C & back to 42° C in 60 t070 Minutes. Temperature Accuracy: +/-0.5° C. Stainless Steel Chamber. Humidity Range above 98% R.H. Available in three sizes. (AS PER IS : 101)</p>	
37	Amity Institute of Applied Sciences (AIAS)	E2 - Block, 3rd Floor, Room No.-E2-305	Research Lab	Viscometer	Brookfield (DV-E)	<p>Viscosity Range(cP):- 1 - 2M Spring Torque:-673.7 dyne-cm(0.0673 milli Newton-m) Low cost and easy to use Direct display in: cP or mPa-s % Torque, Spindle, and Speed Torque measurement accuracy: 1% of full scale range Repeatability: 0.2% of full scale range Compatible with all Brookfield accessories NIST traceable viscosity standards available 18 speeds for greater range capability (0.3 to 100 rpm)</p>	
38	Amity Institute of Applied Sciences (AIAS)	E2 - Block, 3rd Floor, Room No.-E2-305	Research Lab	Cooling Centrifuge	Remi (C-24BL)	<p>Max. Speed(rpm):20000 Max. RCFg':37570 Max. Tube Size(ml):100 Max. Capacity(ml): 400 Lowest Temp.°C :-8</p>	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
39	Amity Institute of Applied Sciences (AIAS)	E1 - Block, 4th Floor, Room No.-E1-421	Research Lab	Wrist Action Shaking Machine	Mittal Enterprises	Heavy cast iron base with sturdy construction with two side arms for holding flasks. A fractional H.P. heavy duty Motor with variable speed through continuously variable speed controller is provided. To hold flasks of capacity 100 to 1000 ml. Complete with cord plug etc. To work on 220 V AC 50 Hz single phase. Automatic 0-60 minutes Timer. Model to hold 4 flasks.	
40	Amity Institute of Applied Sciences (AIAS)	E1 - Block, 4th Floor, Room No.-E1-416	Research Lab	Muffle Furnace	Jupiter	This furnace is light in weight with ceramic wool insulation (instead of Brick insulation). The outer casting is made of double walled thick PCRC sheet, duly painted with attractive stove enamel. Heating elements are made of Kanthal A-1 wire and backed by high temperature cerwool insulation, which avoids loss of energy.	
41	Amity Institute of Applied Sciences (AIAS)	E1 - Block, 4th Floor, Room No.-E1-416	Research Lab	Electrometer / High Resistance Meter	Keithley (6517B)	Measures resistances up to 1016 1fA - 20mA current measurement range <20 V burden voltage on lowest current ranges 200T input impedance Unique voltage reversal method for high resistance measurements <3fA bias current Optional plug-in scanner cards Up to 425 rdgs/s 0.75fA p-p noise. Built-in 1kV voltage source	
42	Amity Institute of Applied Sciences (AIAS)	E1 - Block, 4th Floor, Room No.-E1-416	Research Lab	GM Counter	Nucleonix (GC601A)	G.M. Input (From G.M.Counter) (a) Polarity : Negative (b) Amplitude : 250 mV (min) Resolving Time:-6 micro sec (approx) HV Output:Variable HV using teturn pot upto a maximum of 1500 volts at 1 mA. Line and load regulation better than 0.05%. Ripple less than 20mV. Display:16 x 2 LCD dotmatrix display has been provided to indicate data counts, Elapsed Time and HV. Counts Capacity:999999 counts Preset time:(0-9999) sec. Programmability:-Includes selection of Preset Time, Storing / Recalling of data, starting and stopping of acquisition etc., G.M. Detector pulses can be seen on the oscilloscope. Unit is powered through a detachable mains cord. It will draw about 250 mA at 230 volts AC at 50 Hz.	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
43	Amity Institute of Applied Sciences (AIAS)	E1 - Block, 4th Floor, Room No.-E1-403	Research Lab	High Voltage DC Power Supply (Poling Set up)	Aplab (H5K02N)	<p>500W-1.2KW OUTPUT</p> <p>Metering : 3 digit DPMs for voltage and current measurement.</p> <p>Meter Accuracy : ± 3 counts.</p> <p>Constant Voltage Mode :</p> <p>REGULATION :</p> <p>Line : $\pm 0.01\% \pm 2\text{mV}$ for $\pm 10\%$ change in line voltage.</p> <p>Load : $\pm 0.01\% \pm 2\text{mV}$ for load change from zero to full load.</p> <p>RIPPLE AND NOISE : 1mV rms max. 20Hz to 20MHz.</p> <p>Constant Current Mode :</p> <p>REGULATION :</p> <p>Line : $\pm 0.05\% \pm 10\text{mA}$ for $\pm 10\%$ change in line voltage.</p> <p>Load : $\pm 0.05\% \pm 10\text{mA}$ for change in output voltage from 0 volts to maximum output voltage.</p> <p>Output Polarity : Floating w.r.t. ground.</p> <p>Overload Protection : Constant current type.</p> <p>Transient Response : 100μsec within 10mV of set output voltage for load change from 10% to 90%.</p>	
44	Amity Institute of Applied Sciences (AIAS)	E1 - Block, 4th Floor, Room No.-E1-403	Research Lab	High temperature muffle furnace	Tempens Pvt. Ltd	Maximum working temperature 1700 oC	
45	Amity Institute of Applied Sciences (AIAS)	E1 - Block, 4th Floor, Room No.-E1-403	Research Lab	Hot Spray Dryer	Ant Ceramics	Max temperature 300 oC, with peristaltic pump and air compressor	
46	Amity Institute of Applied Sciences (AIAS)	E1 - Block, 4th Floor, Room No.-E1-403	Research Lab	NQM-0.4 PLANETARY BALL MILL	YANGZHOU NUOYA MACHINERY CO., LTD	4*100ml zirconia Jars with corresponding balls for NQM-0.4 planetary ball mill	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
47	Amity Institute of Applied Sciences (AIAS)	E1 - Block, 4th Floor, Room No.-E1-403	Research Lab	Double roller jar mill	Metwiz Materials	0.5 HP motor, PU coated MS rods, digital RPM indicator,VFD controlled	
48	Amity Institute of Applied Sciences (AIAS)	E1 - Block, 4th Floor, Room No.-E1-403	Research Lab	Vacuum Furnace, MODELNO. : TF-1600	Tempens Pvt. Ltd	USEFUL WORKING TUBE: 100 X 110 X 1000(MM) (ID X OD X L), Maximum working temperature 1600 oC, oxygen gas purging, equipped with vacuum pump and chiller	
49	Amity Institute of Applied Sciences (AIAS)	E1 - Block, 4th Floor, Room No.-E1-403	Research Lab	Berlincourt Quasi Static Piezo Constant d33Meters	PolyK Technologies	Measurement range 1-200 pC/N and 1-2000 pC/N, With calibration standard	
50	Amity Institute of Applied Sciences (AIAS)	E1 - Block, 4th Floor, Room No.-E1-403	Research Lab	IR sensor test bench	Stanford Resaerch System	Lock-in-amplifier SR860, optical chopper SR540, thermal IR emitter and DSO	
51	Amity Institute of Applied Sciences (AIAS)	E1 - Block, 4th Floor, Room No.-E1-403	Research Lab	Isomet Low speed precision cutter	Buehler	The IsoMet Low Speed precision cutter is a compact gravity-fed precision saw, 5in [127mm] tabletop machine that delivers the gentlest cut for your sample. Its precision micrometer and user-friendly controls give total control to the user. Pair with Buehler's diamond / CBN blades and IsoCut coolant for a comprehensive solution with the highest level of quality.	


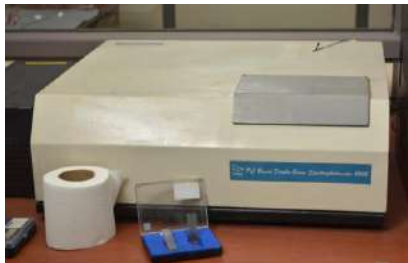

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
52	Amity Institute of Applied Sciences (AIAS)	E1 - Block, 4th Floor, Room No.-E1-403	Research Lab	Cold Isostatic Press	Metwiz Materials	Semiautomatic press 30 Ton, Die with ID 75mm	
53	Amity Institute of Applied Sciences (AIAS)	E1 - Block, 4th Floor, Room No.-E1-403	Research Lab	Hydraulic Press	Metwiz Materials	20 Ton manual laboratory hydraulic press for powder compaction	
54	Amity Institute of Applied Sciences (AIAS)	E1 - Block, 4th Floor, Room No.-E1-403	Research Lab	Electronic balance	Wensar	0.1 mg, max 200g	
55	Amity Institute of Applied Sciences (AIAS)	E1 - Block, 4th Floor, Room No.-E1-403	Research Lab	Muffle Furnace	Jupiter	This furnace is light in weight with ceramic wool insulation (instead of Brick insulation). The outer casting is made of double walled thick PCRC sheet, duly painted with attractive stove enamel. Heating elements are made of Kanthal A-1 wire and backed by high temperature cerwool insulation, which avoids loss of energy.	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
56	Amity Centre for Spintronic Materials (ACSM), Amity Institute of Applied Sciences (AIAS)	E2 - Block, Room No.- E2-409	Thin film deposition Lab	Ultra high vacuum Ion beam sputtering	Developed in house	An ultrahigh vacuum thinfilm deposition facility using ion-beam sputtering technique with thickness control of better than an Angstrom has been developed. Six different targets can be loaded at a time in order to prepare a variety of multilayer structures. Substrate temperature can be varied up to 1000K. The facility has also been used for creating three dimensional nano-patterns using ion-erosion	
57	Amity Centre for Spintronic Materials (ACSM), Amity Institute of Applied Sciences (AIAS)	E2 - Block, Room No.- E2-408	X ray scattering Lab	Ion beam accelerator	Being developed in house	A low energy (2 Kev – 30 KeV) gaseous ion (both low mass H and high mass Ar) accelerator has been developing with the help of Inter-University Accelerator Centre, New Delhi to tailor the functional properties of magnetic nanostructures having relevance to spintronics, as well as some soft matter films and nanocomposites.	
58	Amity Centre for Spintronic Materials (ACSM), Amity Institute of Applied Sciences (AIAS)	E2 - Block, Room No.- E2-408	X ray scattering Lab	X ray florescence	Refurbished components assembled	X ray florescence for scattering	
59	Amity Centre for Spintronic Materials (ACSM), Amity Institute of Applied Sciences (AIAS)	E2 - Block, Room No.- E2-410	MOKE Lab	Mossbauer spectroscopy	Developed in house by assembling different components of Weissel, Ortec, LnD. Make	It is a nuclear technique which provides chemical, structural as well as magnetic information of solids and thin films.	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
60	Amity Centre for Spintronic Materials (ACSM), Amity Institute of Applied Sciences (AIAS)	E2 - Block, Room No.- E2-410	MOKE Lab	Magneto optic kerr effect set up	HINDS Instruments	Magneto-optical Kerr effect measurement facility has been developed for magnetic measurement of thin and ultra-thin films. This is one of the most sensitive instrument which can measure magnetic properties of even a few Angstrom thick films. Magnetic properties like hysteresis loop, coercivity, magnetic anisotropy can be measured	
61	Amity Centre for Spintronic Materials (ACSM), Amity Institute of Applied Sciences (AIAS)	E2 - Block, Room No.- E2-411	FURNACE Lab	High temperature vacuum furnace		Tubular. Vacuum furnace with quartz tube id approx. 100mm with temp. Range 5 deg. c above ambient to 1400 deg. c. heating zone 300mm length. Thermocouple pt - pt - rh 10% with ampere meter, thermal fuse and switch gears. Heating is done by silicon carbide heating rod having rating 6.0 kW.	
62	Amity Centre for Spintronic Materials (ACSM), Amity Institute of Applied Sciences (AIAS)	E2 - Block, Room No.- E2-411	FURNACE Lab	Spin coater	APEX instruments/ spinNXG Series	Programmable Spin Coating System with Chamber Heating, In-situ Programmable Temperature Controller, 40 mm PTFE Substrate Holder	
63	Amity Centre for Spintronic Materials (ACSM), Amity Institute of Applied Sciences (AIAS)	E2 - Block, Room No.- E2-411	FURNACE Lab	Hydraulic press with Kbr die sets	S.A. instruments and systems / RDET 45530	15 ton capacity, table top , cylindrical, weight 35 kg, hand operated, pump type, 10 mm and 13 mm KBr die set (stainless steel)	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
64	Amity Centre for Spintronic Materials (ACSM), Amity Institute of Applied Sciences (AIAS)	E2 - Block, Room No.- E2-410	MOKE Lab	Keithley DC power supply	Keithley/2260B-80	Bench Power Supply Multi Range DC Programmable 1 Output 0-80Volts, 0-13 Amp, 360 watt	
65	Amity Centre for Spintronic Materials (ACSM), Amity Institute of Applied Sciences (AIAS)	E2 - Block, Room No.- E2-410	MOKE Lab	Digital precision mutimeter	Tektronix/DMM4040	6-1/2 digit resolution, True rms ac, Extended 10 Ω and 1 G Ω ranges, Frequency measurements to 1 MHz	
66	Amity Centre for Spintronic Materials (ACSM), Amity Institute of Applied Sciences (AIAS)	E2 - Block, Room No.- E2-410	MOKE Lab	Digital storage oscilloscope	Tektronix/TBS1072 B-EDU	70 MHz, 2 channel	
67	Amity Centre for Spintronic Materials (ACSM), Amity Institute of Applied Sciences (AIAS)	E2 - Block, Room No.- E2-408	X ray scattering Lab	Ultra sonic cleaner	LMUC-2	capacity 1.5 litres, tank size: 150x137x100(mm), frequency 40kHz, ultra sonic power 50W, Heating: Ambient to 80°C Digitally Controlled (Dual Display), Digital timer 5 to 60 minutes	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
68	Amity Centre for Spintronic Materials (ACSM), Amity Institute of Applied Sciences (AIAS)	E2 - Block, Room No.- E2-410	MOKE Lab	Rotary vacuum pump	Technovac Engineers/RV2/100	Rotary vacuum pump fitted with moisture trap and vacuum gauge complete with motor	
69	Amity Centre for Spintronic Materials (ACSM), Amity Institute of Applied Sciences (AIAS)	E2 - Block, Room No.- E2-410	MOKE Lab	ultra-high vacuum (UHV) annealing setup	build in house Build in house	vacuum annealing testing at approximately 973 K	
70	Amity Centre for Radiation Biology (ACRB), Amity Institute of Applied Sciences (AIAS)	J-3 Block, LG-08	Radiation Biology Laboratory	CO 2 Incubator	New Brunswick(Galaxy (170S) Eppendorf	Volume: 170L Shelves :4 Shelves Range: 4°C above Ambient to 50°C Uniformity :+/- 0.2°C	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
71	Amity Centre for Radiation Biology (ACRB), Amity Institute of Applied Sciences (AIAS)	J-3 Block, LG-08	Radiation Biology Laboratory	Microplate Absorbance Reader	Biorad(Imark)	<p>Wavelength range :400–750 nm Photometric range :0.0–3.5 OD Linearity : ≤1.0% from 0.0–2.0 OD; ≤2.0% from 0.0–3.0 OD Accuracy : ≤1.0% or 0.010 from 0.000–3.000 OD at 490 nm Precision :1.0% or 0.005 OD from 0.0–2.0 OD; 1.5% from 2.0–3.0 OD Resolution : 0.001 OD Filter wheel capacity : 8 Plate shaking (3 speeds) :Low, mid, high Duration, sec :0–999 Read time : 6 sec at single wavelength, 10 sec at dual wavelengths Data output :Onboard graphical thermal printer and USB2 interface with PC or Mac data stations Data storage :Calendar/clock functions; 64 assay protocols, Multilanguage support 4 languages, LCD indication supported; printout report supported</p>	
72	Amity Centre for Radiation Biology (ACRB), Amity Institute of Applied Sciences (AIAS)	J-3 Block, LG-08	Radiation Biology Laboratory	UV- Visible spectrophotometer	Systronics(2202)	<p>Optics:Double Beam Optics Wavelength Range:200 - 1100 nm Spectral Bandwidth:2 nm Display:PC Monitor 2202 Operating Mode:Single Multi-Wavelength, Scan & Time Scan Measuring Modes:%T, ABS, Concentration & K Factor ABS Range: + 2.5 Abs</p>	
73	Amity Centre for Radiation Biology (ACRB), Amity Institute of Applied Sciences (AIAS)	J-3 Block, LG-08	Radiation Biology Laboratory	Flourescence Microscope	Olumpus(BX 41TF)	<p>Optical system UIS (Universal Infinity System) optical system Built-in transmitted Koehler illumination Illumination :6V 30W halogen bulb Focusing Stage height movement by roller guide (rack & pinion) Stroke per rotation: 0.1 mm (fine), 17.8 mm (coarse) Full stroke range: 25 mm Revolving nosepiece:Universal 6 position revolving</p>	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
74	Amity Centre for Radiation Biology (ACRB), Amity Institute of Applied Sciences (AIAS)	J-3 Block, LG-08	Radiation Biology Laboratory	Cooling Centrifuge	Remi	Cooling Centrifuge, Model No -C-24BL, Serial No. -VCCA -2528 .Make- Remi,Speed-20,000 RPM,RCF-37570g .Centrifuge Tube 15 ml capacity, Lowest Temperature-8 Degree Celcius and with Rotor head 12×15 ml	
75	Amity Centre for Radiation Biology (ACRB), Amity Institute of Applied Sciences (AIAS)	J-3 Block, LG-08	Radiation Biology Laboratory	Electronic Balance	Shimadzu	Model No- RS232C, Specification- Ambient operation temperature-10-30 degree celcius,pan size- 80 mm dia approx,main body dimenstion-(W)220mm×330mm(D)×310mm(H) Approx, Main body weight -7 kg approx,power consumption -7VA approx,Capacity- 82gms/220gms,Accuracy/Readibility-0.01mg to 0.1mg with inbuilt RS232 port	
76	Amity Centre for Radiation Biology (ACRB), Amity Institute of Applied Sciences (AIAS)	J-3 Block, LG-08	Radiation Biology Laboratory	Laminar Air Flow (Vertical)	National Scientific	Vertical Laminar Air Flow - Working Size- 4"×2"×2", Size of Hepa filter - 4"×2"×6",Cabinet made out of cold rolled steel sheet duly powder coated with working table top and chamber made of SS with illumination of 2×40W. Efficiency of HEPA as high as 99.99% thus retaining all air borne particles of size -0.3 microns.	
77	Amity Centre for Radiation Biology (ACRB), Amity Institute of Applied Sciences (AIAS)	J-3 Block, LG-08	Radiation Biology Laboratory	OVEN (Small Size)	MM Biotech	Make-NISCO,with inner chamber size (14"×14"×14) made of stainless steel with accessories as under: Digital Temperature Indicator cum controller.	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
78	Amity Centre for Radiation Biology (ACRB), Amity Institute of Applied Sciences (AIAS)	J-3 Block, LG-08	Radiation Biology Laboratory	Oven (Big Size)	NISCO	Hot Air Oven .Make -NISCO .with inner Chamber size- 605×605×605mm, made of stainless steel with accessories as under- Air circulation fan and digital temperature indicator cum controller.	
79	Amity Centre for Radiation Biology (ACRB), Amity Institute of Applied Sciences (AIAS)	J-3 Block, LG-08	Radiation Biology Laboratory	Gel Rocker	GENIE	LI-GR-M-100	
80	Amity Centre for Radiation Biology (ACRB), Amity Institute of Applied Sciences (AIAS)	J-3 Block, LG-08	Radiation Biology Laboratory	Laboratory Centrifuge	Remi	Model No-R-8C, Maximum Rotor Speed -5250 RPM, Maximum Rotor Centrifuge force-3500 g,Width-3500 mm,Depth-410mm,Height-315 mm,Connected electrical load supply-0.325 kVA, 220-230 Volts Single phase 50Hz A/C	





AMITY INSTITUTE OF ORGANIC AGRICULTURE (AIOA)





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
1	AIOA	I-2, 506	DST-SERB Sponsred Lab	PCR (THERMALCYCLER)	BIO RAD- T100	A thermocycler or PCR machine is a laboratory apparatus used to programmed to alter the temperature of the reaction every few minutes to allow DNA denaturing and synthesis.	
2	AIOA	I-2, 506	DST-SERB Sponsred Lab	Upright Display cooler	Elanpro- 205DLX	Used to maintain temperature ranges from 4 to 20 centigrade. Max volume is 200L.	
3	AIOA	I-2, 506	DST-SERB Sponsred Lab	Vertical Autoclave	BST-001	Used to sterilize growth media, glassware etc. maximum volume is 50L and Maximum pressure is 30 ATM.	
4	AIOA	I-2, 506	DST-SERB Sponsred Lab	Electronic Balance	WENSAR- MAB 220	MAX WEIGHT -220g	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
5	AIOA	I-2, 506	DST-SERB Sponsred Lab	Uv Transilluminator	CRYSTAL BioGlow- ZT-20SA	A transilluminator uses an intense source of UV radiation to make visible the fluorescent marker used in electrophoresis gels.	
6	AIOA	I-2, 506	DST-SERB Sponsred Lab	Ph Meter	LABMAN	pH meter, electric device used to measure hydrogen-ion activity (acidity or alkalinity) in solution.	
7	AIOA	I-2, 506	DST-SERB Sponsred Lab	Micro Centrifuge	SPROUT	A microcentrifuge is an important piece of equipment for any laboratory, as it is used for spinning a variety of samples at high speed	
8	AIOA	I-2, 506	DST-SERB Sponsred Lab	Spectro Photometer	LABMAN LMSP-UV1900	Spectrophotometry is a standard and inexpensive technique to measure light absorption or the amount of chemicals in a solution	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
9	AIOA	I-2, 506	DST-SERB Sponsred Lab	Laminar Air Flow	BST-LAF-04	Provides aseptic conditions to reduce contamination when dealing with pure cultures of bacteria.	
10	AIOA	I-2, 506	DST-SERB Sponsred Lab	Centrifuge	REMI RM-12C	A centrifuge is a device that uses centrifugal force to separate various components of a fluid. Maximum RPM is 10000	
11	AIOA	I-2, 506	DST-SERB Sponsred Lab	Electrophoresis Chamber & Electrophoresis Power Supply	TRANSONS - CAT-7090	Electrophoresis is a commonly used laboratory technique which uses electrical energy to separate molecules such as proteins or nucleic acids by their size, structure, and electrical charge.	
12	AIOA	I-2, 506	DST-SERB Sponsred Lab	Refrigerator	WHIRLPOOL - DC205F	This refrigerator is used to maintain cultures, enzymes etc. in low temperatures lowest temperature is 4 centigrade	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
13	AIOA	I-2, 506	DST-SERB Sponsered Lab	Refrigerator	Celfrost	This refrigerator is used to maintain cultures, enzymes etc. in low temperatures lowest temperature is -20 centigrade	
14	AIOA	I-2, 506	DST-SERB Sponsered Lab	ROTATAORY FLASK SHKAER	BST-032	Rotary Shakers are ideal for mixing and development of cultures, chemicals, solvents, assays, etc. and for production of basic chemicals, pathological work, and various other applications. Maximum speed/ RPM of 1000.	
15	AIOA	I-2, 504	AIOA	Plant Growth Chamber	Biotechnologies Inc.	Adjustable light, humidity and temperature controller	
16	AIOA	I-2, 504	AIOA	Cooling Centrifuge	Remi Instruments Ltd	Stable speed output upto 1000 RPM , Cooling - 20°C to +20°C	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
17	AIOA	I-2, 504	AIOA	Light Microscope	Magnus	Eyeiece lens- 10X or 15 X power, A steady light source	
18	AIOA	I-2, 504	AIOA	Magnetic Stirrer with Hot Plate		Compact stirring device utilizing a rotating magnetic field, Temperature- upto 100°C	
19	AIOA	I-2, 505	AIOA	Laboratory Autoclave		Stainless steel body, temperature range: 105-134°C, High temperature and high pressure autoprotection	
20	AIOA	I-2, 505	AIOA	Orbital Shaking Incubator	Remi Instruments Ltd	Orbit diameter of 25 mm, upto 250 rpm shaking speed, compatible stabilizer	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
21	AIOA	I-2, 505	AIOA	Seed germinator	Remi Instruments Ltd	Humidity controller (50-90%), temperature range: 5-60°C, power supply: 220 V	
22	AIOA	I-2, 505	AIOA	Electronic Balance	Shimadzu Corporation Japan	Readability range: 1 mg to 1 g, fast response time, return to zero tracking ability	
23	AIOA	I-2, 505	AIOA	Digital Colony Counter	Decibel Digital Technologies	LED display with audio bip with every count, advance sensor	
24	AIOA	I-2, 505	AIOA	Leaf area meter	Systronics	scanner 670nm laser, resolution: 0.01cm ² , scanning speed 200mm/second	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
25	AIOA	I-2, 505	AIOA	Conductivity meter	ELICO	Conductivity: 0~200 mS/cm spread into different ranges, Operating Temperature range: 15-50°C	
26	AIOA	I-2, 505	AIOA	pH meter	ELICO	Range pH: 0-14, power 230V, resolution pH 0.01	
27	AIOA	I-2, 505	AIOA	Hot Oven	Thermotech	Temperature range: 5-250°C, LED display, power supply 220V, over temperature protection	
28	AIOA	I-2, 505	AIOA	Muffle Furnace	GLSW	Maximum temperature 1200°C, power supply 220V, insulation and temperature controller	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
29	AIOA	I-2, 505	AIOA	Distillation Unit		capacity:2-4 litre, distillation with auto cut off option, material-glass, distillate temperature-25-45°C	
30	AIOA	I-2, 505	AIOA	Laboratory Centrifuge	Remi Instruments Ltd	Capacity: 15 ml, power consumption: 75V, maximum speed:5000rpm	
31	AIOA	I-2, 505	AIOA	Spectrophotometer	LABMAN	Wavelength range: 190-1100nm,Single cuvette holder, scanning speed(low, medium, fast), frequency 50Hz	
32	AIOA	I-2, 505	AIOA	Rotary flask shaker		Shake frequency:40-280rpm, rotates specimen in horizontal plane	




Amity Institute of Environmental Science (AIES)




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
1	AIES	J-1/105 First Floor	Environmental Science Lab	COD Reactor	Hanna Instruments (HI 839800)	The HI 839800 COD reactor is an easy to use test tube heater. Its well-marked user interface provides intuitive operation	
2	AIES	J-1/105 First Floor	Environmental Science Lab	PCR	Himedia (Wee32 mini PCR cycler)	The Wee-32™ Thermal Cycler delivers proven reliability combined with enhanced features to meet your today's and tomorrow's PCR needs. Features : • Single Aluminium alloy block of 32 wells compatible for 0.2ml PCR tubes & strips. • Gradient	
3	AIES	J-1/105 First Floor	Environmental Science Lab	Digital Turbidity Meter	RI	Digital Turbidity Meter	
4	AIES	J-1/105 First Floor	Environmental Science Lab	Infrared Digester	Borosil (KIR060 Labquest)	No. Of Positions 6 Tube Capacity 250 ml Temperature Controller Yes Element Temperature 700 DegreeC Time Setting LCD Display	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
5	AIES	J-1/105 First Floor	Environmental Science Lab	Lab Oven	NKSEE LAB	Lab Oven	
6	AIES	J-1/105 First Floor	Environmental Science Lab	Muffle Furnace	NKSEE LAB	Muffle Furnace	
7	AIES	J-1/105 First Floor	Environmental Science Lab	Autoclave	NKSEE LAB	Vertical Autoclave for laboratory use	
8	AIES	J-1/105 First Floor	Environmental Science Lab	Oven Digester	Sonu Lab Services	Oven Digester	

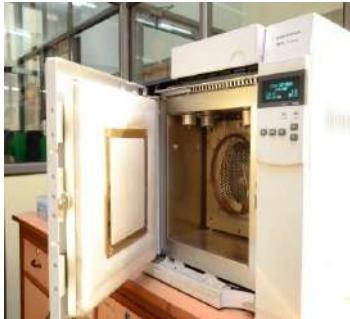


S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
9	AIES	J-1/105 First Floor	Environmental Science Lab	Digestion Unit	-	Digestion Unit	
10	AIES	J-1/105 First Floor	Environmental Science Lab	Water Disillation Unit	Sonu Lab Services	Distilled water for laboratories	
11	AIES	J-1/LG-01 Lower Ground Floor	Forward Osmosis Membrane System Lab	UV- VIS Double Beam Spectrophotometer	LABMAN (LMSP - 1900)	Display: Digital / Touch Screen Type : Portable Usage/Application: Laboratory Use Wavelength Range: 190-1100 nm Band Width: UV Vis	
12	AIES	J-1/LG-01 Lower Ground Floor	Forward Osmosis Membrane System Lab	COD Reactor	HACH (DRB-200)	Hach DRB200 Dry Thermostat Reactor provides unique one-key operation. Weight: Dual block: 2.8 kg Operating Temperature Range: 10 - 45 °C Weight 2: Single block: 2.8kg Temperature Stability: ± 2 °C	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
13	AIES	J-1/LG-01 Lower Ground Floor	Forward Osmosis Membrane System Lab	Magnetic Hot Plate Stirrer	Borosil (MHPS - 350)	Borosil MHPS 350 Digital Magnetic Hot Plate Stirrer Temperature: Plate Temperature: 280 deg C Liquid Temperature: 180 deg C Position: 1 Maximum Speed: 2200 rpm Dimensions: 220x330x115 mm Material: Ceramic Ambient Temperature: 350 deg C Protection Class: IP21 Plate Size: 456x118 mm	
14	AIES	J-1/LG-01 Lower Ground Floor	Forward Osmosis Membrane System Lab	Forward Osmosis Membrane System	PMI India	Forward Osmosis Membrane System	
15	AIES	J-1/LG-01 Lower Ground Floor	Forward Osmosis Membrane System Lab	Water Disillation Unit	-	Distilled water for laboratories	
16	AIES	J-1/LG-01 Lower Ground Floor	Forward Osmosis Membrane System Lab	Centrifuge	-	Bench Top Centrifuge	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
17	AIES	J-1/LG-01 Lower Ground Floor	Forward Osmosis Membrane System Lab	Reverse Osmosis Membrane System	-	Reverse Osmosis Membrane System	
18	AIES	J-1/LG-01A Lower Ground Floor	Environmental Modelling and instrumentation lab	Atomic Absorption Spectrophotometer	novAA 350i - Analytik Jena	Simple, fast, compact and cost-effective flame AAS; Multi element analysis in a high and middle concentration range; Automated flame functions with highest safety standard; Reliable measurements ensured by robust technology and high-performance optics; Trace analysis tanks cold vapor and hydride AAS	
19	AIES	J-1/105 First Floor	Environmental Science Lab	Uv-Vis Spectrophotometer	Specord 200 Plus	User-friendly – intuitive software, large sample chamber, easy exchange of accessories and lamps; Versatile and flexible – extensive range of accessories for liquid, gaseous, solid and powdered samples	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
20	AIES	J-1/105 First Floor	Environmental Science Lab	Leica Microscope	Leica ICC50 HD	The new Leica ICC50 HD camera is an economical, modular solution for viewing fast live images in High Definition (HD).	
21	AIES	J-1/105 First Floor	Environmental Science Lab	Microscope	Magnus MLX	Pre-Centered Abbe Condenser & Aperture Iris Diaphragm (N.A. 1.25); HWF 10x (FN 18mm) Paired Eyepiece with Eyeguards	
22	AIES	J-1/105 First Floor	Environmental Science Lab	Hot Plate	Labtest	Hot Plate	

Amity Institute of Environmental Toxicology Safety & Management (AIETSM)





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
1	AIETSM	J-1/GF- 20	Wet and Instruments Lab	Gas Chromatography	Agilent Technologies (GC7820A)	<p>Ambient operating temperature 15 to 30 °C Ambient operating humidity 30 to 70% Storage extremes -40 to 70 °C Column Oven Dimensions 28.0 × 30.5 × 16.5 cm Operating temperature :8 °C above ambient to 425 °C Temperature setpoint resolution :1 °C Maximum temperature ramp rate :75 °C/min Maximum run time :999.99 min Temperature programming ramps: 5 Ambient rejection :< 0.01 °C per 1 °C Oven temperature ramp :~ 2% Programming temperature repeatability :~ 1% Detector(s):FID, TCD, ECD, NPD Injection Portsup to 2 inlets</p>	
2	AIETSM	J-1/GF- 20	Wet and Instruments Lab	UV-Vis Spectrophotometer	Agilent Technologies (Cary 60)	<p>The Cary 60 UV-Vis spectrophotometer has a wavelength range of 190–1100 nm that can be scanned in under three seconds. Our flexible UV-Vis spectrometer can be fitted with long pathlength cuvettes and solid sample transmission or reflectance accessories, and is ideal for remote UV-Vis absorbance analysis, when fitted with fiber optic probes. Reduce time-consuming and expensive lamp replacements, and minimize instrument revalidation costs with the unique Agilent xenon source lamp. Safely measure life-science samples without sample photodegradation and be sure that you get the correct answer every time with the Cary 60 UV-Vis spectrophotometer. Reliable UV-Vis spectrophotometer performance using fiber optic measurement probes. Why use cuvettes when you can bring the UV-Vis instrument to the sample and get accurate results in a fraction of the time? The highly focused beam image is perfect for measuring small volumes and precious samples accurately and reproducibly. Scan the entire wavelength range (190 to 1100 nm) in under three seconds and collect data from single or multiple wavelengths at 80 data points per second. The Cary 60 UV-Vis spectrophotometer features a comprehensive range of accessories to accurately characterize the widest variety of liquid and</p>	
3	AIETSM	J-1/GF- 20	Wet and Instruments Lab	Inverted Microscope	Nikon (ECLIPSE Ts2)	<p>Inverted Routine Microscope ECLIPSE Ts2 which provides more accurate and efficient microscopy. ECLIPSE Ts2 Inverted Routine Microscope is the successor of the ECLIPSE TS100 as an entry-level inverted microscope with improved functionality, enabling efficient microscopy while inheriting the highly reliable optical performance of ECLIPSE TS100. Emboss Contrast, Nikon's newly developed contrast observation method is easy to operate, making for more efficient cell observation, enhancing use for basic research in medical and biological fields.</p>	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
4	AIETSM	J-1/GF- 20	Wet and Instruments Lab	Trinocular Microscope	Magnus (Stereozoom MSZ-TR)	<p>The MSZ Series of Microscope is the first in a new series of stereo microscope designed to bring greater flexibility and performance to work stations. With the option of top & bottom halogen or LED illumination, and highly ergonomic stand. This microscope is perfect for Biological & Industrial use.</p> <p>Optical Body: Trinocular Body Zoom Ratio: 17 Objective Zoom Range: 0.65x-4.5x EyepiecesSWF 10x/22mm (High eye-point Super Widefield Eyepieces)</p>	
5	AIETSM	J-1/GF- 20	Wet and Instruments Lab	BOD Incubator	Khera	<p>Low Temp Incubator fitted with CFC free Refrigeration system. Temp.Range:5 to 50°C Temp. controlled with Digital Temp. Controller Double Walled, outer chamber of M.S. duly enamel painted, inner chamber of S.S. Fitted with glass window or glass door. Chamber Size :(H x W x D) : 950 x 650 x 550 mm 12 c ft.</p>	
6	AIETSM	J-1/GF- 20	Wet and Instruments Lab	Digital Turbidity meter	Khera	<p>DIGITAL TYPE Range 0-1000 JTU, Resolution 1 JTU, Accuracy + 2%, 3.5 digits operate on mains.</p>	
7	AIETSM	J-1/GF- 20	Microbial Lab	Autoclave verticle (500x300)	Khera	<p>Double walled, complete with ON/OFF switch, water level, Radial locking device, Pedal lifting Device, pressure auage, steam release valve and indicator to show the working of mains control sstem, Electrically operated on 220V AC with S.S Basket working pressure 5-20 lb per sq. inch. with Automatic pressure switch. Ht x Dia :550 x 350mm Rating: 3.0 KW</p>	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
8	AIETSM	J-1/GF- 20	Wet and Instruments Lab	Laboratory centrifuge machine	Khera/kiI199 (d)	With stepless speed control, pilot indicator lamp.0-99 minutes digital Preset timer & Digital speed meter Capacity: 200 ml, Max Speed: 5000 RPM, Max. RCF 3650xg Rotor Heads: 8 x 15 ml Swing out rotor Head, metal carrier, glass tubes & Rubber cushions	
9	AIETSM	J-1/GF- 20	Wet and Instruments Lab	Hot Air Oven	Khera/KI181 ©	Digital Type,Double walled, outer body made of MS, inner made of SS and is provided with ribs for adjusting trays at any height. Three side heating with beaded elements made of high quality Nickle/chrome plated nichrome wire, Temp. Range 50 to 250°C +/- 1 °C with air circulation Fan. controlled with capillary type Thermostat. Provided with digital thermometer and air ventilators on the both sides. No. of Trays: 2 Chamber Size: 455 x 605 x 455 mm	
10	AIETSM	J-1/GF- 20	Wet and Instruments Lab	Vortex Mixer	REMI (CM 101)	Vortex Mixer is designed for mixing liquids in Laboratories Touch/ Continuous Operation mode Selection through bi-directional Switch Speed Regulation through knob provided on the control panel Interchangeable mixing heads for use with variety of tubes. Supplied with all interchangeable mixing heads	
11	AIETSM	J-1/GF- 20	Wet and Instruments Lab	Conductivity Meter	Deluxe Conductivity Meter	Conductivity Meter	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
12	AIETSM	J-1/GF- 20	Wet and Instruments Lab	TDS Meter	Deluxe TDS Meter	TDS Meter	
13	AIETSM	J-1/GF- 20	Wet and Instruments Lab	pH Meter	Labman	pH Meter is a high precision pH meter with large backlit LCD display. The meter can displays many useful prompt messages to helps you quickly and easily measuring the samples. Features: Selectable pH buffer standards and temperature units	
14	AIETSM	J-1/GF- 20	Wet and Instruments Lab	Analytical Balance	Wensar (MAB 220)	<p>Product Description E.M.F.C. Technology RS232C Interface, LCD display Piece counting and percentage (%) counting DAB - External MAB - Internal,Calibration</p> <p>Product Specification:- Brand Name : Wensar Number Of Items : 1 Readability : 0.1 mg</p>	
15	AIETSM	J-1/GF- 21	Wet and Instruments Lab	Sieve Shaker	Khera/ki127	Sieve Shaker for 30 cm Dia Sieves Hand operated	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
16	AIETSM	J-1/GF- 01	AIETSM Lab	Refrigerated Centrifuge	REMI (C-24 PLUS)	Rust proof, easy to clean Stainless Steel centrifuge inner chamber with steel guard. Specification:- Voltage : 220/240 V Frequency : 50 Hz Size : Tube Size: 100 ml Temperature Range : - 8 degree C Number Of Items : 1 No Load Speed : 2000 RPM	
17	AIETSM	J-1/GF- 01	AIETSM Lab	BOD Incubator	Laczene Biosciences	BOD Incubator	
18	AIETSM	J-1/GF- 01	AIETSM Lab	BOD Incubator	Laczene Biosciences	BOD Incubator Temp. Range: 5C - 60 C	
19	AIETSM	J-1/GF- 01	AIETSM Lab	TRANSILLUMINATOR	SLISCO	TRANSILLUINATORS for slab gel electrophoresis, Thin layer Chromatography, Forensic examination & D.N.A. Analysis/Experimentation	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
20	AIETSM	J-1/GF- 01	AIETSM Lab	COMET ASSAY	TARSONS	For Comet Tunel Assay	
21	AIETSM	J-1/GF- 01	AIETSM Lab	Electrophoresis Unit	TARSONS	Use for electrophoresis	
22	AIETSM	J-1/GF- 01	AIETSM Lab	Microprocessor Flame Photometer	VSI Electronics (VSI-603/604)	<p>These are used for the determination of sodium, potassium, calcium and lithium. They use the latest microcontroller technology and advanced engineering techniques so as to give enhanced and reproducibility. They have soft touch membrane key for ease of operations. These Flame Photometers come with two filters Sodium (Na) & Potassium (K). Calcium (Ca) & Lithium (Li) Filters or Barium (Ba) are optional available at extra cost.</p> <p>Features: Microprocessor Based with Printer Interface Four Measurements in Single Aspiration Setup Storage Facility, Sample Data Storage Facility Curve Calibration Programmability Using Maximum of 5 Standards, Multiple Calibration Curve Saving Facility Data Processing Through Curve Fitting Techniques, Least Square, Quadratic, Online Help Key, Direct Results in ppm and meq, Useful for Medical & Soil Testing</p>	
23	AIETSM	J-1/GF- 01	AIETSM Lab	Homogenizer	REMI (CT-127 A)	QT-127 A - Homogenizer (Stirring Capacity Upto 100 ML, Motor-AC/DC 1/8 HP)	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
24	AIETSM	J-1/GF- 01	AIETSM Lab	Magnetic Stirrer (with Hotplate)	REMI (2 MLH)	Magnetic Stirrer with Hotplate	
25	AIETSM	J-1/GF- 01	Electro Magnetic Radiation Lab	Electro Magnetic Radiation Setup		Electro Magnetic Radiation Setup for Experimental use	
26	AIETSM	J-1/GF- 21	Wet and Instruments Lab	Soxhlet extraction Unit	RI 155	No of test : 6	
27	AIETSM	J-1/GF- 21	Microbial Lab	Laminar flow bench	Khera	Horizontal Laminar Air Flow Bench	
28	AIETSM	J-1/GF- 21	Microbial Lab	Weighing Balance	Gold Face	Weighing Balance	




Amity Institute of Forensic Sciences (AIFS)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
1	AIFS	J1 - 417 Fourth Floor	Research Lab	Zoom stereo microscope	Olympus/SZ 51	<p>Comfort View features pupil aberration control and appropriate positioning at the eye point. The result is a field of view that is easy to find, comfortable to view, and easy to maintain.</p> <p>Magnification range: (using 10x eyepieces) SZ51 8.0x-40x; zoom ratio 5:1</p> <p>The 10° angle of convergence in the Greenough optical system secures excellent image flatness with a large depth of field. Either a 45° or 60° inclination tube.</p>	
2	AIFS	J1 - 417 Fourth Floor	Research Lab	Thermal Cycler	Lark/LI25	<p>Block Capacity 25x0.2ml + 16x0.5ml</p> <p>Non Gradient</p> <p>Program Memory 100</p> <p>Dimension (LxWxH) 267x220x253mm</p> <p>Net Weight 3.6kg</p>	
3	AIFS	J1 - 417 Fourth Floor	Forensic Chemistry & Toxicology	Calorimeter	Elico/CL-157	<p>Stable, Direct Readout of Absorbance</p> <p>Compact & Easy to operate</p> <p>Rugged, Sturdy & Reliable</p> <p>Thumb Wheel Selection of Filters</p> <p>Pre-focussed Light Source</p> <p>Long Life Photo Diode Detector</p> <p>Only 1 ml of Sample need</p> <p>Usable for Disposable cells</p>	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
4	AIFS	J1 - 417 Fourth Floor	Forensic Chemistry & Toxicology	Digital Photo Colorimeter	Galaxy	Smooth operations, easy installations and simple operations. Demanded immensely in hospitals and medical institutions, these calorimeters are offered by us at economical prices. Efficient Longer working life Digital mete	
5	AIFS	J1 - 417 Fourth Floor	Forensic Chemistry & Toxicology	Densitometer	Systronics/205	Used to quantify electrophoretically separated bands from electrophoreses as serum protein, in 5 bands by default value and Hemoglobin, Lipoprotein etc. in N-band mode.	
6	AIFS	J1 - 417 Fourth Floor	Forensic Chemistry & Toxicology	Spectrophotometer	Elico - SL-218	Range 190 to 1100 nm Bandwidth 2 nm PHOTOMETRIC Range:0 to 1.999 Abs. Repeatability:± 0.002 Abs. at 1.0 Abs. Stray light:- > 2.000 Abs at 200 nm with 1.2% KCl LIGHT SOURCE:-Duterium (D2) & Tungsten (W) Halogen Lamps MONOCHROMATOR:-Czerny -Turner type with 1200 lines/mm Holographic grating DETECTOR:-Wide Range Photodiode	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
7	AIFS	J1 - 417 Fourth Floor	Forensic Chemistry & Toxicology	Cooling Centrifuge	Remi/C-24BL	<p>Max. Speed(rpm):20000 Max. RCF'g':37570 Max. Tube Size(ml):100 Max. Capacity(ml): 400 Lowest Temp.°C :-8</p>	
8	AIFS	J1 - 417 Fourth Floor	Forensic Chemistry & Toxicology	Microscope	Olympus/BX 41	<p>UIS2 optical system Focus Vertical stage movement: 25mm stage stroke with coarse adjustment limit stop Torque adjustment for coarse adjustment knobs Stage mounting position variable High-sensitivity fine focusing knob(adjustment gradations: 1µm) Illuminator Built-in Kohler illumination for transmitted light 6V30W halogen bulb (pre-centered) Light preset switch Revolving nosepiece:Interchangeable reversed sextuple/quintuple nosepiece Observation tube:Widefield binocular, inclined 30° Widefield tilting binocular, inclined 5° - 35° Widefield trinocular, inclined 30° Widefield ergo binocular, inclined 0°-25° Super widefield trinocular, inclined 24° Condenser Abbe (N.A. 1.1), 4x-100x Swing out Achromat (N.A. 0.9), 1.25x-100x (swing out: 1.25x-4x) Achromatic Aplanat (N.A. 1.4), 10x-100x</p>	
9	AIFS	J1 - 417 Fourth Floor	Forensic Chemistry & Toxicology	Microscope	Magnus /MS 24	<p>Superior Optics for enhanced image flatness and contrast Ergonomic design for ease of operation Long working distance of 105 mm Parfocal objectives Body:Objective 2X/4X. 105mm Working Distance. +/- (left side) Diopter Adjustment Eyepieces:High Eyepoint Super Widefield eyepiece SWH 10X with Field Number 23 Field of View:Objective 2x, 4x. Visual field(mm)11.5, 5.7 Light Source:Reflected 6V 10W lamp with adjustable brightness. Transmitted 5W fluorescent lamp</p>	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
10	AIFS	J1 - 417 Fourth Floor	Forensic Chemistry & Toxicology	Opto Monocular Microscope	Magnus /MLX-M	With built-in 6V, 20W halogen illuminator, quadruple ball bearing nosepiece. Coaxial coarse & fine focusing controls. Co-axial low drive mechanical stage, substage Abbe condenser (NA 1.25) with iris diaphragm with rack and pinion. High resolution long barrel achromatic objectives 4X, 10X, 40X & 100X (spring, oil imm). Paired Widefield eyepiece WF10X. With a monocular observation head.	
11	AIFS	J1 - 417 Fourth Floor	Forensic Chemistry & Toxicology	UV Chamber	Gurunanak Inst.	This user-safe, self-contained light exposure chamber is compact enough to fit onto a benchtop. The unit features a lighting system which emits a peak wavelength at 365nm for use in the speedy curing of UV activated materials. Optional lamps allow curing of a variety of light activatable formulas. The unit also features a programmable digital timer, power-down mode, and an exposure-completion audio indicator. The chamber comes standard with a rotating clear turntable and shelf, both made of a highly reflective material which facilitates even light distribution. The inner walls are specially coated to provide optimum light distribution and to eliminate shadows throughout. The result is full uniform exposure around 360°. Clear viewing window (open/close via hinged door) to facilitate defect inspection.	
12	AIFS	J1 - 417 Fourth Floor	Forensic Chemistry & Toxicology	Muffle Furnace		Muffle Furnace	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
13	AIFS	J1 - 418 Fourth Floor	Forensic Questioned Document & Fingerprint Lab	Cary Eclipse Fluorescence Spectrometer	Agilent Technologies	<p>The Agilent Cary Eclipse fluorescence spectrometer is sensitive, accurate, and flexible. Ideal for use as a routine fluorometer, the Cary Eclipse can easily be switched between fluorescence, phosphorescence, chemiluminescence, and bioluminescence measurements. Additional flexibility can be achieved through various accessories, including temperature control and solid sample handling, automatic polarizers, and a microplate reader for high sample throughput.</p> <p>The Cary Eclipse fluorescence spectrometer is ideal for fluorescent measurements in life sciences and biotechnology, with high sensitivity and inherent bleaching protection for photosensitive samples. Fast data collection enables kinetics measurements, while fiber optics allow for remote sample measurements.</p>	
14	AIFS	J1 - 418 Fourth Floor	Forensic Questioned Document & Fingerprint Lab	Single Cell Peltier Accessory	Agilent Technologies (SPV-1XO)	<p>The Peltier Cell Holder to perform temperature controlled measurements for a single sample and reference</p> <p>Temperature control precision ± 0.1 °C</p> <p>Temperature range 0-100 °C</p>	
15	AIFS	J1 - 418 Fourth Floor	Forensic Questioned Document & Fingerprint Lab	pH Meter	Labman (LMPH 10)	<p>LMPH-10 pH Meter is a high precision pH meter with large backlit LCD display.</p> <p>The meter can displays many useful prompt messages to helps you quickly and easily measuring the samples.</p>	

Amity Institute of Horticulture Studies & Research (AIHSR) and Amity International Centre for Post Harvest Technology & Cold Chain Management (AICPHTCCM)





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
1	AICPHTCCM	J-1 /LG-05	Low Temperature Storage Room/Ripening Lab	CoolBot Cool Room	Bluestar	<p>Temperature Range :- Upto 4 degree C CoolBot window air conditioner Easily installed, cost effective Low power consumption Environment friendly i.e. low carbon emission Reliable, energy-efficient refrigeration units Timer-based electrically operated ventilation systems and exhaust fans High CFM evaporators to ensure uniform airflow inside the chamber Gas-emission systems for flexible, large-scale ripening processes Ethylene generators for sequential ripening solutions Humidifiers to maintain high humidity throughout the ripening cycle CO2 and ethylene analysers to monitor carbon dioxide levels*</p> <p>Typical conditions for ripening banana Fruit temperature :14 to 180c Relative humidity: 90-95% Ethylene concentration: 100-150 ppm Duration of exposure to ethylene: 24-48 hrs Carbon dioxide: <1%</p> <p>Typical conditions for ripening Mango Fruit temperature :20 to 220c Relative humidity: 90-95% Ethylene concentration: 100-150 ppm Duration of exposure to ethylene: 12-24 hrs Carbon dioxide: <1%</p>	 
2	AICPHTCCM	J-1 /LG-03	PHT Lab/ Instrumentation Lab	Ripening Chamber	Blue Star (F/PROD/CR/01/00)	<p>A ripening chamber is a specialized facility designed to control and accelerate the ripening process of fruits and vegetables, particularly climacteric fruits like bananas, mangoes etc.</p>	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
3	AICPHTCCM	J-1 /LG-03	PHT Lab/ Instrumentation Lab	Microscope Primo Star	ZEISS (Primo Star)	Primo Star is a digital classroom microscope - designed with long-term use and extreme durability in mind. With Primo Star and the integrated HD streaming camera in conjunction with the iPad App Labscope from ZEISS, you can connect several microscopes in your classroom to a network. Doing so makes teaching easy and will help your students learn quickly and effortlessly	
4	AICPHTCCM	J-1 /LG-03	PHT Lab/ Instrumentation Lab	Mechanical Dryer		Mechanical Dryer	
5	AICPHTCCM	J-1 /LG-03	PHT Lab/ Instrumentation Lab	Hot Air Oven		Hot Air Oven	
6	AIHSR	J-1 /LG-03	PHT Lab/ Instrumentation Lab	Ice flaker machine	Labman(LMIF-30)	<p>Ice flaker machine Capacity: 30kg Frequency: 50Hz CFC Free Compressor</p> <p>Salient Features</p> <ul style="list-style-type: none"> · Fully Automatic Microprocessor Control · Stainless Steel Construction · Continuous ICE Flakes output · CFC free compressor · Low water level indication · Overload protection · Noiseless operation · Compact Design and low maintenance 	

Amity Institute of Phytochemistry & Phytomedicine (AIP&P)




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
1	AIP&P	J-1/LG-14	Research Lab	Microprocessor UV-VIS Spectrophotometer	VSI (VSI-501)	Function: Basic, Wavelength Scan, Multi Wavelength, Kinetics, Quantitative, DNA/Protein Wavelength Range: 190 – 1100 nm Spectral Bandwidth: 1.0 nm Optical System: Double Beam, Grating 1200 lines/mm Wavelength Accuracy: + 0.3 nm Wavelength Repeatability: + 0.2 nm. Scanning Speed: HI, MED & LOW. Maximum 3600 nm/min. Photometric Range: -0.3 to 3 A, 0 to 200 %T, 0 to 9999 C Photometric Accuracy: + 0.3 %T or + 0.002 A/h @ 1A Photometric Reproducibility: <0.15% T Stray Light: < 0.05 %T @ 220nm & 340nm Stability: <0.001 A/hour @ 500nm, after warming up Baseline Flatness: + 0.001 A/h (200 - 1000 nm) Sample Compartment: 8 Cell with automatic cell changer - 10mm. path length Light Source: Halogen & Deuterium Lamps (Pre-Aligned) Noise: + 0.001A (at 500nm, after warming up) Detector: Dual Silicon Photodiode	
2	AIP&P	J-1/LG-14	Research Lab	Vacuum Oven	Macflow Engg Pvt Ltd.	Vacuum Oven	
3	AIP&P	J-1/LG-14	Research Lab	Water Bath		Water Bath	
4	AIP&P	J-1/LG-14	Research Lab	Magnetic Stirrer	REMI (5MLH)	Remi Magnetic Stirrer Model: 5MLH is Fitted with PMDC Motor wich gives higher torque even at low speeds. Better speed regulation even with small volume and low speeds Digital speed indicator for display of stirring speed. Accurate stepless speed control maintains excellent speed stability. Totally enclosed unit, Designed for use even in corrosive atmosphere.	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
5	AIP&P	J-1/LG-14	Research Lab	Homogeniser	REMI	Brand: Remi Material: Stainless Steel Voltage: 220 V	
6	AIP&P	J-1/LG-14	Research Lab	Muffle Furnace	Bio Technologies	Muffle Furnace	
7	AIP&P	J-1/LG-14	Research Lab	UV Chamber		UV Chamber	
8	AIP&P	J-1/LG-14	Research Lab	Infrared Moisture Analyzer	Sartorius (MA 35)	Infrared Moisture Analyzer	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
9	AIP&P	J-1/LG-14	Research Lab	Weighing Balance	Sartorius (CP 225D)	<p>CAPACITY RESOLUTION 210 g x 0.01 mg RESOLUTION 2 UOM mg REPRODUCIBILITY $\pm .02/.05/.1$ mg LINEARITY 0.03/0.2 mg RANGE CAPABILITY Dual-Range PAN DIMENSIONS 3.1 in diameter CALIBRATION WEIGHT Internal or external 200g CHAMBER DIMENSIONS 6.7 x 8.2 x 9.1 in DATA INTERFACERS 232 AVERAGE RESPONSE TIME 12/3 seconds FEATURES INTERNAL CALIBRATION WEIGHT CORNER TEST WEIGHT 100 g CORNER TOLERANCE 0.2 mg CALIBRATION WEIGHT CLASSE 2 EXPLOSION PROOF WEIGHING 12/3 seconds</p>	
10	AIP&P	J-1/LG-14	Research Lab	Oven		Oven	
11	AIP&P	J-1/LG-14	Research Lab	pH meter	BR BIOCHEM	<p>Model: PHS-25CW pH Range: 0.00 to 14.00 pH pH Accuracy: ± 0.05 pH Resolution: 0.01 pH mV Range: -1999 to +1999 mV mV Resolution: 1 mV Calibration: 2-point push-button calibration with auto-buffer recognition Calibration Solutions: USA buffers (pH 4.01, 7.00, 10.01) Temperature Compensation: Manual, 0–100°C Display: White backlit LCD Power Supply: DC 9V / 400 mA adapter Connector: BNC</p>	
12	AIP&P	J-1/LG-14	Research Lab	Magnetic Stirrer	REMI (2MLH)	<p>Remi Magnetic Stirrer Model: 2MLH is Fitted with PMDC Motor which gives higher torque even at low speeds. Better speed regulation even with small volume and low speeds Digital speed indicator for display of stirring speed. Accurate stepless speed control maintains excellent speed stability. Totally enclosed unit, Designed for use even in corrosive atmosphere.</p>	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
13	AIP&P	J-1/LG-14	Research Lab	Magnetic Stirrer	REMI (2MLH)	<p>Remi Magnetic Stirrer Model: 2MLH is Fitted with PMDC Motor which gives higher torque even at low speeds.</p> <p>Better speed regulation even with small volume and low speeds</p> <p>Digital speed indicator for display of stirring speed.</p> <p>Accurate stepless speed control maintains excellent speed stability.</p> <p>Totally enclosed unit, Designed for use even in corrosive atmosphere.</p>	
14	AIP&P	J-1/LG-14	Research Lab	Rotary evaporator with vacuum pump and circulating water bath	Model: IG-RE-100Pro Igene Labserve	<p>Motor Type: Brushless DC motor</p> <p>Speed Range: 20–280 rpm</p> <p>Display: LCD (shows speed, temperature, and time)</p> <p>Rotation Direction: Supports both clockwise and anticlockwise rotation</p> <p>Heating Temperature Range: Room temperature to 180 °C</p> <p>Temperature Control Accuracy: ±1 °C</p> <p>Heating Power: 1300 W</p>	
15	AIP&P	J-1/LG-14	Research Lab	Incubator shaker	Model: ATIS124A Agile Technologies	<p>Shaker Speed: 20–250 RPM (options up to 500 RPM)</p> <p>Orbit Diameter: 25 mm</p> <p>Temperature Range: 5°C above ambient to 60°C; with cooling: 5°C–60°C</p> <p>Temperature Accuracy: ±0.3°C</p> <p>Power Supply: 230V ±10%, 50Hz</p>	

Amity Institute of Herbal Research & Studies (AIHRS)





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
1	AIHRS	J-1, LG-13	Research Lab	UV-Vis Spectrophotometer	Make- Labman	UV-VIS Spectrophotometer-Basic (Single Beam) Model-LMSP-UV1000B Optical System: Single Beam, Grating 1200 lines/mm Wavelength Range: 190-1100nm Bandwidth: 2nm Wavelength Accuracy: + 1nm Wavelength Setting: Auto	
2	AIHRS	J-1, LG-13	Research Lab	Laminar Air Flow	Laczene	Horizontal size 3x2x2 with complete accessories-work table, transparent sheet	
3	AIHRS	J-1, LG-13	Research Lab	BOD Incubator	Laczene	Chamber size: 505x415x830mm; Capacity 6 cubic feet, MS powder coated inner constructions, SS shelves	





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
4	AIHRS	J-1, LG-13	Research Lab	Weighing balance	REMI	can weigh upto 1kg material	
5	AIHRS	J-1, LG-13	Research Lab	Mechanical Stirrer	REMI	Suitable for chemical, biological and biotechnological applications in laboratories. Applications include mixing, dissolution and dispersion for media with low to moderate viscosity.	
6	AIHRS	J-1, LG-13	Research Lab	Clevenger Apparatus	Laczene	Clevenger Apparatus for oil heavier than water 1000ml	


S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
7	AIHRS	J-1, LG-13	Research Lab	Hot Air Oven	Laczene	18"x18"x18" with temp 50degree & above	
8	AIHRS	J-1, LG-13	Research Lab	Autoclave	Laczene	Vertical Autoclave fully automatic outer & inner stainless steel (14x22 inch)	
9	AIHRS	J-1, LG-13	Research Lab	Soxhlet Extraction Apparatus	Laczene	Extraction Apparatus Soxhlet complete with Allihn condenser, Interchangeable joint	






S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
10	AIHRS	J-1, LG-13	Research Lab	Heating Mantle	Ambassador	heating mantle with thermostat capacity 1L capacity	
11	AIHRS	J-1, LG-13	Research Lab	Vaccum Rotary Evaporator	Laczene	Rotary Evaporator with standard Glass Parts, & Digital Water bath, speed of rotation will adjust by knob	
12	AIHRS	J-1, LG-13	Research Lab	pH Meter	REMI	Digital pH Meter 0 -14.00 pH	






AMITY INSTITUTE OF HEALTH ALLIED SCIENCES (DoPT,DoPAS,DoOT)





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
1	Amity Institute of Health Allied Sciences(DoPT)	F-1 Lower Ground Floor	Functional Diagnosis Lab /Room No. 12	EMG/EP/NCV/Biofeedback	Neurostim (4 Channel)/Medicaid	<p>The equipment has facilities for performing and analyzing data for following tests.</p> <ol style="list-style-type: none"> 1. Nerve Conduction Studies with Constant current stimulator (MCS, NCS, F wave, H reflex, Blink reflex, RNST, & Inching studies – user should be able to pre configure more than 40 examinations in ANS option. 2. Evoked Potentials: Visual Evoked Potentials with Pattern and LED goggles (ERG, EOG PRVEP & LEDVEP) – EOG velocity waveform display with original EOG signal. o Somatosensory Evoked potentials with signal triggering and back averaging 3. EMG (Free run needle EMG, MUAP analysis, Interference pattern, Auto MUP detection and classification, and real time turn 4. Biofeedback 	
2	AMITY INSTITUTE OF HEALTH ALLIED SCIENCES(DoPAS)	F-1/ LGF	Advance Physiology Lab	PCR Instrument	Agilent	Used for polymerase chain reaction for amplification of DNA	
3	AMITY INSTITUTE OF HEALTH ALLIED SCIENCES(DoPAS)	F-1/ LGF	Advance Physiology Lab	Midi Submarine Electrophoresis Tray	Tarson	used to run DNA agarose gel electrophoresis	
4	AMITY INSTITUTE OF HEALTH ALLIED SCIENCES(DoPAS)	F-1/ LGF	Advance Physiology Lab	Gel caster for submarine electrophoresis	Tarson	used to cast the agorse gel	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
5	AMITY INSTITUTE OF HEALTH ALLIED SCIENCES(DoPAS)	F-1/ LGF	Advance Physiology Lab	UV Transilluminator	Relitech	used to see the DNA Bands in Agorose Gel	
6	AMITY INSTITUTE OF HEALTH ALLIED SCIENCES(DoPAS)	F-1/ LGF	Advance Physiology Lab	Refrigerated Microcentrifuge	Remi	used for centrifugation at controlled temperature	
7	AMITY INSTITUTE OF HEALTH ALLIED SCIENCES(DoPAS)	F-1/ LGF	Advance Physiology Lab	Micropipettes Set	Corning	Used for handling micro litre volumes of liquid.	
8	AMITY INSTITUTE OF HEALTH ALLIED SCIENCES(DoPAS)	F-1/ LGF	Advance Physiology Lab	Magnetic stirrer with hot plate	Relitech	Used for mixing solutions	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
9	AMITY INSTITUTE OF HEALTH ALLIED SCIENCES(DoPAS)	F-1/ LGF	Advance Physiology Lab	Weighing balance	Wensar	used for measuring wight of chemicals	
10	AMITY INSTITUTE OF HEALTH ALLIED SCIENCES(DoPAS)	F-1/ LGF	Advance Physiology Lab	pH Meter	Relitech	Used for measuring of pH of solutions	
11	AMITY INSTITUTE OF HEALTH ALLIED SCIENCES(DoPAS)	F-1/ LGF	Advance Physiology Lab	Deep Freezer	Celfrost	Used for preserving samples at -20°C	
12	AMITY INSTITUTE OF HEALTH ALLIED SCIENCES(DoPAS)	F-1/ LGF-12A	APPLIED PHYSIOLOGY LAB	Computerised Biofeedback	AALE0831	Used for performing HRV and ECG tests	
13	AMITY INSTITUTE OF HEALTH ALLIED SCIENCES(DoPAS)	F-1/ LGF-12A	APPLIED PHYSIOLOGY LAB	Microtome	RMT220	Uses for section cutting of tissue samples	

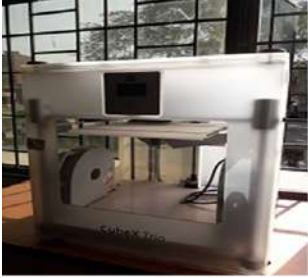



S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
14	AMITY INSTITUTE OF HEALTH ALLIED SCIENCES(DoPAS)	F-1/ LGF-12A	APPLIED PHYSIOLOGY LAB	Microscope	AJ-11	Used for enlarge view of tissue sections	
15	AMITY INSTITUTE OF HEALTH ALLIED SCIENCES(DoPAS)	F-1/ LGF-12A	APPLIED PHYSIOLOGY LAB	Vortex	RT455	Used for mixing samples	
16	AMITY INSTITUTE OF HEALTH ALLIED SCIENCES(DoPAS)	F-1/ LGF-12A	APPLIED PHYSIOLOGY LAB	Hotplate	RT440	Used for heating solutions	
17	AMITY INSTITUTE OF HEALTH ALLIED SCIENCES(DoPAS)	F-1/ LGF-12A	APPLIED PHYSIOLOGY LAB	Vibration meter	VB-8201HA	used for measuring the displacement, velocity, or acceleration of a vibrating body.	
18	AMITY INSTITUTE OF HEALTH ALLIED SCIENCES(DoPAS)	F-1/ LGF-12A	APPLIED PHYSIOLOGY LAB	Refrigerator	Arctic steel 3s 20677	Used for storing of chemical and samples	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
19	AMITY INSTITUTE OF HEALTH ALLIED SCIENCES(DoPAS)	F-1/ LGF-12A	APPLIED PHYSIOLOGY LAB	Microwave	sw13899	Used for heating and making agrose gel	
20	AMITY INSTITUTE OF HEALTH ALLIED SCIENCES(DoPAS)	F-1/ LGF-12A	APPLIED PHYSIOLOGY LAB	Waterbath		Used for incubation in temprature controlled water	
21	AMITY INSTITUTE OF HEALTH ALLIED SCIENCES(DoPAS)	F-1/ LGF-12A	APPLIED PHYSIOLOGY LAB	Centrifuge		Used for centrifugation of samples	
22	AMITY INSTITUTE OF HEALTH ALLIED SCIENCES(DoPAS)	F-1/ LGF-12A	APPLIED PHYSIOLOGY LAB	Incubator		Used for incubating samples and solutions at controlled temperature	
23	AMITY INSTITUTE OF HEALTH ALLIED SCIENCES(DoPAS)	F-1/LG02	AIHAS/DoPAS Research lab	Fluorescence Microscope with 2.3 MP and fluorescent attachments	Magnus	for fluorescence microscopy	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
24	AMITY INSTITUTE OF HEALTH ALLIED SCIENCES(DoPAS)	F-1/LG02	AIHAS/DoPAS Research lab	laminar Hood	Indegenous	for doing cell culture	
25	AMITY INSTITUTE OF HEALTH ALLIED SCIENCES(DoPAS)	F-1/LG02	AIHAS/DoPAS Research lab	UV/Vis Spectrophotometer	Labman	for quantification of different analytics	
26	AMITY INSTITUTE OF HEALTH ALLIED SCIENCES(DoPAS)	F-1/LG02	AIHAS/DoPAS Research lab	Co2 incubator	Thermofisher	for cell/tissue culture	
27	AMITY INSTITUTE OF HEALTH ALLIED SCIENCES(DoPAS)	F-1/LG02	AIHAS/DoPAS Research lab	inverted tissue culture trinocular microscope	magnus	for cell/tissue culture	

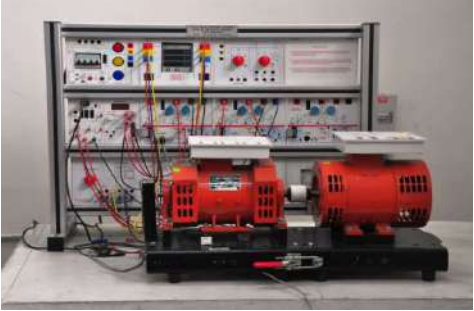
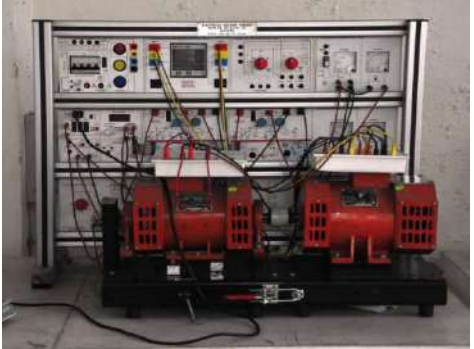
Amity School of Engineering and Technology (ASET)


S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
1	Amity School of Engineering and Technology (ASET)	Block- E-1, G-08 A	Mechatronics	Hydraulic Trainer Kit	ADM	It can be used as a Live Demonstrator to show functioning of various hydraulic components and control circuits. Operating pressure is kept at 20 bar for safety of the students. The components / equipments are mounted on an ergonomically designed mobile metal trolley with drip tray. The power pack is mounted at the bottom. The components are permanently mounted on the working area. Quick Release Couplings are used on the components and hoses for fast and easy connections.	
2	Amity School of Engineering and Technology (ASET)	Block- E-1, G-08 A	Mechatronics	Pneumatic Trainer Kit	ADM	Compact Ergonomic Design User Friendly, Self Explanatory Systems Leak proof Safety Measures, sturdy piping & Robust Construction Enhanced Electrical Safety Considerations Training Manuals mimic Charts for Operation Ease M.S. powder coated cubical plant with standard Instrument Assemblies Inbuilt Safety Measures to avoid improper usage Relay board logic circuit operation	
3	Amity School of Engineering and Technology (ASET)	Block- E-1, G-07	CAM LAB	CNC Trainer Milling Machine	M/s Hytech Education Equipment Pune	3 Axis Machine CNC Mill Trainer with Tool changer	




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4	Amity School of Engineering and Technology (ASET)	Block- E-1, G-07	CAM LAB	3D Printer	M/s Creative Tools	3D Printer Three Nozzle	
5	Amity School of Engineering and Technology (ASET)	Block- E-2, LG-02A	Mechanics of Solids	Impact Testing Maching	Engg. Models & Equip., Roorkee	Pendulum impact testing machine: mechanical version <ul style="list-style-type: none"> Capacity 30 kgm (300 joules) Least count 0.2 kgm Designed for conducting izod and charpy test. The energy utilized to break izod or charpy specimen is directly indicated by the pointer. Confirms to IS 1598, IS 1757, IS 1499 & BS 131 	
6	Amity School of Engineering and Technology (ASET)	Block- E-2, LG-02A	Mechanics of Solids	Universal Testing Machine (100Kn)	Accurate Scientific International	Unit:- 100 KN Test Speed :-0.5~1000mm/min (control by keyboard input) Test range :-400mm MAX Accuracy:- ±0.5% or better Motor :-Servo Motor Power:- 1,220V/50HZ	
7	Amity School of Engineering and Technology (ASET)	Block- E-2, LG-02A	Mechanics of Solids	Spring Testing Machine	Engineering models & Equipment	CAPACITY: 5000 KGF: MANUAL <ul style="list-style-type: none"> Used for testing/measuring the compression, tension and retraction of springs Has linear least count of 100 grams for load and 0.1 mm for displacement throughout the range of 0 to 5 KN. Manually/Electrically operated. Displacement for accurately measuring the deflection and expansion of springs. Test height of 15 inch and is capable of holding springs of O.D. up to 8 inch. Testing Speed : 40mm/sec Max . Operating pressure : 250/kg/cm2 Motor HP: 5 - 7.5 HP Power supply : 3 phase, 415VAC ± 6%50HZ ± 3% 4 	





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8	Amity School of Engineering and Technology (ASET)	Block- E-2, LG-02A	Mechanics of Solids	Rockwell and Brinell Hardness Testing Machine (50 kgm)	Engineering models & Equipment	<p>The machine is a combined version, wherein Rockwell Hardness under A, B and C Scales and Brinell Tests can be conducted.</p> <p>The machine is supplied complete with ball and diamond indenters together with Test Block for HRB and HRC Scales and Ball Indenter for Brinell Hardness test together with an illuminating type Brinell Microscope complete with a BHN Conversion Table.</p> <p>LOAD RANGE :- 60,100,150,187.5 & 250 kgf.</p> <p>MAX.TEST HEIGHT :- 295 mm</p>	
9	Amity School of Engineering and Technology (ASET)	Block- E-2, LG-02A	Mechanics of Solids	Torsion Testing Machine (50 kgm)	Engineering models & Equipment	<p>Capacity : 0 to 50 kgm.</p> <p>Range : ONE</p> <p>Rod to be tested : 8 to 20 mm.</p> <p>Load of Measurement : Torque and Twist will be read directly.</p> <p>Other provisions : Automatic stop in case of failure of specimen.</p>	
10	Amity School of Engineering and Technology (ASET)	Block- E-1, LG-04	Electrical Machine Lab I/ Power System Lab	Power Generation Trainer	Anshuman Tech Pvt Ltd (XPO-EMT)	<p>Input 3 phase DOL Starter panel (EMT1)</p> <p>4 pole MCB of 415 V/4A</p> <p>DOL 9A Contactor with 230V / 50Hz / 11VA Coil</p> <p>Bimetallic thermal O/L relay with range 1.4A - 2.3A</p> <p>Consist of 2 nos of (96x96mm) Digital meters one each for 3 ph. & 1 ph. Measures V, I, PF(0.2 lag unity 0.2 lead), Hz</p> <p>Current specs for 3 ph. meter = 5A (Balanced load) and 1A/5A for 1ph. meter (170-250V)</p> <p>FWD/REV, 3 pole 3 way switch with center OFF, 6A/440V</p>	





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11	Amity School of Engineering and Technology (ASET)	Block- E-1, LG-04	Power System Lab	Power Transmission Line Trainer	Anshuman Tech Pvt Ltd (XPO-PET/TL)	Power Transmission Line Trainer need a few set of associated panels (7-8 nos. typically) which are mounted in a light weight sturdy aluminum profile flat demo panel system. Facilitates easy and safe wiring by students due to use of 4mm sturdy Shrouded banana patch cords and shrouded socket arrangements for high voltage circuits,	
12	Amity School of Engineering and Technology (ASET)	Block- E-1, LG-04	Power System Lab	Percentage Biased Differential Relay Trainer	Anshuman Tech Pvt Ltd (XPO-PET/PR/11)	Consisting of voltage injector, current injector, elapsed time counter (1 msec resolution), trip relay logic etc. The Trainer need a few set of associated relay testing (current / voltage injection etc.) panels (7-8 nos. typically) which are mounted in a light weight sturdy aluminum profile flat demo panel system. Do not need any separate testing kit. Facilitates easy and safe wiring by students due to use of 4mm sturdy Shrouded banana patch cords and shrouded socket arrangements for high voltage circuits	
13	Amity School of Engineering and Technology (ASET)	Block- E-1, LG-04	Power System Lab	IDMT Over Current Relay Trainer	Anshuman Tech Pvt Ltd(XPO-PET/PR/111)	Consisting of voltage injector, current injector, elapsed time counter (1 msec resolution), trip relay logic etc. The trainer need a few set of associated relay testing (current / voltage injection etc.) panels (7-8 nos. typically) which are mounted in a light weight sturdy aluminum profile flat demo panel system. Do not need any separate testing kit. Facilitates easy and safe wiring by students due to use of 4mm sturdy Shrouded banana patch cords and shrouded socket arrangements for high voltage circuits	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
14	Amity School of Engineering and Technology (ASET)	Block- E-1, LG-04	Electrical Machine Lab I	Electrical Machine Trainers with DC Int. & 3 Ph. Salient Pole Machine	Anshuman Tech Pvt Ltd(XPO-EMT/DC+3Ph. Salient)	<p>Trunnion mounted DC Integrated machine is used as Dynamometer for loading other machines (Motors / generators both) with facility to measure shaft power using electronic torque / speed measurement.</p> <p>1 phase AC integrated motor coupled to DC integrated motor setup (Motor-Generator setup):</p> <p>1) 3 Phase Salient pole alternator :</p> <p>Voltage: 415VAC, 50Hz</p> <p>Capacity: 300W/4 pole/ 1500RPM</p> <p>Frame/mounting: 100 frame, chassis mounted, 19mm shaft dia with easily swappable gear coupling.</p> <p>2) DC Integrated motor:</p> <p>Voltage: Varm = 180V, Vfield = 180V</p> <p>Capacity: 300W/2 pole/ 1500RPM/6 terminals</p> <p>Frame/mounting: 100 frame, chassis mounted, 19mm shaft dia, trunnion mounted m/c for use as dynamometer with torque & speed sensors.</p>	
15	Amity School of Engineering and Technology (ASET)	Block- E-1, LG-04	Electrical Machine Lab I/ Power System Lab	Electrical Machine Trainers with DC Int. & 3 Ph. AC Machine	Anshuman Tech Pvt Ltd(XPO-EMT/DC+3Ph. AC)	<p>Motor Specification:</p> <p>3 phase AC integrated motor coupled to DC integrated motor setup (Motor-Generator setup):</p> <p>1) 3 AC Integrated motor with following specification:</p> <p>Voltage: 415VAC, 50Hz, Capacity: 300W/4 pole/ 1500RPM</p> <p>Frame/mounting: 100 frame, chassis mounted, 19mm shaft dia with easily swappable gear coupling.</p> <p>2) DC Integrated motor with following specification:</p> <p>Voltage: Varm = 180V, Vfield = 180V</p> <p>Capacity: 300W/2 pole/ 1500RPM/6 terminals</p> <p>Frame/mounting: 100 frame, chassis mounted, 19mm shaft dia, trunnion mounted m/c for use as dynamometer with torque & speed sensors.</p>	





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16	Amity School of Engineering and Technology (ASET)	Block- E1, LG-10	Automotive Engineering	IC Engine- Petrol	EDU TEK	<p>The setup consists of single cylinder, four stroke, VCR (Variable Compression Ratio) Petrol engine connected to eddy current / Hydraulic type dynamometer for loading. A tilting cylinder block arrangement is used for varying the compression ratio without stopping the engine and without altering the combustion chamber geometry. Setup is provided with necessary instruments for combustion pressure and crank-angle measurements. These signals are interfaced to computer through engine indicator for P PV diagrams. Provision is also made for interfacing airflow, fuel flow, temperatures and load measurement. The set up has stand-alone panel box consisting of air box, two fuel tanks for duel fuel test, manometer, fuel measuring unit, transmitters for air and fuel flow measurements, process indicator and engine indicator. Rotameters are provided for cooling water and calorimeter water flow measurement.</p> <p>The setup enables study of VCR engine performance for brake power, indicated power, frictional power, BMEP, IMEP, brake thermal efficiency, indicated thermal efficiency, Mechanical efficiency, volumetric efficiency, specific fuel consumption, A/F ratio and heat balance.</p>	
17	Amity School of Engineering and Technology (ASET)	Block- E1, LG-10	Automotive Engineering	IC Engine- Diesel	EDU TEK	<p>The setup consists of single cylinder, four stroke, VCR (Variable Compression Ratio) Diesel engine connected to eddy current / Hydraulic type dynamometer for loading. A tilting cylinder block arrangement is used for varying the compression ratio without stopping the engine and without altering the combustion chamber geometry. Setup is provided with necessary instruments for combustion pressure and crank-angle measurements. These signals are interfaced to computer through engine indicator for P PV diagrams. Provision is also made for interfacing airflow, fuel flow, temperatures and load measurement. The set up has stand-alone panel box consisting of air box, two fuel tanks for duel fuel test, manometer, fuel measuring unit, transmitters for air and fuel flow measurements, process indicator and engine indicator. Rotameters are provided for cooling water and calorimeter water flow measurement.</p> <p>The setup enables study of VCR engine performance for brake power, indicated power, frictional power, BMEP, IMEP, brake thermal efficiency, indicated thermal efficiency, Mechanical efficiency, volumetric efficiency, specific fuel consumption, A/F ratio and heat balance.</p>	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
18	Amity School of Engineering and Technology (ASET)	Block- E-1, LG09	Fluid Power Systems/ Fluid Mechanics Lab	Francis Turbine Test Rig (Close Kit)	Engg. Models & Equip., Roorkee	Smw francis turbine horizontal type of size 75mm, develop about 1kw output, made of cast iron spiral casing, bearing housing and aerofoil shaped gun metal guide vane and gun metal runner. Transparent outlet pedestal with stainless steel draft tube. The cast iron external bearing pedestal for longer bearing life. A cast iron base plate and a slotted dead weights for conducting experiments in metric units. Pressure gauge for head measurement in meters. 200mm dia cast iron water cooled brake drum mounted on the main shaft with bearings for load test. The head of the turbine is 10meters and discharge at about 1000 lpm.	
19	Amity School of Engineering and Technology (ASET)	Block- E-1, LG09	Fluid Power Systems/ Fluid Mechanics Lab	Kaplan Turbine Test Rig.	Sun Lab Tech Delhi	Test rig consists of a Kaplan turbine designed for laboratory experimental purposes and to conduct test in metric units. The specifications of the turbine are as follows: Design Speed - 1500 RPM. Capacity - 3.7 KW. (5.0 HP) Design Head and discharge - 7-10m., 4000-5000 lpm. The unit consists of a cast iron spiral casing, a bearing pedestal, a rotor assembly of shaft, axial flow gunmetal runner and brake drum all mounted on a suitable sturdy base.	
20	Amity School of Engineering and Technology (ASET)	Block- E-1, LG09	Fluid Power Systems/ Fluid Mechanics Lab	Pelton Wheel Turbine Test Rig (Close Kit)	Sun Lab Tech Delhi	Test rig consists of a Pelton wheel water Turbine, designed for laboratory experimental purposes and to conduct test in metric units. The specifications of the turbine are as follows:- Design Speed - 1000 RPM. Output Power - 1.0 KW	




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21	Amity School of Engineering and Technology (ASET)	Block- E-1, LG09	Fluid Mechanics Lab	Bernoulli's Apparatus		The equipment is designed and fabricated to demonstrate the Bernoulli's theorem. It consists of a test section made of acrylic. It had convergent and divergent sections. Pressure tapings are provided at different locations in convergent and divergent section. Present set-up is self contained water re-circulating unit, provided with a sump tank, centrifugal pump etc. An arrangement is done to conduct the experiment on different flow rates. Flow rate of water is measured with the help of measuring tank and stopwatch.	
22	Amity School of Engineering and Technology (ASET)	Block- E-1, LG09	Fluid Mechanics Lab	Venturi Meter		The Venturi meter is a device used to measure the flow rate. It consists of a tapering contraction section, along which the fluid accelerates towards a short cylindrical throat, followed by a section which diverges back to its original diameter. The device is used to determine the discharge coefficient or the Venturi meter coefficient (C). This value lies between 0.92-0.99 and varies from one meter to another.	
23	Amity School of Engineering and Technology (ASET)	Block- E-3, LG14	Material Testing/ Geotechnical Engineering Lab	Aggregate Impact Test Apparatus	Aimil Ltd(AIM456)	It is for determining the aggregate impact value and has been designed in accordance with IS:2386 (Part 4), IS:9377. The sturdy construction consists of a base and support columns to form a rigid frame work around the quick release trigger mechanism to ensure an effective free fall of the hammer during test. The free fall can be adjusted through 380 ± 5 mm. The hammer is provided with a locking arrangement.	
24	Amity School of Engineering and Technology (ASET)	Block- E-3, LG14	Material Testing/ Geotechnical Engineering Lab	Aggregate Impact Test Apparatus	Aimil Ltd(AIM455)	The selection of proper aggregate for a given application is essential to attain the desired quality. Various characteristics required to be determined for the selection of appropriate aggregate from the wide range are available. The following mechanical tests are designed to meet this requirement. This apparatus is used for measuring resistance of an aggregate to crushing, as per IS:2386, (Part 4).	

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25	Amity School of Engineering and Technology (ASET)	Block- E-3, LG14	Material Testing/ Geotechnical Engineering Lab	Crushing Valve Apparatus	HEICO(HA50.85)	Used for determining the Aggregate Crushing Value, The apparatus consists of a steel cylinder 75 mm dia, a plunger and a steel base plate. The surfaces coming into contact with the aggregate are case hardened.	
26	Amity School of Engineering and Technology (ASET)	Block- E-3, LG14	Material Testing/ Geotechnical Engineering Lab	Digital Ductility App.	Aimil Ltd(AIM 565-1)	Bituminous surfaces exposed to varying temperature conditions undergo expansion & contraction. So an important characteristic of the binder is its ductility & the degree of ductility has an effect on the cracking bituminous surface due to traffic stress. The ductility of bitumen is expressed as the distance in centimetres to which a standard briquette can be elongated before the thread thus formed breaks under specified conditions.	
27	Amity School of Engineering and Technology (ASET)	Block- E-3, LG14	Material Testing/ Geotechnical Engineering Lab	Film Stripping Device	Aimil Ltd(AIM 560)	Film stripping device is used to measure the resistance of bituminous mixtures to stripping of asphalt from aggregate particles. It is generally used to evaluate mineral aggregates & to judge the adhesion of the bituminous materials. The device consists of a disk on which 4 bottles are mounted. The disc rotates at a speed of approx. 100 rpm. The sample, usually the aggregate fraction which passes a 9.525 mm sieve but is retained on a No. 8 sieve, is placed in the bottles & agitated for 15 minutes. The percentage of aggregate stripped can be visually estimated. The device is provided with a pre set counter. Suitable for operation on 220 V, 50Hz, Single Phase, AC supply.	
28	Amity School of Engineering and Technology (ASET)	Block- E-2, LG-01		Sieve Shaker	Heico(HS31.17)	Having a sturdy cast iron body, the sieve shaker has an inclined sieve table which can accommodate a maximum of seven sieves of 150 mm or 200 mm diameter. To hold Having a sturdy cast iron body, the sieve shaker has an inclined sieve table which can accommodate a maximum of seven sieves of 150 mm or 200 mm diameter. To hold	


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29	Amity School of Engineering and Technology (ASET)	Block- E-2, LG-01		Vibrating Table	Heico(HC42.142)	The size of the table is 1000mm x 1000mm. It has a heavy duty vibrator with fixed amplitude and vibrations. Operates on 440 v 3 phase supply.	
30	Amity School of Engineering and Technology (ASET)	Block- E-2, LG-01		CTM- 1000kn	Heico(HC44.55)	Compression Testing Machine 1000KN (100 Tons) Capacity (Economy Channel Model) Hand Operated fitted with 15 cm dia load gauge. Compression Testing Machine designed for testing of Cement, Concrete Moulds of Various sizes 15cm x 15cm x cubes, 10cm x 10cm x cubes, 7.06 cm x 7.06 cm cubes, 15cm x 30cm cylindrical mould. Bricks can also be tested by the help of adjustable hand wheel of Compression Testing Machine.	
31	Amity School of Engineering and Technology (ASET)	Block- E-2, LG-01		Hot air oven	Heico(HS100.105)	This is a double walled oven with the inner chamber made of aluminum or stainless steel sheet and the outer surface of mild steel sheet with a gap of 64 mm between walls filled with glass wool for proper insulation to avoid heat loss. Two or three removable shelves are provided in the inner chamber. The temperature is controlled with a precision thermostat. The inner chamber is heated with the help of coil heaters placed at the bottom with a three point control switch (Rotary Switch) for low, medium and high wattage.	
32	Amity School of Engineering and Technology (ASET)	Block- E-3, LG14	Surveying Lab	Los Angeles Abrasion Testing Machine	Aimil Ltd (AIM 458)	This machine is for determining the resistance to wear off small size coarse aggregates and crushed rock. The machine consists of a hollow cylinder, mounted on a sturdy frame on ball bearings. A detachable shelf which extends throughout the inside length of the drum catches the abrasive charge and does not allow it to fall on the cover. The drum is rotated at a speed of 30-33 rpm by an electric motor through a heavy duty reduction gear. Supplied complete with a tray for collection of the material. Suitable for operation on 415V, 3 phase, 50Hz, AC Supply.	




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33	Amity School of Engineering and Technology (ASET)	Block- E-2, LG05	Material Testing/ Geotechnical Engineering Lab	Flash (Open) and Fire Point Cleveland with Thermometer	Aimil Ltd(AIM 505)	For determining the flash and fire points of petroleum products, except for fuel oil and those products which have open cup flash point below 79° C (175° F).	
34	Amity School of Engineering and Technology (ASET)	Block- E-2, LG05	Material Testing/ Geotechnical Engineering Lab	Pore Pressure Apparatus	Heico(HS28.70)	Pore water pressure apparatus mounted on a steel panel, fitted with pressure gauge, mercury manometer, brass scale graduated 50-0-50 cm., drainage burette 50 ml, null indicator with copper coil, Piston pump (hand operated) and water reservoir. Pressure range 0 - 1000 Kpa	
35	Amity School of Engineering and Technology (ASET)	Block- E-2, LG05	Material Testing/ Geotechnical Engineering Lab	Shrinkage Limit Apparatus	Heico(HS 10.30)	The apparatus conforms to IS:10077, and the test is performed as per IS:2720(Part VI). The set consists of :- i) 75 mm square Prong Plate made of 3 mm thick acrylic sheet with three metal prongs. ii) 75 mm square Plain Plate made of 3 mm thick acrylic sheet. iii) Stainless Steel Shrinkage Dish 45 mm in dia, 15 mm deep. iv) Glass cup with ground edge, 50 mm to 55 mm dia, 25 mm deep. v) Flexible Spatula with 80 mm long, 20 mm wide blade.	
36	Amity School of Engineering and Technology (ASET)	Block- E-2, LG05	Material Testing/ Geotechnical Engineering Lab	Plastic Limit Apparatus	Heico(HS 10.31)	Conforming to IS: 2720 (Part V) The apparatus consists of : i) Glassplate 200mmx150mmx3mm thick ii) Porcelain evaporating dish 120 mm dia. iii) Brass rod 3 mm dia, 100 mm long. iv) Flexible spatula with 80 mm long, 20 mm wide blade. v) Moisture Cans 50 mm dia, 12 Nos.	

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37	Amity School of Engineering and Technology (ASET)	Block- E-2, LG05	Material Testing/ Geotechnical Engineering Lab	Grain Size Distribution Apparatus	Heico(HA10.35)	<p>Test is performed as per IS:2720 (Part- IV)</p> <p>The apparatus comprises of:-</p> <ul style="list-style-type: none"> i) Pipette stand with moving carriage assembly fitted with a scale and holder for holding the pipette in position. ii) Sampling pipette 10 ml capacity fitted with a three way stop cock. iii) Sedimentation tube, 50 mm dia and approximately 350 mm long with mark at 500 ml volume. 	
38	Amity School of Engineering and Technology (ASET)	Block- E-2, LG05	Material Testing/ Geotechnical Engineering Lab	Laboratory Permeability Apparatus	Heico(HS12.05)	<p>It comprises:-</p> <ul style="list-style-type: none"> i) Compaction Permeameter Mould 1000ml capacity, clamped between top and bottom drainage plates having recess for porous stones. Supplied along with a false bottom plate for use during compaction of soil in the permeameter and extension collar. ii) Stand pipe panel, with three glass tubes of 6 mm, 10 mm and 20 mm dia, one meter long, supplied with wooden meter scale and 3 meter rubber tubing. 	
39	Amity School of Engineering and Technology (ASET)	Block- E-2, LG05	Material Testing/ Geotechnical Engineering Lab	Laboratory CBR Apparatus (Motorised)	Heico(HS 20.10)	<p>The apparatus consists of :-</p> <ul style="list-style-type: none"> i) Capacity 5000 kg (50 KN).motorized load frame having single rate of strain of 1.25 mm/m. Suitable for a power supply of 220v, 50 Hz, single phase., ii) CBR Mould 150 mm base plate and collar inner dia x 175 mm high. iii) Cutting collar. iv) Perforated swell plate. v) Spacer disc. vi) Metallic ring made of mild steel. vi) Metal tripod aluminium. viii) Penetration Piston Assembly. ix) Proving ring 10 kN capacity. x) One surcharge weight, 2.5 kg, annular. xi) One surcharge weight, 2.5 kg slotted. 	




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40	Amity School of Engineering and Technology (ASET)	Block- E-2, LG05	Material Testing/ Geotechnical Engineering Lab	Unconfined Compressive Strength Test (Motorized, Proving Ring Type)	Heico(HS 22.15)	<p>The unconfined compressive strength test performed as per IS : 2720 (part X). The loading unit is motorised and the gear system provides three different rates of strain 1.25 mm, 1.5 mm and 2.5 mm/min. The unit operates on 220V single phase supply.</p> <p>i) Screw jack with frame and dial gauge holder ii) Set of upper and lower platens, 150 mm dia. iii) Cone Seating - 2 Nos. iv) Proving Ring Adapter.</p>	
41	Amity School of Engineering and Technology (ASET)	Block- E-2, LG05	Material Testing/ Geotechnical Engineering Lab	Direct Shear Apparatus(motorised)	Heico(HS 24.15)	<p>The unit conforms to IS2720. It has a hand operated horizontal loading system for shearing the specimen. Hangers are provided for creating normal stress. It comprises :- i) Shear box assembly, 60 mm square, complete with a U-bracket, guide pins and spacing screws, made of brass. ii) Gripper assembly consisting of two plain grid plates, two perforated grid plates, one base plate and one loading pad, all made of brass. iii) Two porous stones, each 6 mm thick, fitting the shear box iv) Shear box housing of brass, complete with two ball roller strips. v) Loading unit with normal loading of 8 kg/cm² on 60 mm square specimen. vi) Specimen cutter for a specimen size of 60 mm x 60 mm x 25 mm. vii) Set of weights to give a normal stress upto 3 kg/cm² through lever, comprising 4 of 0.05 kg/cm², 1 of 0.1 kg/cm², 1 of 0.2 kg/cm², 3 of 0.5 kg/cm² and 1 of 1 kg/cm². is . It is provided with a turret type gear box to get 12 different constant rates of strain i.e 1.25, 0.625, 0.25, 0.125, 0.05, 0.025, 0.01, 0.005, 0.002, 0.001, 0.0004, and 0.0002 mm/min. and arrangements to carry out residual shear strength tests. Suitable for operation with 220V, 50 hz, single-phase supply.</p>	
42	Amity School of Engineering and Technology (ASET)	Block- E-2, LG05	Material Testing/ Geotechnical Engineering Lab	Load Frame (Motorised) 50 Kn	Heico(HS 26.35)	<p>Multi rate of strain. Designed to accommodate Universal Triaxial Cell for testing soil specimens up to 100 mm in diameter. A turret type motor drive gear unit to give 30 different rates of strain ranging from 6 mm/min down to 0.00048 mm/min. Suitable for operation on 220V, 50 Hz, Single phase supply. a turret type</p>	




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43	Amity School of Engineering and Technology (ASET)	Block- E-3, LG14	Material Testing/ Geotechnical Engineering Lab	Ring and Ball Apparatus	AIM 561-1	Ring and Ball Apparatus is compact user friendly and has better aesthetics. It has magnetic stirrer with heating facility and digital display of temperature, the heating can be adjusted through knob.	
44	Amity School of Engineering and Technology (ASET)	Block- E-3, LG14	Material Testing/ Geotechnical Engineering Lab	Standard Test Sieves	Heico(HS 32.45)	300 mm diameter (G.I. Sheet Frames) Aperture Size Aperture Size 53 mm 16.0 mm 45 mm 13.2 mm 37.5 mm 11.2 mm 31.5 mm 9.5 mm 26.5 mm 8.0 mm 22.4 mm 6.7 mm 19.0 mm 5.6 mm 4.75 mm 4.0 mm	
45	Amity School of Engineering and Technology (ASET)	Block- E-3, LG14	Material Testing/ Geotechnical Engineering Lab	Universal Penetrometer with Automatic Time Controller	Aimil Ltd(AIM 512-1)	used for testing wide variety of materials such as grease, petroleum, bitumen, tar, asphalt, wax polish, food stuffs, rubber, cement, pharmaceutical creams and soils	
46	Amity School of Engineering and Technology (ASET)	Block- E-1, LG 04A	Refrigeration and Air Conditioning Lab	Ice Plant Test Rig	M/s Ind Lab Equipments Pvt. Ltd Bangalore	Ice Plant Test Rig R404A Calcium Chloride	



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47	Amity School of Engineering and Technology (ASET)	Block- E-1, LG 04A	Refrigeration and Air Conditioning Lab	Automobile Air Conditioning Test Rig	M/s Ind Lab Equipments Pvt. Ltd Bangalore	Automobile Air Conditioning Test Rig	
48	Amity School of Engineering and Technology (ASET)	Block- E-1, LG 04A	Refrigeration and Air Conditioning Lab	Vapour Absorption Refrigeration System Test Rig	Engg. Models & Equip., Roorkee	Vapour Absorption Refrigeration System Test Rig	
49	Amity School of Engineering and Technology (ASET)	Block- E-1, LG 04A	Refrigeration and Air Conditioning Lab	Air Compressor Test Rig	Engg. Models & Equip., Roorkee	Air Compressor Test Rig	
50	Amity School of Engineering and Technology (ASET)	Block- E-1, LG 04A	Refrigeration and Air Conditioning Lab	Air Conditioning Test Rig	Engg. Models & Equip., Roorkee	Air Conditioning Test Rig	


S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
51	Amity School of Engineering and Technology (ASET)	Block- E-1, LG 04A	Refrigeration and Air Conditioning Lab	Air Compressor Test Rig	Engg. Models & Equip., Roorkee	Air Compressor Test Rig	
52	Amity School of Engineering and Technology (ASET)	Block- E-1, G 08A	Mechatronics	Electro Pneumatic Trainer kit	SMC Noida	<p>Compact Ergonomic Design</p> <p>User Friendly, Self Explanatory Systems</p> <p>Leak proof Safety Measures, sturdy piping & Robust Construction</p> <p>Enhanced Electrical Safety Considerations</p> <p>Training Manuals mimic Charts for Operation Ease</p> <p>M.S. powder coated cubical plant with standard Instrument Assemblies</p> <p>Inbuilt Safety Measures to avoid improper usage</p> <p>Relay board logic circuit operation</p>	
53	Amity School of Engineering and Technology (ASET)	Block- E-1, G 08A	Mechatronics	PLC Trainer kit	Engg. Models & Equip., Roorkee	PLC Trainer kit	

Amity Institute of Aerospace Engineering (AIAE)



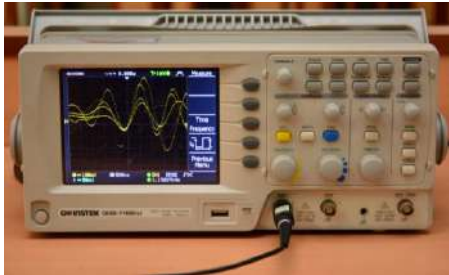
S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
1	Amity Institute of Aerospace Engineering (AIAE)	BLOCK- E-1, LG-10	Aerospace Lab	Smoke Tunnel	Inhouse design and fabrication with the help of IIT Delhi	Lab Model	
2	Amity Institute of Aerospace Engineering (AIAE)	BLOCK- E-1, LG-10	Aerospace Lab	Wind Tunnel	Inhouse design and fabrication with the help of IIT Delhi	Lab Model	 


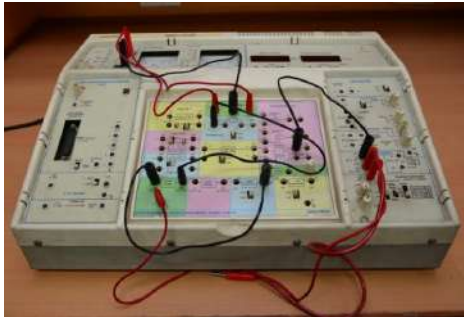

3	Amity Institute of Aerospace Engineering (AIAE)	BLOCK- E-1, LG-10	Aerospace Lab	Reynolds Apparatus	-	<p>The setup is self contained water re-circulating unit, provided with a sump tank and a centrifugal pump etc. Flow control valve and by pass valve are fitted in water line. Flow rate of water is measured with the help of measuring cylinder and stop watch.</p> <p>Visual observation of dye(Thread) will indicate the type of flow, which can be confirmed from the Reynold's number computed.</p>	
4	Amity Institute of Aerospace Engineering (AIAE)	BLOCK- E-1, LG-10	Aerospace Lab	Flow Visualization Apparatus	-	<p>This apparatus could be used to simulate any process satisfying the Laplace equation in two dimensions.</p> <p>The test channel is formed by placing the smooth flat faces of the top and bottom plates closely together. The rubber model is sandwiched between these plates. A rubber seal fixed to the bottom plate prevents leakage from the apparatus. The top glass plate, which is removable, contains a grid to aid analysis of the flow patterns. Water flows along the channel at a sufficiently low Reynolds number for the inertia forces to be negligible. The bottom plate contains four small holes which can each be connected to either a water pressure or suction point and thus act as a source or sink. The streamlines are produced by a regulated flow of dye solution.</p>	
							


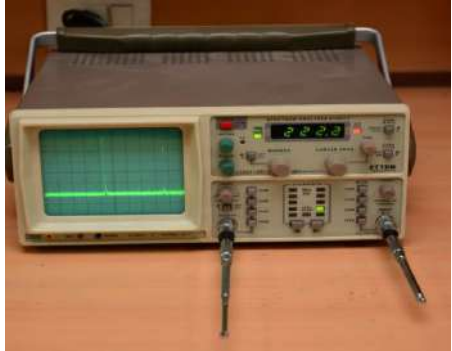

5	Amity Institute of Aerospace Engineering (AIAE)	BLOCK- E-1, LG-10	Aircraft Propulsion Lab	Propeller	-	Lab Model	
6	Amity Institute of Aerospace Engineering (AIAE)	BLOCK- E-1, LG-10	Aircraft Propulsion Lab	Photo Elastic Bench	Technolab Associates	<p>2 plane polarisation filters as polariser and analyser 2 quarter wave filters to generate circular polarised light All filters with 360° angle scale and marking of the main optical axis White light generated using a fluorescent tube and two incandescent lamps Monochromatic light generated using a sodium vapour lamp Filters roller bearing mounted and rotating Frame cross-arms with adjustable- height Generation of compression or tension forces by means of a threaded spindle Complete models in polycarbonate (PC)</p>	

7	Amity Institute of Aerospace Engineering (AIAE)	BLOCK- E-1, LG-10	Aircraft Propulsion Lab	12" Research Polariscope 100 kg cap.	Techno Lab Associates (Model SL-A)	Accessories for Polariscope – Oblique Incidence Attachment Telemicroscope Model Cutter Model Polisher	
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Amity Institute of Space Science & Technology (AISST)

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
1	Amity Institute of Space Science & Technology (AISST)	E1 102	Avionics Lab	9in 1 multi test station	Aplab/4049	<p>9 in 1 Instrument - Ideal for Testing and Servicing</p> <p>100MHz High Sensitivity Frequency Counter with 5 Digit Display</p> <p>2MHz Function Generator</p> <p>110MHz RF Generator</p> <p>Dual 0 - 18V / 2A Variable Voltage and Current Power Supply</p> <p>Triple Output Fixed Power Supplies</p> <p>3½ Digit True RMS Multimeter with LED Display</p>	
2	Amity Institute of Space Science & Technology (AISST)	E1 102	Avionics Lab	Digital storage oscilloscope	Trinity/TDSO-5025	<p>Display :8X12 divides</p> <p>Waveform Capture Rate : The highest capture rate exceed 1000 times/sec</p> <p>Input Max voltage :400V,Vpp</p> <p>Trigger Types : Edge, Pulse, Video, Slope, Alternative</p> <p>Trigger Modes : Auto, Normal, Single</p> <p>Trigger Source :CH1,CH2,Ext,Ext/5 AC Line</p> <p>Save/Recall :Provide two groups reference waveforms, twenty groups capture waveforms and twenty groups setups internal save/recall function and USB flash drive Save/Recall function</p> <p>Auto Measure Types :Vpp, Vmax, Vmin, Vamp, Vtop, Vbase, Cmean, Mean, Vrms, Crms, ROVShoot, FOVShoot, RPRESshoot, FPRESshoot, Freq, Period, Rise time, Fall Time, +Width, -Width, +Duty, - Duty, BWid, Phase, FRR, FRF, FFR, FFF, LRR, LRF, LFR, LFF</p> <p>Cursor measure :Manual, Track, Auto</p> <p>Sample Types : Real Time, Equivalent Time</p> <p>Averages :4,16,32,64,128,256</p> <p>Math : +, -, *, Invert FFT Window:</p> <p>Hanning, Hamming, Blackman, Rectangular Sampling Points: 1024 points</p> <p>XY Mode :Phase Error: ±3 degrees Support the sampling rate : 5KSa/s~1GSa/s (in a 1-2-5 sequence)</p> <p>Display Model : Main, Window, Window Zoom, Roll, X-Y</p> <p>Menu Display : 2Sec, 5Sec, 10Sec, 20Sec, Infinite</p> <p>Display Language: Simplified Chinese, Traditional Chinese, English, Arabic, French, German, Russian, Spanish, Portuguese, Japanese, Korean, Italian a</p> <p>Power Source Voltage :100-240VAC, 47HZ-440HZ, 50VA Max</p> <p>Connections :USB Host, Support USB flash drive storage, USB Device</p>	
3	Amity Institute of Space Science & Technology (AISST)	E1 102	Avionics Lab	Digital storage oscilloscope	GW INSTEK/GDS-1102-U	<p>Two-channel, portable digital oscilloscope for electronics applications such as product design, assembly lines, repair and servicing, and electrical engineering education</p> <p>Maximum real-time sample rate of 1GS/s and record length of 2 Mpts per channel for acquiring detailed waveforms</p> <p>Auto-set function automatically selects the optimum settings for displaying waveforms</p> <p>Add, subtract, multiply, and FFT math functions and 27 measurement parameters for analyzing waveforms</p> <p>5.7" color TFT-LCD for simultaneously viewing up to two live and two stored waveforms</p>	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
4	Amity Institute of Space Science & Technology (AISST)	E1 102	Avionics Lab	Function Signal Generator	Trinity/TFG - 4002	<p>Can be used as a receiver for remote monitoring of the transmitted signal quality</p> <p>Supports ATSC, CMMB, DTMB, DVB-T and DVB-T2 waveform measurements</p> <p>Covers VHF (170 to 230 MHz) and UHF (470 to 862 MHz) frequency bands (L-Band or S-Band available on request)</p> <p>Highly informative GUI with extensive transmitted signal quality measurements: Spectrum, MER/SNR, PAR, Constellation, Spectral Regrowth (Shoulders), Group Delay</p> <p>Web and SNMP interfaces provide local/remote monitoring and control</p>	
5	Amity Institute of Space Science & Technology (AISST)	E1 102	Avionics Lab	Modular instrumentation trainer.	Anshuman/MIT	<p>Built in power supply DC supply +/- 12V,500mA, Variable 7V to 14V @ 3Amp. For torque measurement experiment.</p> <p>Built in function generator O/p waveform- sine, triangle & square, TTL O/p freq.- 1Hz to 200KHz in ranges with amplitude & freq. control pots, o/p voltage 10Vpp. On board measurement : DC volt -2V/20V1no. & LED BAR graph with 10 LED indicator to display 0-2.5V or 0-4V input.</p> <p>Computer interface (Optional) Interfacing through 25 pin parallel port (LPT port). Software for virtual instrumentation with parallel port driver supplied.</p> <p>4 ADC channels : 0 to 2.5V full scale 1 DAC channel : O/P 2.5 V full scale V to I Function block : Input : 0-2.5Vdc Output : 0-20 or 4-20mA, upto max. 2Vdc gnd compliance •Operating voltage : 230V +/- 10%,50Hz</p>	
6	Amity Institute of Space Science & Technology (AISST)	E1 102	Avionics Lab	Microwave Antenna training system.	Amitec Electronics Ltd/ATS12	<p>320X240 Pixel TFT Touch screen</p> <p>Source & Receiver: 8.2 to 12.4 GHz with 1 mW level and 10ppm Accuracy</p> <p>Sensitivity: -80dBm</p> <p>Measurement: dBm and 22 other units with 0.1dB Resolution</p> <p>Display for angular Position and power level;</p> <p>Stepper controller: 0-359 degrees with 1, 5, 10, 45 degrees, Automatic rotation, with USB Datalogging facility</p> <p>Memory: 10,000 memories for storing positions and RF levels for quick recall; Microstrip antennas: Monopole, Dipole, Patch, 1X2 Patch Array, 2X2 Patch Array, 4X4 Patch Array</p> <p>Aperture antennas: Slot WG narrow wall, Slot WG broad wall, Parabolic Dish, Conical Horn, Open waveguide, Pyramidal Horn, E Plane Sectoral Horn, H Plane Sectoral Horn</p> <p>Antenna: Helix LHCP & RHCP, Dielectric Rod</p> <p>Multi-hole waveguide directional coupler: 30 dB directivity and 10 dB coupling</p> <p>Matched waveguide Termination, Waveguide Slotted line, Waveguide SS Tuner.; Software with USB interface with polar plotting software with log, linear cartesian and polar plots, Multiple pattern overlay, Double cursor measurement, Zoom, Colour editing, 1000 location editor, Absolute/Relative,3dB/10dB beam-width measurement.</p>	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
7	Amity Institute of Space Science & Technology (AISST)	E1 102	Avionics Lab	SATELLITE COMMUNICATION LAB	Amitec Electronics Ltd/STC-10	5.8 GHz Display: 320X240 Pixel TFT Touch screen, 7 channels in 5.8 Ghz band in uplink, 16X2 LCD, RF level: +3 dBm, Tele-command & telemetry, Sensitivity -85dBm, Path Loss 20dB, Down-converter: 400-500MHz output, USB port, RSSI Output, Noise addition Variable, Signal delay upto 0.6s, Dish, Fading 20dB Variable, Patch array 2X2, Test Outputs Audio 1, Audio2, Video, Digital Antennas: LPDA, Helices- LHCP & Helix-RHCP, Circular & Rectangular Patch Array, Parabolic Dishes, 320X240 Pixel TFT Touch screen Stepper controller: 0-359 degrees with 1, 5, 10, 45 degrees, Automatic rotation 4 Ghz Noise source, 500MHz Noise Signal analyzer for Noise Figure measurement sensitivity: -90dBm with 100KHz resolution, 6 Ghz Interference generator.	
8	Amity Institute of Space Science & Technology (AISST)	E1 102	Avionics Lab	Spectrum analyzer.	Trinity/SA-5010	Frequency range:0.15~1050MHz Center frequency display accuracy : ±100kHz Marker accuracy :0.1%span+100kHz Resolution of frequency display :100kHz(4.5digit LED) Frequency scanwidth accuracy:±10% Frequency stability:better than 150kHz/hour IF bandwidth(-3dB):400kHz and 20kHz Video-filter(ON):4kHz Sweep rate:43Hz Amplitude range:-100dBm to +13dBm Screen display range:80 dB(10dB/div.) Reference level :-27dBm to +13dBm(in 10dB steps) Reference level accuracy:±2dB Average noise level:-90dBm(20kHz bandwidth) Distortion:<-55dBc of 2nd and 3rd harmonic Third order intermod:-70dBc(two signal>3MHz apart) Sensitivity:<5dB above average noise level Log scale fidelity:±2dB(without attn.)500MHz Input attenuator:0 to 40dB(4×10dB steps) Input attenuator accuracy:±1dB/10dB Max.input level:+10dBm,±25V DC(0dB attn.)+20dBm(40dB attn.) Frequency scanwidth:100kHz/div.to 100MHz/div.,in 1-2-5 steps and 0Hz/div.(Zero Scan)	
9	Amity Institute of Space Science & Technology (AISST)	E1 102	Avionics Lab	Direct Reading Frequency Meter	Microwave Technologies Inc	Used for conducting studies on characteristics of reflex klystron & Gunn Diode;frequency, guide wavelength & free space wave length;Top measure SWR & reflection coefficient. & impedance of a load Also finds application to measure polar pattern & gain of antennas,dielectric constant of Liquid & Solid cells;phase shift & "Q" of a cavity Used To study Magic Tee. E & H Plane Tee, Directional Coupler. Isolators Circulators & Return Loss Measurement.	




Amity Institute of Renewable and Alternative Energy (AIRAE)




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/ Model	Technical Specifications	Image
1	Amity Institute of Renewable and Alternative Energy (AIRAE)	Block-E3, 4th Floor, Room No. 418	Solar Lab	Solar Water Heater Panel (Model)	Maharishi Solar	Lab Model for Research	
2	Amity Institute of Renewable and Alternative Energy (AIRAE)	Block-E3, 4th Floor, Room No. 418	Solar Lab	Solar Water Heater Panel (Model)	Maharishi Solar	Lab Model for Research	
3	Amity Institute of Renewable and Alternative Energy (AIRAE)	Block-E3, 4th Floor, Room No. 418	AIRAE Renewable Experiment Lab	Solar Water Heater Panel (Model)	Maharishi Solar	Lab Model for Research	
4	Amity Institute of Renewable and Alternative Energy (AIRAE)	Block-E3, 4th Floor, Room No. 418	AIRAE Renewable Experiment Lab	Wind Turbine (Model)		Lab Model for Research	




Amity School of Fashion Technology (ASFT)



S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
1	ASFT	Block K-1, 201	Testing & Characterization of Technical Textiles	Tensile tester	Instron (34TM-5)	<p>Instron Tensile tester 34TM-5 Load capacity: 5KN Grip: Advanced screw slide action, Jaw faces serrated rubber coated Maxcrossheadtravel: Max 1172mm Display: Dell high performance workstationPC Software: Bluehill elemental material testing</p>	
2	ASFT	Block K-1, 201	Testing & Characterization of Technical Textiles	Thermal Protective Performance Tester	T422	<p>T422 Thermal Protective Performance Tester temperature measurement: $\pm 0.75^{\circ}\text{C}$ radiant heat flux measurement: $\pm 3\%$ Standard calorimeter mounting block Analysis model: "Stoll Curve, TPP rating, time to second degree burn, installed Stoll curve model internally" Heat source: Independently controlled radiant heat source and convective heat source Sample holders: 2 removable Standards: ISO 17492 • ASTM F2700 (ASTM F2700 is an updated version of ASTM D4108) • ASTM F2703, • CAN/CGSB 155.20 • NFPA 1971, 1977, and 2112</p>	
3	ASFT	Block K-1, 202	High Performance and Technical fabrics	Circular Knitting Machine	BHARAT MACHINES	<p>Bharat Circular Knitting Machine Dia: 4 inch Gauge: 20 No. of feeders: 1 Take down mechanism: uniform storage ffeeder: positive Top creel: Yes</p>	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
4	ASFT	Block K-1, 202	High Performance and Technical fabrics	Heavy duty Flat Bed Knitting Machine	BHARAT MACHINES	Bharat heavy duty Flat Bed Knitting Machine Bed: 44inch Gauge: 11 Feeder: 6 winding system: double Ratched Drive: V belt Cams: CNC	
5	ASFT	Block K-1, 201	Testing & Characterization of Technical Textiles	Flammability Tester i10™ (45°Angle)	Paramount Instruments P Ltd	Flammability Tester i10™ (45°Angle) Fine Gas control system to regulate the flame length Standard: ASTM D1230 16 CFR-1610 CALIF TB 117 FTMS 191-5908 Sample mounting: Movable Door: Acrylic Timer: digital	
6	ASFT	Block K-1, 202	High Performance and Technical fabrics	2-Bowl Padding Mangle	GLOBE-TEX Industries	2-Bowl Padding Mangle Maximum Working Width: 450mm Roll Size Not given Electrical Supply Single Phase 320 Volts, 50 HZ. Motor ¼ HP., DC Geared Motor. Shore Hardness 70-75 Roller Coating Rubber roll 1 Piece & Ebonite roll 1 Piece. Special feature Knife is provided for removing of gumming materials	



S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
7	ASFT	Block K-1, 201	Testing & Characterization of Technical Textiles	Horizontal Flammability Tester		Horizontal Flammability Tester	
8	ASFT	Block K-1, 201	Testing & Characterization of Technical Textiles	Vertical Flammability Tester		Vertical Flammability Tester	
9	ASFT	Block K-1, 202	High Performance and Technical fabrics	Hot Air Oven	Paramount Instruments P Ltd	<p>Working width of the inner chamber: 18" x 18" x 18"</p> <p>Display of temperature: Digital Display of Temperature.</p> <p>Temperature range: 250°C</p> <p>Temperature Accuracy: +1°C</p> <p>No. of Air Circulating Fan: 1 No.</p> <p>Power Supply: Single Phase</p> <p>No. of Shelves: 2 Nos.</p> <p>Air flow control fixed, not varying</p>	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
10	ASFT	Block K-1, 201	Testing & Characterization of Technical Textiles	DigiMoist i9	Paramount Instruments P Ltd (DigiMoist i9)	<p>DigiMoist i9</p> <p>Ideal to check the Moisture of Textile in any form : Loose cotton, Cotton balls, Yarn cones, Fabric, Garments, Moving Fabrics & even Cardboard Box of garments</p> <p>It measures the moisture by sensing the electrical resistance of the hygroscopic material.</p> <p>Types of the sensors are available- Pin type sensors can be used for loose cotton material cones, cheese. Flat type of sensors can be used for fabrics, garments. Roller type of sensors can be used for fabric or yarn or web running on the machine. The long probe sensors are made specially made for cotton bales.</p>	
11	ASFT	Block K-1, 201	Testing & Characterization of Technical Textiles	Auto Air Permeability Tester	Apple Electronics (APT/E)	<p>APT/E Auto Air Permeability Tester</p> <p>Measuring range: 1 – 10,000 l/ m²/s</p> <p>Sample thickness: 0~10mm</p> <p>Unit of measure: mm/s, cfm, cm³/cm²/s, l/m²/s, l/dm²/min, m³/m²/min, m³/m²/h and dm³/s</p> <p>Measuring accuracy: +/- 2 % of the displayed value</p> <p>Test pressure: 10~ 2,500 Pa</p> <p>Test area: 20cm²</p> <p>Data port:: USB</p> <p>Standard: IS: 11056-1984, AFNOR G 07 111, ASTM D 737, ASTM D3574, BS 5636, DIN 53887, EDANA 140.1, EN ISO 7231, EN ISO 9237, JIS L 1096- A, TAPPI T 251, and other standards</p> <p>Power: 220V, 50Hz</p>	
12	ASFT	Block K-1, 319	Garment Construction Lab	VACUUM IRONING TABLE	2015/ RAMSONS VIET VACUUM IRONING TABL	RAMSONS VIET VACUUM IRONING TABLE W/O BUCKS	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
13	ASFT	Block K-1, 319, 320, 321	Garment Construction Lab	SINGLE NEEDLE LOCKSTITCH MACHINE COMPLETE SET WITH STANDARD ACCESSORIES	DDL8100eB- AAP	SINGLE NEEDLE LOCKSTITCH MACHINE COMPLETE SET WITH STANDARD ACCESSORIES	
14	ASFT	Block K-1, 319	Garment Construction Lab	Hashima Fusing Machine	2013/ H. P. 450ms	Hashima Fusing Machine	
15	ASFT	Block K-1, 319	Garment Construction Lab	Vaccum Ironing System with portable Boiler	Ramson/ RV- 4425-80 & MR02	Vaccum Ironing System with portable Boiler	



S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
16	ASFT	Block K-1, 206	Textile Testing Lab	Digi Strength (250 KG)	-	Digi Strength (250 KG)	
17	ASFT	Block K-1, 206	Textile Testing Lab	Abrasion Tester	-	Abrasion Tester	





Department of Anthropology, Amity Institute of Social Sciences (AISS)





S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
1	Department of Anthropology, AISS	K3 - Block (G21)	Research Lab	Microspin Centrifuge	Eltek (Microspin TC 4815 D)	Max. Speed : 16000 RPM Max. RCF : 17600xg Max. Tube Size : 5 ml Max. Capacity : 48 ml	
2	Department of Anthropology, AISS	K3 - Block (G21)	Research Lab	Centrifuge	HITACHI (CT 15 RE)	Maximum Speed 15000 rpm Height 250 mm CT15RE: 300mm Length 320 mm CT15RE: 520mm Weight 17 kg CT15RE: 40kg Width 240 mm CT15RE: 290mm	
3	Department of Anthropology, AISS	K3 - Block (G21)	Research Lab	Cooling Centrifuge	REMI(R-8C)	Max. Speed : 6000-16000 rpm Max. RCF: 5070-16600 'g' Max. Capacity:400-40 ml Digital timer range-0-59Min	
4	Department of Anthropology, AISS	K3 - Block (G21)	Research Lab	Water Bath Incubator Shaker	Thermotech	Top Lid: GABLED DOME LID made of Stainless Steel Temperature: Controlled by microprocessor based digital temperature indicator cum controller. Temperature Display: Digital LED with set value (SV) & process value (PV). Shaking Speed: 40 to 140 cycles/min. Shaking Speed: Controlled by speed regulator	




S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
5	Department of Anthropology, AISS	K3 - Block (G21)	Research Lab	Vortex Mixture (Touch Type)		<p>Mixing Motion: Orbital Speed Range: 100–3200 RPM (variable, depending on model)</p> <p>Orbit Diameter: 4 mm (typical)</p> <p>Tube Compatibility: 1.5 mL to 50 mL tubes</p> <p>Motor Type: Brushless DC motor or AC shaded pole motor</p> <p>Power Supply: 110–240V AC, 50/60 Hz</p> <p>Power Consumption: Around 30–60 W</p>	
6	Department of Anthropology, AISS	K3 - Block (G21)	Research Lab	Centrifuge		<p>Maximum Speed: 6,000 – 15,000 RPM (model dependent)</p> <p>Maximum RCF (g-force): 2,000 – 21,000 × g</p> <p>Speed Control: Fixed</p> <p>Timer Range: 0 – 30 minutes or continuous (some models are timer-free)</p> <p>Rotor Type: Fixed-angle rotor</p>	
7	Department of Anthropology, AISS	K3 - Block (G21)	Research Lab	Lisacan EM Microplate Reader	Erba Mannheim	<p>System Type: Open system</p> <p>Plate Compatibility: 96-well plates with U, V, and flat bottom wells</p> <p>Measurement Modes: Absorbance, Quantitative, Qualitative, Semi-Quantitative, Kinetic</p> <p>Measurement Modes: Continuous and Step</p> <p>Wavelength Selection: Monochromatic, Bi-Chromatic, Multi-Chromatic (up to 4 wavelengths)</p> <p>Wavelength Range: 400 to 750 nm</p> <p>Standard Filters: 405 nm, 450 nm, 492 nm, 630 nm; optional filters: 578 nm, 700 nm</p> <p>Photometric Range: 0.0 to 4.0 OD</p> <p>Photometric Accuracy: <1% at 2.5 OD at 450 nm</p>	



S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
8	Department of Anthropology, AISS	K3 - Block (G21)	Research Lab	Magnetic Stirrer	REMI 2MLH	<p>Stirring Capacity: Up to 2 liters Heating Capacity: 300 watts Speed Control: Stepless, up to 1200 RPM Speed Display: Digital speed indicator Stirring Paddle: PTFE-coated, Model Q-19A (9 mm × 35 mm) Top Plate Material: Stainless steel Dimensions (W × D × H): 200 × 225 × 185 mm Motor Type: Permanent Magnet DC (PMDC) motor Power Supply: 220–240 V AC, 50 Hz single phase</p>	
9	Department of Anthropology, AISS	K3 - Block (G21)	Research Lab	PCR Machine	HIMEDIA	<p>Sample Capacity: 96 × 0.2 mL wells Block Material: Aluminum alloy Temperature Range: 0°C to 100°C Heating/Cooling Rates: 5°C/sec (heating), 4°C/sec (cooling) Gradient Range: 30°C to 100°C</p>	
10	Department of Anthropology, AISS	K3 - Block (G21)	Research Lab	Incubator		<p>Temperature Range: Ambient +5°C to 70°C Temperature Uniformity: ±0.8°C at mid-range Capacity: 872L Construction: Stainless steel interior; painted cold roll steel exterior Control: Microprocessor-based with overtemperature thermostat</p>	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
11	Department of Anthropology, AISS	K3 - Block (G21)	Research Lab	Freezer (-20 °C)	Vestfrost	Temperature Range: -18°C to -22°C Gross Capacity: 340 liters Cooling Type: Static cooling with manual defrost Refrigerant: R600a Power Supply: 13 Amp plug Dimensions (H x W x D): 1850 x 595 x 595 mm	
12	Department of Anthropology, AISS	K3 - Block (G21)	Research Lab	Fridge (4 °C)	Samsung	Capacity: 415 liters Energy Rating: 4 Star Cooling Technology: Twin Cooling Plus™ Compressor: Digital Inverter Compressor Shelves: Toughened glass shelves Defrosting Type: Frost Free Refrigerant: R600a	
13	Department of Anthropology, AISS	K3 - Block (G21)	Research Lab	Large and Small Spreading Calipers (Blunt and Pointy End)		Material Constructed from anodized aluminum or stainless steel Durable, rust-resistant, and lightweight for field and lab use <input checked="" type="checkbox"/> Measuring Range 0 to 600 mm or up to 1000 mm (depending on model) Suitable for larger anthropometric measurements (e.g., biacromial breadth, bicristal breadth) <input checked="" type="checkbox"/> End Types Blunt Ends: Safe for use on living subjects, especially soft tissues Pointed Ends: Designed for skeletal measurements or precise landmarking on hard tissue <input checked="" type="checkbox"/> Graduation & Accuracy Graduated in millimeters (mm), some with dual mm/inch scale Measurement accuracy typically ±0.5 mm	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
14	Department of Anthropology, AISS	K3 - Block (G21)	Research Lab	Anthropometer rods		<p>Made of anodized aluminum or stainless steel Lightweight, corrosion-resistant, and durable Measuring range typically 0 to 200 cm; some models extend up to 220 cm Graduated in millimeters (mm) with accuracy of ± 0.5 mm to ± 1 mm Composed of 4 to 5 interlocking or telescopic rods Features secure locking between segments Includes sliding arms or crossbars for precise landmark positioning Tips may be blunt or flat depending on use (soft tissue or skeletal)</p>	
15	Department of Anthropology, AISS	K3 - Block (G21)	Research Lab	Weighing Balance		<p>Made of stainless steel or durable ABS plastic Weighing capacity ranges from 5 kg to 300 kg (depending on type) Readability typically from 0.1 g to 100 g Digital LCD/LED display with backlight Tare function for net weight calculation Measurement units: kg, g, lb, oz</p>	
16	Department of Anthropology, AISS	K3 - Block (G21)	Research Lab	Autoclave		<p>Construction Material: Stainless steel (SS 304 or SS 316) inner chamber and lid Chamber Capacity: Common sizes include 10 L, 22 L, 35 L, 50 L, up to 100 L or more Temperature Range: 121°C to 134°C Pressure Range: 15 to 20 psi (1.05 to 1.4 kg/cm²) Sterilization Cycle: 15–30 minutes at 121°C (standard cycle) Heating Method: Electrically heated (built-in immersion heaters) Lid Locking System: Radial arm or screw-type with pressure safety interlock</p>	
17	Department of Anthropology, AISS	K3 - Block (G21)	Research Lab	ABO Blood Grouping Kit	MeriSera (Meril Diagnostics)	<p>Includes Anti-A, Anti-B, and Anti-D (Rh) reagents Reagents are monoclonal or polyclonal (Anti-A and Anti-B are typically IgM; Anti-D may be IgM or IgG) Supplied in dropper bottles, usually 5–10 mL each Color-coded: Anti-A (blue), Anti-B (yellow), Anti-D (clear or white) Shelf life typically 12 to 24 months Storage temperature 2°C to 8°C; must not be frozen Uses hemagglutination principle to detect antigen-antibody reactions Easy-to-use format, suitable for slide or tube testing Used for determining ABO and Rh (D) blood groups</p>	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
18	Department of Anthropology, AISS	K3 - Block (G21)	Research Lab	Sliding Calipers		<p>Made of durable stainless steel or aluminum for rust resistance and longevity</p> <p>Measurement range typically from 0 to 300 mm or 0 to 600 mm</p> <p>Graduation in millimeters (mm) for precise measurements</p> <p>Accuracy of ± 0.1 mm to ± 0.5 mm</p> <p>Sliding mechanism for easy and smooth adjustment</p> <p>Locking system to secure the calipers in place once measurement is made</p> <p>Equipped with blunt or pointed ends depending on application (e.g., blunt for soft tissues, pointed for skeletal measurements)</p>	
19	Department of Anthropology, AISS	K3 - Block (G21)	Research Lab	Steel Tape	Freemans	<p>Made from high-quality carbon steel or stainless steel for durability and corrosion resistance</p> <p>Blade widths typically range from 9.5 mm to 19 mm</p> <p>Blade lengths range from 3 meters to 100 meters</p> <p>Graduations available in metric, imperial, or combined units, with some models offering fractional markings for precise measurements</p>	
20	Department of Anthropology, AISS	K3 - Block (G21)	Research Lab	Ishihara Chart		<p>Used for testing color vision and diagnosing color blindness</p> <p>Composed of a series of plates with colored dots forming numbers or shapes</p> <p>Typically contains 38 plates, but can range from 14 to 24 plates</p> <p>Plates feature numbers or patterns that individuals with normal color vision and those with color deficiencies see differently</p> <p>Uses a color scheme of red, green, yellow, and blue dots to assess the ability to distinguish these colors</p> <p>Diagnoses various types of color blindness, including red-green, blue-yellow, and total color blindness</p>	
21	Department of Anthropology, AISS	K3 - Block (G21)	Research Lab	PTC Strips	PL Precision Laboratories	<p>Used to test an individual's ability to taste phenylthiocarbamide (PTC), a bitter compound</p> <p>Tasting ability is determined by a dominant genetic trait, with about 70% of people able to taste PTC</p> <p>To use, place the strip on the tongue; individuals who can taste PTC experience a bitter taste, while others feel no taste</p> <p>Each strip contains 20 micrograms of PTC, a harmless and negligible amount</p> <p>Strips measure 6mm x 48mm</p> <p>Typically sold in vials containing 100 strips</p>	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
22	Department of Anthropology, AISS	K3 - Block (G21)	Research Lab	Haemocytometer		<p>Made of high-quality glass or optical glass Standard size is usually 3.2 cm x 3.2 cm with a 1 mm depth Contains a central counting chamber with a grid pattern for cell counting The grid consists of 9 large squares, each 1 mm², further subdivided into smaller squares for precise counting Designed to hold a cover slip (usually 22 mm x 22 mm) that creates a uniform depth for sample measurement The total volume of the chamber is typically 0.1 µL per large square</p>	
23	Department of Anthropology, AISS	K3 - Block (G21)	Research Lab			<ol style="list-style-type: none"> Includes an ink pad or powder for fingerprint collection, fingerprint cards or paper sheets for imprinting, a magnifying glass for examining fingerprints, a brush for applying fingerprint powder, fingerprint lifting tape (optional), and an instruction manual for proper procedures Uses non-toxic ink or black fingerprint ink for clear prints, with some kits offering powder or gel as alternatives Standard fingerprint cards typically measure 3" x 5" 	
24	Department of Anthropology, AISS	K3 - Block (G21)	Research Lab	Blood Pressure Machine	OMRON and DrMorepan	<p>Typically measures systolic pressure from 60 mmHg to 250 mmHg and diastolic pressure from 40 mmHg to 200 mmHg Features an LCD screen to display blood pressure and pulse rate readings Equipped with an automatic cuff inflation and deflation system Powered by AA batteries or rechargeable batteries, with some models offering an AC adapter option Offers additional features like pulse rate measurement, heart rate irregularity detection, and memory storage to track previous readings</p>	

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Model	Technical Specifications	Image
25	Department of Anthropology, AISS	K3 - Block (G21)	Research Lab	Skinfold Caliper		<p>Made of high-quality plastic or metal for durability and accuracy</p> <p>Consists of two arms connected to a spring mechanism for precise measurement</p> <p>Measures skinfold thickness ranging from 0 to 80 mm, depending on the model</p> <p>Accuracy generally to 0.1 mm</p> <p>Features a calibrated scale on one arm with a dial</p>	
26	Department of Anthropology, AISS	K3 - Block (G21)	Research Lab	Skulls and bones (Human)		<p>The human skeleton consists of 206 bones in adults, divided into axial and appendicular skeletons.</p> <p>The skull contains 22 bones (8 cranial and 14 facial).</p> <p>The vertebral column has 33 vertebrae (7 cervical, 12 thoracic, 5 lumbar, 5 sacral, and 4 coccygeal).</p> <p>The rib cage includes 12 pairs of ribs (24 total), sternum, and costal cartilage.</p> <p>The upper limbs include the humerus, radius, ulna, carpals, metacarpals, and phalanges.</p> <p>The lower limbs consist of the femur, patella, tibia, fibula, tarsals, metatarsals, and phalanges.</p> <p>The pelvic girdle is made up of the hip bones (ilium, ischium, pubis), sacrum, and coccyx.</p> <p>The pectoral girdle is formed by the clavicle and scapula.</p>	
27	Department of Anthropology, AISS	K3 - Block (G21)	Research Lab	Stone Tools		<p>Stone tools are tools made primarily from stone through processes like chipping, flaking, and grinding.</p>	