# Details of Instruments - Main Building

| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 33 | Total Station | Total Survey Work carried out digitally | FoET (Civil) |  |
| Main Building, B Wing, Ground Floor | 33 | Dumpy Level | To carry out different RL | FoET (Civil) |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 35 | Direct shear apparatus | Evaluates soil shear strength under controlled conditions. | FoET (Civil) |  |
| Main Building, B Wing, Ground Floor | 35 | Humidity Chamber | Maintains controlled temperature and humidity conditions for material testing. | FoET (Civil) |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 35 | Hot Air Oven | Used for drying, sterilization, and testing material behavior at elevated temperatures. | FoET (Civil) |  |
| Main Building, B Wing, Ground Floor | 35 | CBR TEST APPARATUS | Measures the California Bearing Ratio of soil for subgrade strength evaluation | FoET (Civil) |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 35 | Unconfined Compression Test Apparatus | Determines the unconfined compressive strength of soil or rock. | FoET (Civil) |  |
| Main Building, B Wing, Ground Floor | 35 | Direct Shear Test Apparatus. | Evaluates soil shear strength under controlled conditions. | FoET (Civil) |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 35 | CBR (California Bearing Ratio) test apparatus | To determine the soil's strength and bearing capacity for design of pavements and road subgrades. | FoET (Civil) |  |
| Main Building, B Wing, Ground Floor | 35 | Direct Shear test apparatus | To determine the shear strength parameters of soil. | FoET (Civil) |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 35 | Soil Permeability Test Apparatus | To measure the rate at which water can flow through soil. | FoET (Civil) |  |
| Main Building, B Wing, Ground Floor | 35 | Soil Permeability Test Apparatus | To measure the rate at which water can flow through soil. | FoET (Civil) |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 35 | Constant Temperature Water Bath | To maintain a consistent temperature for accurate and reliable experimental results. | FoET (Civil) |  |
| Main Building, B Wing, Ground Floor | 37 | Weighing balance | To carry out weight of different material | FoET (Civil) |  |
| Main Building, B Wing, Ground Floor | 37 | Water bath for Soundness | Soundness mould bath | FoET (Civil) |  |

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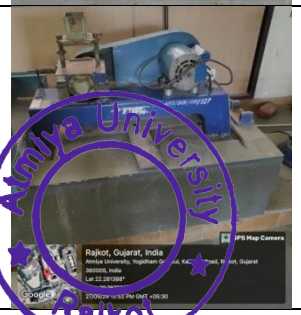
| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 37 | Fine Sieve Shaker | \ Help promote particle movement through a stack of sieves, facilitating accurate particle separation | FoET (Civil) |  |
| Main Building, B Wing, Ground Floor | 37 | Impact Test | Calculating the amount of energy absorbed to determine the impact resistance or toughness of materials by during fracture. | FoET (Civil) |  |
| Main Building, B Wing, Ground Floor | 37 | Cement mould vibrator | help eliminate air voids by evenly compacting the cement | FoET (Civil) |  |

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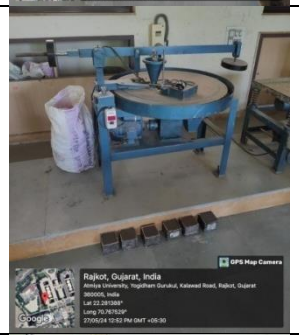
| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 37 | Cube Vibrator | help eliminate air voids by evenly compacting the concrete | FoET (Civil) |  |
| Main Building, B Wing, Ground Floor | 37 | Tile Abrasion test | determining the resistance to wear for cement concrete flooring tiles | FoET (Civil) |  |
| Main Building, B Wing, Ground Floor | 37 | losangeles abrasion test | To test the hardness property of aggregates. | FoET (Civil) |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 37 | Compressive Testing Machine | To determine the compressive strength of Concrete cube | FoET (Civil) |  |
| Main Building, B Wing, Ground Floor | 37 | Universal Testing machine | To determine various testing on different material,like Tensile testing, compressive testing etc… | FoET (Civil) |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 37 | Concrete Miller | To mix the wet and dry ingredients of concrete | FoET (Civil) |  |
| Main Building, B Wing, Ground Floor | 38 | IZOD and CHARPY Test | To advance the understanding of why materials fail prematurely. | FoET (Civil) |  |

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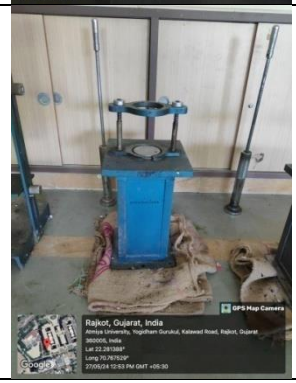
| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 38 | CBR Testing Machine | Determines the bearing capacity of soil for road and pavement design. | FoET (Civil) |  |
| Main Building, B Wing, Ground Floor | 38 | Marshall Stability Testing Apparatus | Tests the stability and flow properties of bituminous mixtures | FoET (Civil) |  |

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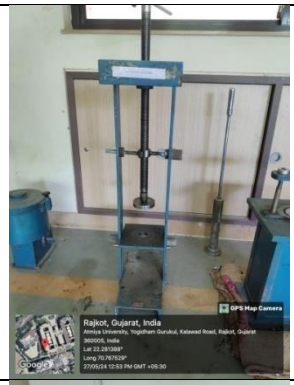
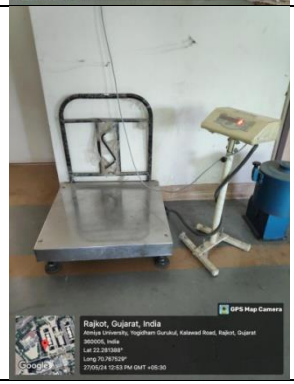
| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 38 | CBR Testing Machine | Determines the bearing capacity of soil for road and pavement design. | FoET (Civil) |  |
| Main Building, B Wing, Ground Floor | 38 | Digital Weighing Machine | Measures the precise weight of samples or materials. | FoET (Civil) |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 38 | Bump Integrator | Assesses the surface roughness and quality of road pavements. | FoET (Civil) |  |
| Main Building, B Wing, Ground Floor | 38 | Humidity Chamber | Maintains controlled temperature and humidity conditions for material testing. | FoET (Civil) |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 38 | Standard Cone Penetrometer | Measures the consistency and compaction of soil. | FoET (Civil) |  |
| Main Building, B Wing, Ground Floor | 38 | Hot Air Oven | Used for drying, sterilization, and testing material behaviour at elevated temperatures. | FoET (Civil) |  |

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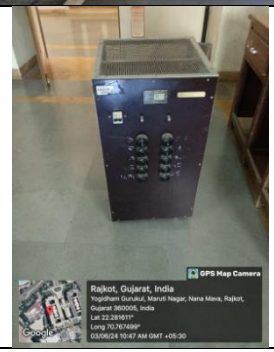
| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 38 | Ductility Testing Apparatus | Determines the ductility of bituminous materials by measuring their elongation | FoET (Civil) |  |
| Main Building, B Wing, Ground Floor | 39 | Resistor Bank | As a load bank | FoET (Electrical) |  |

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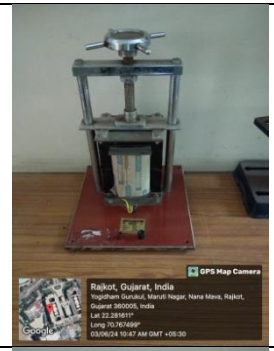
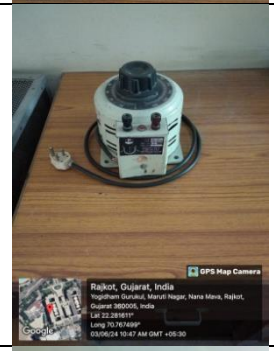
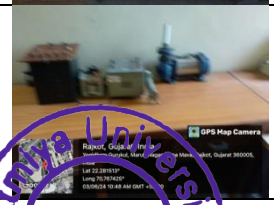
| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 39 | Chock Coil | As a Inductive load | FoET (Electrical) |  |
| Main Building, B Wing, Ground Floor | 39 | Single phase auto transformer | To varry voltage | FoET (Electrical) |  |
| Main Building, B Wing, Ground Floor | 39 | Step Down Transformer | To step down voltage | FoET (Electrical) |  |

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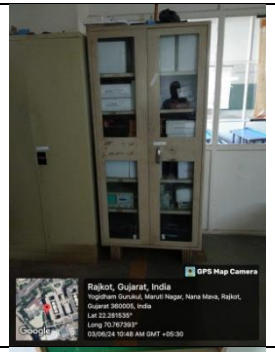
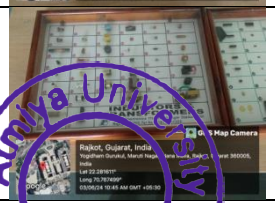
| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 39 | Small kit cupboard | Electronics Kit | FoET (Electrical) |  |
| Main Building, B Wing, Ground Floor | 41 | 3 Phase SCR Control Converter | Perform half and full wave control converter | FoET (Electrical) |  |
| Main Building, B Wing, Ground Floor | 41 | IC | Different Type of ICs model for Study | FoET (Electrical) |   |
| Main Building, B Wing, Ground Floor | 41 | Different types of Transformer | Different types of Transformer for study | FoET (Electrical) |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 41 | Analog Trainer Kit | To perform different analogpracticles | FoET (Electrical) |  |
| Main Building, B Wing, Ground Floor | 41 | Linear&Digital IC Trainer | For Practicle Purpose | FoET (Electrical) |  |
| Main Building, B Wing, Ground Floor | 42 | HV Instruments | High voltage practicle | FoET (Electrical) |  |

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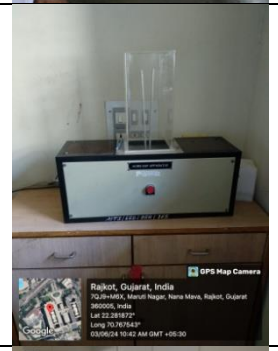
| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 42 | HV Instruments | High voltage practicle | FoET (Electrical) |  |
| Main Building, B Wing, Ground Floor | 42 | Horn gap Apparatus | Oil dielectric Strength chacking | FoET (Electrical) |  |
| Main Building, B Wing, Ground Floor | 42 | HV Instruments | High voltage practical | FoET (Electrical) |  |

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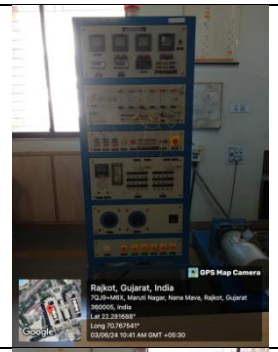
| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 44 | Transmission line simulation panel | Transmission line fault detector | FoET (Electrical) |  |
| Main Building, B Wing, Ground Floor | 44 | Generator protection simulation panel | Generator fault detector | FoET (Electrical) |  |

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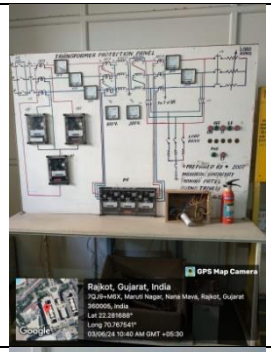
| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 44 | Transformer protection panel | Transformer protection panel for study purpose | FoET (Electrical) |  |
| Main Building, B Wing, Ground Floor | 44 | Forward Reverse DOL Starter | Forward Reverse DOL Starter for motor | FoET (Electrical) |  |

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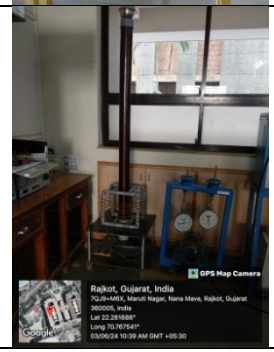
| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 44 | Automatic star delta starter | Automatic star delta starter for motor | FoET (Electrical) |  |
| Main Building, B Wing, Ground Floor | 44 | Tesla Coil | Tesla Coil for HV Testing | FoET (Electrical) |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 44 | Motor Load | To identify motor load | FoET (Electrical) |  |
| Main Building, B Wing, Ground Floor | 44 | Motor Protection panel | To protect motor from different fault | FoET (Electrical) |  |

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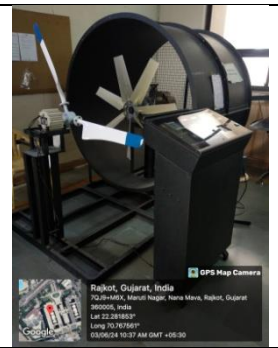
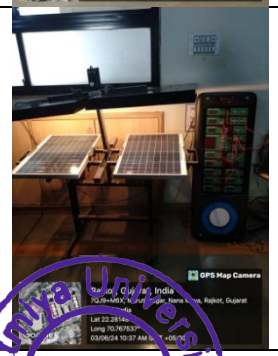
| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 45 | Wind mill | Wind mill for study | FoET (Electrical) |  |
| Main Building, B Wing, Ground Floor | 45 | Bus bar simulation panel | Bus bar simulation panel | FoET (Electrical) |   |
| Main Building, B Wing, Ground Floor | 45 | Solar kit | Solar kit for study | FoET (Electrical) |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 46 | Motor Generator coupling | Motor Generator coupling | FoET (Electrical) |  |
| Main Building, B Wing, Ground Floor | 46 | DC Shunt Motor set | DC Shunt Motor set for practical purpose | FoET (Electrical) |  |
| Main Building, B Wing, Ground Floor | 46 | DC Shunt motor coupled with non-salient pole alternator | DC Shunt motor coupled with non-salient pole alternator | FoET (Electrical) |  |

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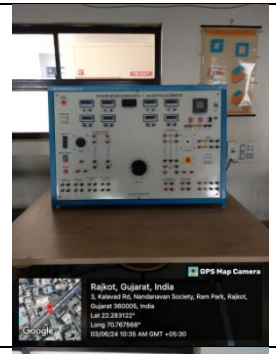
| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 46 | DC Shunt motor coupled with salient pole alternator | DC Shunt motor coupled with salient pole alternator | FoET (Electrical) |  |
| Main Building, B Wing, Ground Floor | 46 | BLDC Training kit | BLDC Training kit for EV Practicle | FoET (Electrical) |  |

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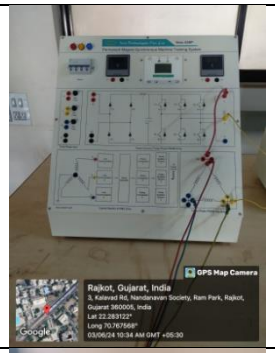
| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 46 | PMSM Training kit | PMSM Training kit for EV Practicle | FoET (Electrical) |  |
| Main Building, B Wing, Ground Floor | 53 | Absorption Refrigeration System | Facilitate cooling through the absorption and desorption processes using a heat-driven cycle. | FoET (Mechanical) |  |
| Main Building, B Wing, Ground Floor | 53 | Air Conditioning Test Rig | Simulate and evaluate the performance of air conditioning systems under controlled conditions | FoET (Mechanical) |  |

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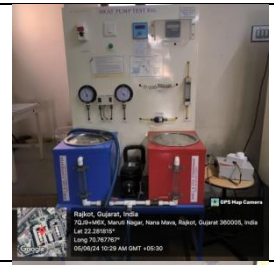
| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 53 | Heat Pump Test Rig | Evaluate and analyze the performance and efficiency of heat pump systems under controlled conditions | FoET (Mechanical) |  |
| Main Building, B Wing, Ground Floor | 53 | Ice Plant Test Rig | Simulate and assess the performance of ice-making systems for efficiency and operational analysis | FoET (Mechanical) |  |
| Main Building, B Wing, Ground Floor | 53 | Refrigeration Test Rig | Evaluate and analyze the performance and efficiency of refrigeration systems under controlled conditions. | FoET (Mechanical) |  |

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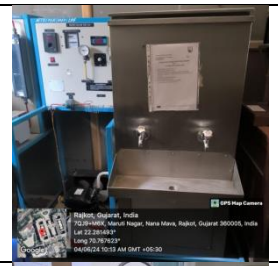
| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 53 | Water Cooler Test Rig | Assess and analyze the performance and efficiency of water cooling systems using refrigeration technology under controlled conditions. | FoET (Mechanical) |  |
| Main Building, B Wing, Ground Floor | 56 | Single Disc Polishing Machine | Achieve a smooth and reflective surface finish on materials through abrasive polishing. | FoET (Mechanical) |  |
| Main Building, B Wing, Ground Floor | 56 | Metallurgical Microscope | Examine and analyze the microstructure of metallic materials with high magnification and clarity. | FoET (Mechanical) |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 56 | Muffle Furnace | heat materials to high temperatures in a controlled atmosphere, typically for processes like annealing, sintering, or heat treatment. | FoET (Mechanical) |  |
| Main Building, B Wing, Ground Floor | 56 | Isomat Profile Projector | Accurately measure and inspect the dimensions and features of objects using optical magnification and profile comparison. | FoET (Mechanical) |  |
| Main Building, B Wing, Ground Floor | 56 | Hardness Testing Machine | Determine the resistance of a material to indentation or penetration, providing information about its mechanical properties such as hardness. | FoET (Mechanical) |  |

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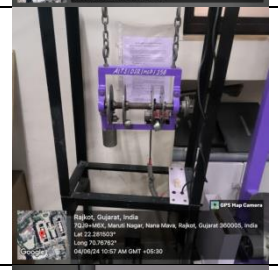
| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 57 | Universal Vibration Apparatus | Simulate and analyze mechanical vibrations of various structures or components for testing and analysis. | FoET (Mechanical) |  |
| Main Building, B Wing, Ground Floor | 57 | Static & Dynamic Balancing Apparatus | Measure and correct imbalances in rotating machinery to ensure smooth and efficient operation. | FoET (Mechanical) |  |
| Main Building, B Wing, Ground Floor | 57 | Epicyclic gear train & torque apparatus | Demonstrate and study the principles of gear trains, torque transmission, and rotational motion in mechanical systems. | FoET (Mechanical) |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 58 | Apparatus of critical radius of heat material | Determine the minimum radius at which heat can be conducted or transferred efficiently in a material. | FoET (Mechanical) |  |
| Main Building, B Wing, Ground Floor | 58 | Apparatus of emissivity measurement | Quantify the emissivity of a material, which indicates its ability to emit thermal radiation relative to an ideal black body. | FoET (Mechanical) |  |
| Main Building, B Wing, Ground Floor | 58 | Apparatus of heat in natural convection | Study and demonstrate heat transfer phenomena through natural convection in fluids, without the aid of external forces like pumps or fans. | FoET (Mechanical) |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 58 | Apparatus of heat transfer forced convection | Investigate and analyze heat transfer phenomena when a fluid is forced to flow over a surface, enhancing heat transfer rates compared to natural convection. | FoET (Mechanical) |  |
| Main Building, B Wing, Ground Floor | 58 | Apparatus of heat transfer from pin fin | Study and analyze heat dissipation and tran sfer characteristics of pin fins, commonly used in heat exchangers and cooling systems. | FoET (Mechanical) |  |
| Main Building, B Wing, Ground Floor | 58 | Apparatus of heat transfer through composite wall | Investigate and measure the thermal conductivity and heat transfer properties of different materials layered together. | FoET (Mechanical) |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 58 | Apparatus of heat transfer through Pipe | Analyze and measure the thermal conductivity and heat transfer rates in fluid flow through pipes. | FoET (Mechanical) |  |
| Main Building, B Wing, Ground Floor | 58 | Apparatus of stephenboltzman | Verify the Stefan-Boltzmann law by measuring the radiant energy emitted by a black body as a function of its temperature. | FoET (Mechanical) |  |
| Main Building, B Wing, Ground Floor | 58 | Apparatus of thermal cond. by guarded hot plate (solid) | Measure the thermal conductivity of insulating materials accurately by maintaining a steady-state temperature gradient across the sample. | FoET (Mechanical) |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 58 | Apparatus of thermal cond.of insulating powder | Determine the thermal conductivity of insulating powder materials by analyzing heat transfer through the powder sample. | FoET (Mechanical) |  |
| Main Building, B Wing, Ground Floor | 58 | Apparatus of thermal cond.of metal bar | Measure and analyze the thermal conductivity of a metal bar by observing heat transfer along its length. | FoET (Mechanical) |  |
| Main Building, B Wing, Ground Floor | 58 | Air compressor test rig (double stage reciprocating) | Evaluate the performance, efficiency, and operational characteristics of air compressors under controlled conditions. | FoET (Mechanical) |  |

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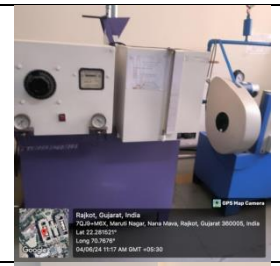
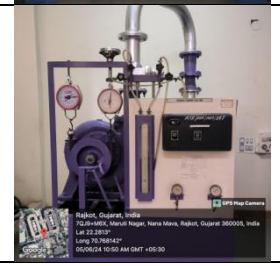
| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 32 | Centrifugal pump test rig | Analyze and evaluate the performance characteristics and efficiency of centrifugal pumps under various operating conditions. | FoET (Mechanical) |  |
| Main Building, B Wing, Ground Floor | 32 | Flow over notches apparatus | Study and measure the flow rate of liquids over different types of notches, such as V-notches and rectangular notches, for hydraulic analysis. | FoET (Mechanical) |  |
| Main Building, B Wing, Ground Floor | 32 | Francis Turbine Test Rig | Evaluate the performance and efficiency of a Francis turbine by measuring parameters such as flow rate, pressure, and power output under various operating conditions. | FoET (Mechanical) |  |

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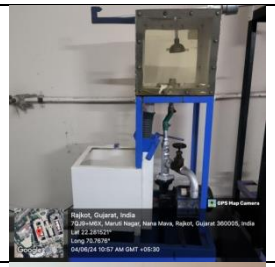
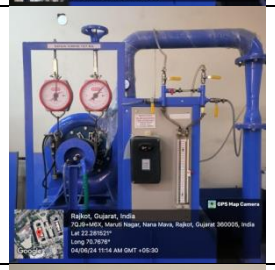
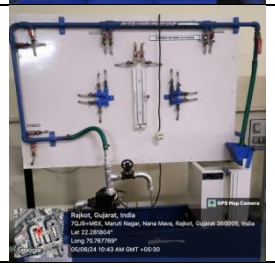
| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 32 | Impact of Jet Apparatus | Study the force exerted by a jet of fluid on different surfaces and to analyze the principles of momentum transfer in fluid mechanics. | FoET (Mechanical) |  |
| Main Building, B Wing, Ground Floor | 32 | Kaplan Turbine Test Rig | Assess and analyze the performance and efficiency of a Kaplan turbine by measuring parameters like flow rate, pressure, and power output under varying conditions. | FoET (Mechanical) |  |
| Main Building, B Wing, Ground Floor | 32 | Losses in Pipe Fittings | Quantify and analyze the pressure losses incurred due to fittings like bends, elbows, tees, and valves in a piping system. | FoET (Mechanical) |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 32 | Losses in Pipe Friction | Measure and analyze the pressure losses due to friction in a pipe flow, aiding in the study of fluid dynamics and energy losses in piping systems. | FoET (Mechanical) |  |
| Main Building, B Wing, Ground Floor | 32 | Nozzle Meter Apparatus | Measure the flow rate of liquids by utilizing the pressure difference across a converging-diverging nozzle. | FoET (Mechanical) |  |
| Main Building, B Wing, Ground Floor | 32 | Orifice & Mouth Piece Apparatus | Measure fluid flow rates using different flow measurement devices, aiding in fluid mechanics studies and practical applications. | FoET (Mechanical) |  |

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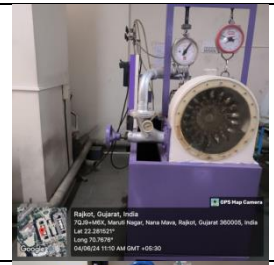
| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 32 | Pelton wheel turbine test rig | Assess and analyze the performance and efficiency of a Pelton turbine by measuring parameters like flow rate, pressure, and power output under varying conditions. | FoET (Mechanical) |  |
| Main Building, B Wing, Ground Floor | 32 | Piezo Meter Apparatus | Measure the pressure at a specific point in a fluid flow, aiding in the analysis of fluid dynamics and hydraulic systems. | FoET (Mechanical) |  |
| Main Building, B Wing, Ground Floor | 32 | Pitot Tube Test Rig | Measure the velocity of fluid flow in a pipe or duct by utilizing the principle of total pressure measurement. | FoET (Mechanical) |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 32 | Pressure Measurement Apparatus | Quantify and monitor the pressure within a system or fluid medium for engineering, scientific, or industrial purposes. | FoET (Mechanical) |  |
| Main Building, B Wing, Ground Floor | 32 | Reciprocating Pump Test Rig | Evaluate the performance, efficiency, and operational characteristics of reciprocating pumps under controlled conditions. | FoET (Mechanical) |  |
| Main Building, B Wing, Ground Floor | 32 | Redwood &Saybolt Viscometer Apparatus | Measure the viscosity of liquids, particularly petroleum products, to assess their flow properties and quality. | FoET (Mechanical) |  |

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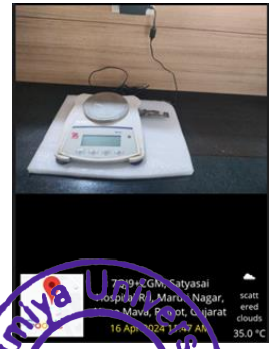
| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Ground Floor | 32 | Reynold's Apparatus | Visualize and study fluid flow patterns, particularly laminar and turbulent flow, by varying parameters like velocity, viscosity, and pipe diameter. | FoET (Mechanical) |  |
| Main Building, B Wing, Ground Floor | 32 | Verification of Bernoulli's Theorem Apparatus | Demonstrate and validate the principles of Bernoulli's equation in fluid flow, including the relationship between pressure, velocity, and elevation in a streamline flow. | FoET (Mechanical) |  |
| Main Building, B Wing, Third Floor | 326 | WEIGHING BALANCE | For the correct weight of samples, reagents, media etc. | FoS Life Science |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Third Floor | 326 | UV SPEC | For quantifying nucleic acid and protein content in biological samples and for quality control in drugs and food industries. | FoS Life Science |  |
| Main Building, B Wing, Third Floor | 326 | WATER BATH | For incubation of biological samples in water at a constant temperature over a long period of time. | FoS Life Science |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Third Floor | 326 | INCUBATOR | For the growth and maintenance of microbiological cultures. | FoS Life Science |   |
| Main Building, B Wing, Third Floor | 326 | UV SPEC | For quantifying nucleic acid and protein content in biological samples. | FoS Life Science |   |

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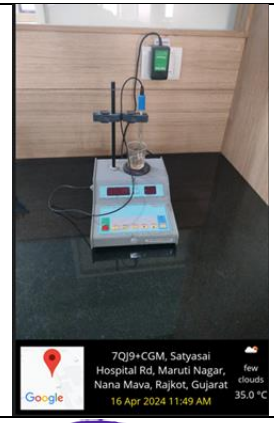
| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Third Floor | 326 | HOT AIR OVEN | For the sterilization process and checking temperature stability of samples. | FoS Life Science |   |
| Main Building, B Wing, Third Floor | 326 | pH BALANCE | For checking and maintaining the pH of various solvents, solution and reagents | FoS Life Science |   |

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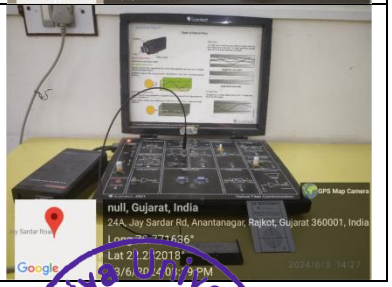
| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Third Floor | 415 | Microwave | | FoHS |  |
| Main Building, B Wing, Third Floor | 340 | Ultrasonic Interferometer | To measure wavelength of ultrasonic sound | S&H, FoET |   |
| Main Building, B Wing, Third Floor | 340 | Fibre optic trainer kit | To measure Numerical Aperture of optical fibre | S&H, FoET |   |

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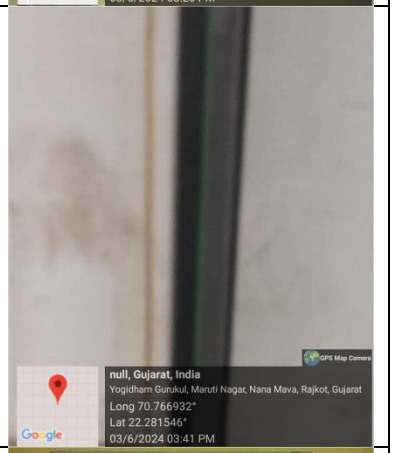
| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Third Floor | 340 | Band gap apparatus | To measure the energy gap of semiconductor | S&H, FoET |  |
| Main Building, B Wing, Third Floor | 340 | Resonance tube apparatus | To measure the velocity of sound in air | S&H, FoET |  |
| Main Building, B Wing, Third Floor | 340 | Zener diode apparatus | To measure the IV characteristics of Zener diode | S&H, FoET |  |

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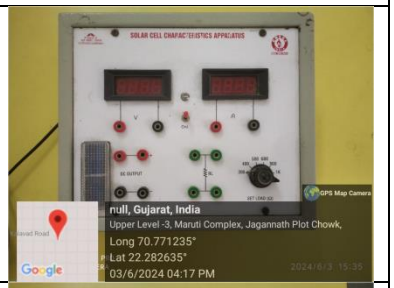
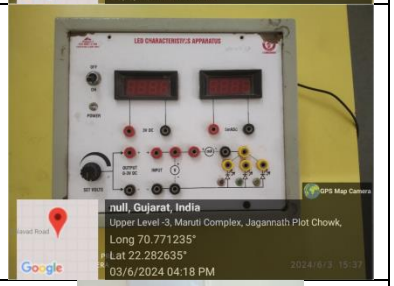
| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, B Wing, Third Floor | 340 | Solar cell apparatus | To measure the IV characteristics of Solar cell | S&H, FoET |  |
| Main Building, B Wing, Third Floor | 340 | LED apparatus | To measure the IV characteristics of LED | S&H, FoET |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Potentiometer | Measures electromotive force (EMF) or potential difference of a circuit. | FoHS - Pharmacy |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, A Wing, Fourth floor | 423 (1) | Digital Nephlo Turbidity meter-132 | Measures turbidity or cloudiness of liquids, indicating particle concentration. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Flame Photometer 128 | Measures concentration of certain metal ions in solutions using flame emission. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Photofuloro meter 152 | Detects and measures fluorescence intensity of compounds for analysis. | FoHS - Pharmacy |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, A Wing, Fourth floor | 423 (1) | Refractometer | Measures refractive index to determine concentration or purity of substances. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Conductivity meter | Measures electrical conductivity of a solution to assess ionic content. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | AutoColori meter VsI 401 | Determines concentration of colored compounds in a solution using absorbance. | FoHS - Pharmacy |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, A Wing, Fourth floor | 423 (1) | AutoColori meter VsI 401 | Measures optical rotation to identify chiral substances or concentration of optically active compounds. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Polarimeter | Determines water content in samples using Karl Fischer titration. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Auto Karl Fischer Tritrator 349 | Used for electrophoresis gel documentation and analysis in molecular biology. | FoHS - Pharmacy |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, A Wing, Fourth floor | 423 (1) | Doc gel Apparatus | High-Performance Liquid Chromatography for separating, identifying, and quantifying compounds. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | HPLC | Measures absorbance/transmittance of UV and visible light for compound analysis. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | UV – visible Spectrophoto meter | Determines pH of solutions, indicating acidity or alkalinity. | FoHS - Pharmacy |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, A Wing, Fourth floor | 423 (1) | Digital PH Meter | Provides high-resolution magnification for biological or material specimen analysis. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Digital Trinocular Microscope | Dual eyepiece microscope for detailed examination of slides or samples. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Digital Binocular Microscope | Measures absorbance of specific wavelengths in colored solutions for analysis. | FoHS - Pharmacy |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, A Wing, Fourth floor | 423 (1) | Digital Colorimeter | Cleans lab equipment or disperses particles using high-frequency sound waves. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Digital UltraSonicclener ( Sonicator) | Creates vacuum for filtration, drying, or other lab processes. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Digital UltraSonicclener ( Sonicator) | Measures viscosity of fluids to determine flow properties. | FoHS - Pharmacy |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, A Wing, Fourth floor | 423 (1) | Digital UltraSonicclener ( Sonicator) | Accurately measures conductivity, indicating ionic concentration in solutions. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Vacuum Pump (Rocker 400) | Measures mass of samples with high precision. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Brookfield Viscometer | Measures absorbance/transmittance across UV-visible range for chemical analysis. | FoHS - Pharmacy |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, A Wing, Fourth floor | 423 (1) | Digital PH meter | Extracts soluble compounds from solid samples using solvent cycles. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Conductivity meter (con 700) | Grinds solid materials into fine powder for analysis. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Digital PH meter | Measures light absorbance in the visible spectrum for quantitative analysis. | FoHS - Pharmacy |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, A Wing, Fourth floor | 423 (1) | Electronic Balance Sensitivity -0.01mg | Separates DNA, RNA, or proteins based on size and charge in a gel. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Digital PH meter | Produces high vacuum for sensitive lab applications or instruments. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Conductivity meter 304 | Dries heat-sensitive samples under vacuum to avoid degradation. | FoHS - Pharmacy |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, A Wing, Fourth floor | 423 (1) | Digital Spectrophoto meter VN 600 | Cuts thin slices of samples for microscopic examination. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (3) | Soxhlet Extraction Apparatus | Measures moisture content in samples through weight loss on drying. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Willy mill | Spins samples at high speed for separation of components. | FoHS - Pharmacy |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, A Wing, Fourth floor | 423 (1) | Visible Spectrophoto meter | Burns and disposes of waste materials safely at high temperatures. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Elecrophorosis | Provides uniform mixing of samples by rotating or shaking. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | High Vacuum Pump | Sterilizes equipment and media using high-pressure steam. | FoHS - Pharmacy |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, A Wing, Fourth floor | 423 (1) | Vacuum Oven | Measures bulk density of powders or granules for quality control. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Vacuum Pump (orchid) | Tests drug dissolution in simulated gastric or intestinal fluids. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Microtome | Cleans ampoules to ensure sterility before filling. | FoHS - Pharmacy |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, A Wing, Fourth floor | 423 (1) | Moisture balance | Tests mechanical strength of tablets by measuring their resistance to abrasion. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Micro centrifuge | Fills and seals ampoules for liquid pharmaceutical formulations. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Incenerator | Heats samples in labs for reactions or melting. | FoHS - Pharmacy |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, A Wing, Fourth floor | 423 (1) | Rotary Shaker | Fills empty capsules with powders, granules, or liquids. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Autoclve | Coats tablets with protective or therapeutic layers. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Digital Bulk Density Appratus | Provides sterile environment for microbial or pharmaceutical processes. | FoHS - Pharmacy |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, A Wing, Fourth floor | 423 (1) | 3 in 1 Disodisi tester | Determines the melting point of solid compounds for identification. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Ampoule Washing machine | Mixes solid and liquid ingredients uniformly. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Friability tester | Tests time required for tablets to disintegrate in a fluid. | FoHS - Pharmacy |  |

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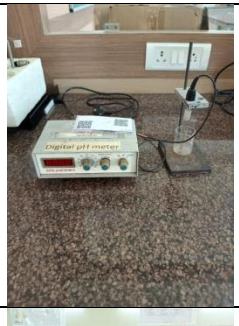
| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, A Wing, Fourth floor | 423 (1) | Digital PH meter | Sterilizes samples or equipment digitally monitored for precision. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Ampoule Sealing And Filling machine | Compresses powder into tablets of uniform size and weight. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Hot Plate | Removes moisture from materials using hot air circulation. | FoHS - Pharmacy |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, A Wing, Fourth floor | 423 (1) | Capsule Filling Machine | Mixes liquids or solutions using mechanical stirring. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Tablet Coating Pan | Cleans bottles for pharmaceutical or industrial use. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Aseptic Cabinet | Extracts liquid from plant materials under pressure. | FoHS - Pharmacy |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, A Wing, Fourth floor | 423 (1) | Melting Point Apparatus | Fills tubes with ointments or creams efficiently. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Mass Mixture Hand Operated | Blends and homogenizes samples for uniform particle distribution. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Disintigration Apparatus | Maintains controlled environment for biological oxygen demand testing. | FoHS - Pharmacy |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, A Wing, Fourth floor | 423 (1) | Digital Autoclav | Separates particles based on size using vibratory motion. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Rotary Tablet Punching Machine | Seals bottles to ensure sterility and prevent leaks. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Tray Dryer | Provides uniform heating for sterilization or drying. | FoHS - Pharmacy |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, A Wing, Fourth floor | 423 (1) | Michenical Stirrer | Precisely fills liquids into containers or bottles. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Bottle Washing machine | Measures electromotive force (EMF) or potential difference of a circuit. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Ticture Press | Measures turbidity or cloudiness of liquids, indicating particle concentration. | FoHS - Pharmacy |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, A Wing, Fourth floor | 423 (1) | Ointment Tube Filling Machine | Measures concentration of certain metal ions in solutions using flame emission. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Homogenizer | Detects and measures fluorescence intensity of compounds for analysis. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | B.O.D. Incubator | Measures refractive index to determine concentration or purity of substances. | FoHS - Pharmacy |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, A Wing, Fourth floor | 423 (1) | Seive Shaker | Measures electrical conductivity of a solution to assess ionic content. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Bottle Sealing machine | Determines concentration of colored compounds in a solution using absorbance. | FoHS - Pharmacy |  |
| Main Building, A Wing, Fourth floor | 423 (1) | Hot Air Oven | Measures optical rotation to identify chiral substances or concentration of optically active compounds. | FoHS - Pharmacy |  |

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| Building | Room/Lab No. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Main Building, A Wing, Fourth floor | 423 (1) | Liquid Filling machine | Determines water content in samples using Karl Fischer titration. | FoHS - Pharmacy |  |

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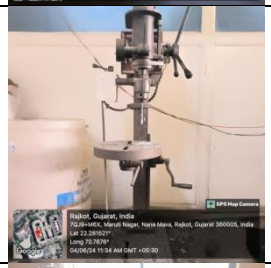
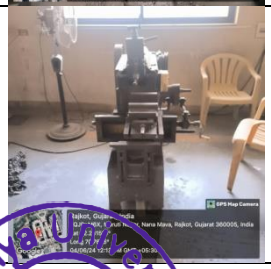
# Details of Instruments - Workshop

| Building | Room no. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Workshop, Ground Floor | 01 | Milling Machine | Remove material from a workpiece using rotary cutters to achieve desired shapes, dimensions, and surface finishes. | FoET (Mechanical) |  |
| Workshop, Ground Floor | 01 | Drilling Machine | Create holes in workpieces using rotating drill bits, enabling precise and accurate hole-making operations in various materials. | FoET (Mechanical) |  |
| Workshop, Ground Floor | 01 | Shaper Machine | Produce flat surfaces, slots, and irregular shapes on workpieces by removing material using a reciprocating cutting tool. | FoET (Mechanical) |  |

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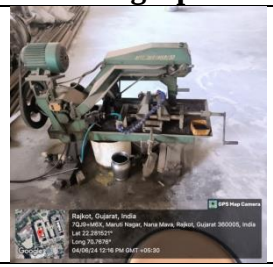
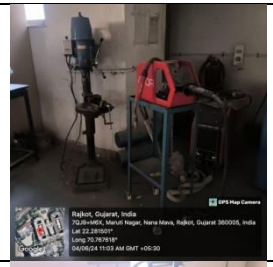
| Building | Room no. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Workshop, Ground Floor | 01 | Hackshaw Cutting Machine | Cut through materials by using a manual saw with a fine-toothed blade, often used for metalworking or woodworking tasks. | FoET (Mechanical) |  |
| Workshop, Ground Floor | 01 | TIG Machine | Join metals together by creating an arc between a non-consumable tungsten electrode and the workpiece while shielding the weld zone with inert gas. | FoET (Mechanical) | |
| Workshop, Ground Floor | 01 | MIG Machine | Join metals together by using a consumable electrode wire that melts and forms a weld pool, while shielding the weld zone with inert gas. | FoET (Mechanical) |  |
| Workshop, Ground Floor | 01 | Arc Welding Machine | Join metals together by creating an electrical arc between a welding electrode and the workpiece, melting the metals and forming a weld joint. | FoET (Mechanical) |  |

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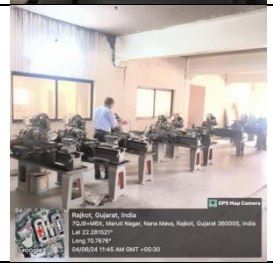
| Building | Room no. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Workshop, Ground Floor | 01 | CNC Machine | Automate and control machining operations with high precision and accuracy using computer programs and machine tools. | FoET (Mechanical) |  |
| Workshop, Ground Floor | 01 | VMC Machine | Perform milling, drilling, and cutting operations on workpieces with precision and efficiency using vertical spindle orientation and computer programs | FoET (Mechanical) |  |
| Workshop, Ground Floor | 01 | Lathe Machine | Perform various machining operations such as turning, facing, drilling, and threading on workpieces to achieve desired shapes and dimensions. | FoET (Mechanical) |  |

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# Details of Instruments - Science Building

| Building | Room no. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Science Building, Second Floor | 215 | Thermocycler | For exponential amplification of gene (DNA) | FoS, Life Science |   |
| Science Building, Second Floor | 215 | Biosafety Cabinet | For working with biohazardous or infectious organisms to prevent contamination | FoS, Life Science |  |

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| Building | Room no. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Science Building, Second Floor | 215 | Thermocycler | For exponential amplification of gene (DNA) | FoS<br>Life Science |  |
| Science Building, Second Floor | 215 | Centrifuge | For separation of particles suspended in aqueous medium according to particle size and density, viscosity of the medium, and rotor speed. | FoS<br>Life Science |  |

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| Building | Room no. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Science Building, Second Floor | 215 | Orbital Shaker | For a variety of general-purpose shaking applications in cell culture, bacterial growth and suspension, staining and washing procedures. | FoS<br>Life Science |  |
| Science Building, Second Floor | 215 | Clone Zone Biosafety Cabinet | This cabinet is specially designed to save the user from all kinds of biological hazards. | FoS<br>Life Science |  |

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| Building | Room no. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Science Building, Second Floor | 215 | Gel Doc | For recording and analyzing differently stained gels and membranes from gel electrophoresis and membrane blotting experiments | FoS<br>Life Science |  |
| Science Building, Second Floor | 210 | Deep Freezer | For storing and organizing a different kind of biological samples for a long time, from a few months up to even a couple of years. | FoS<br>Life Science |  |

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| Building | Room no. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Science Building, Second Floor | 210 | Inverted Microscope | For live cell imaging. | FoS<br>Life Science |  |
| Science Building, Second Floor | 210 | Laminar Air Flow | For aseptic culturing of animal cells | FoS<br>Life Science |  |

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| Building | Room no. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Science Building, Second Floor | 210 | Co2 Incubator | For growth and maintenance of animal cells | FoS<br>Life Science |  |
| Science Building, Second Floor | 210 | Centrifuge | For separation of particles suspended in aqueous medium according to particle size and density, viscosity of the medium, and rotor speed. | FoS<br>Life Science |  |

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| Building | Room no. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Science Building, Second Floor | 207 | Bod Incubator | For determining levels of organic matter and nitrogen in wastewater samples. For providing the required temperature for microbial growth and performing the BOD testing. | FoS<br>Life Science |  |
| Science Building, Second Floor | 207 | Orbital Shaker | For a variety of general-purpose shaking applications in bacterial growth and suspension, etc along with staining and washing procedures. | FoS<br>Life Science |  |

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| Building | Room no. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Science Building, Second Floor | 207 | Bead Ruptor | For grinding, lysing, and homogenizing biological samples prior to molecular extraction | FoS<br>Life Science |  |
| Science Building, Second Floor | 207 | Visible Spectrophotometer | For quantifying nucleic acid and protein content in biological samples. | FoS<br>Life Science |  |

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| Building | Room no. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Science Building, Second Floor | 207 | Microoven | For media preparation extraction, disinfection, etc. | FoS<br>Life Science |  |
| Science Building, Second Floor | 207 | Water Bath | For incubation of biological samples in water at a constant temperature over a long period of time. | FoS<br>Life Science |  |

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| Building | Room no. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Science Building, Second Floor | 207 | Inverted Microscope | For live imaging of cells | FoS<br>Life Science |  |
| Science Building, Second Floor | 207 | Incubator | For the growth and maintenance of microbiological cultures. | FoS<br>Life Science |  |

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| Building | Room no. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Science Building, Second Floor | 207 | Cooling Centrifuge | For separation of cells, organelles, and cellular components, such as DNA, RNA, and proteins in cold conditions. | FoS<br>Life Science |  |
| Science Building, Second Floor | 213 | Incubator | For the growth and maintenance of microbiological cultures. | FoS<br>Life Science |  |

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| Building | Room no. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Science Building, Second Floor | 213 | Orbital Shaker | For a variety of general-purpose shaking applications in bacterial growth and suspension, etc along with staining and washing procedures. | FoS<br>Life Science |  |
| Science Building, Second Floor | 204 | Laminar Air Flow | For aseptic culturing and maintenance of plant tissue, callus etc. | FoS<br>Life Science |  |

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| Building | Room no. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Science Building, Second Floor | 204 | Deep Freezer | For storing and organizing different kind of biological samples for a long time, from a few months up to even a couple of years. | FoS<br>Life Science |  |
| Science Building, Second Floor | 204 | Laminar Air Flow | For aseptic culturing and maintenance of plant tissue, callus etc. | FoS<br>Life Science |  |

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| Building | Room no. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Science Building, Second Floor | Preparation room | Refrigerator | For the storage of biological samples for long durations. | FoS<br>Life Science |  |
| Science Building, Second Floor | Preparation room | Hot Air Oven | For sterilization process and checking temperature stability of samples. | FoS<br>Life Science |  |

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| Building | Room no. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Science Building, Second Floor | Preparation room | Auoclave | For decontaminating biological waste and sterilizing media, instruments and lab ware. | FoS<br>Life Science |  |
| Science Building, Second Floor | 217 | Weighing Balance | For the correct weighing of samples, reagents, media etc. | FoS<br>Life Science |  |

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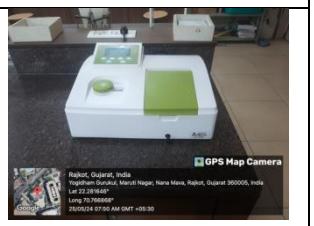
| Building | Room no. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Science Building, Thirdfloor | 305 | Spectrophoto Metre | Determine metal ion concentration | Fos Chemistry |  |
| Science Building, Third floor | 305 | Ph-Metre | Determine unknown concentration of solution | Fos Chemistry |  |
| Science Building, Third floor | 305 | Ph-Metre | Determine unknown concentration of solution | Fos Chemistry |  |

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| Building | Room no. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Science Building, Third floor | 305 | Ph-Metre | Determine unknown concentration of solution | Fos Chemistry |  |
| Science Building, Third floor | 305 | Polarimetre | Determine Specific rotation of solution | Fos Chemistry |  |
| Science Building, Third floor | 305 | Conductometre | Determine unknown concentration of solution | Fos Chemistry |  |
| Science Building, Third floor | 305 | Conductometre | Determine unknown concentration of solution | Fos Chemistry |  |

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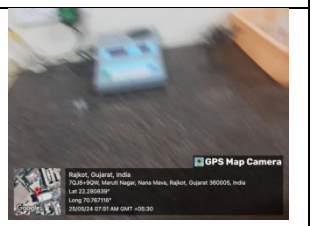
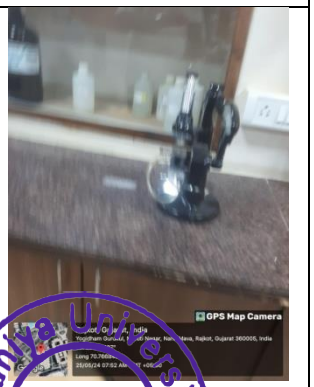
| Building | Room no. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Science Building, Third floor | 305 | Conductometre | Determine unknown concentration of solution | Fos Chemistry |  |
| Science Building, Third floor | 305 | Ultrasonic Interferometer | Determine Compresibility of unknown concentration of solution | Fos Chemistry |  |
| Science Building, Third floor | 305 | Refractometre | Determine Refractive index of unknown concentration of solution | Fos Chemistry |  |

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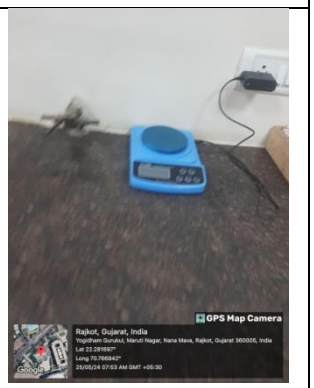
| Building | Room no. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Science Building, Third floor | 305 | Weight Balance | Determine weight of substance | Fos Chemistry |  |
| Science Building, Third floor | 314 | UvSpectrophoto Meter | To determine Y max of given solution | Fos Chemistry |  |

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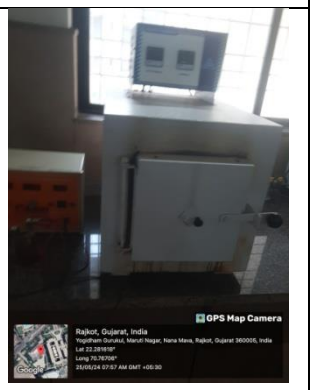
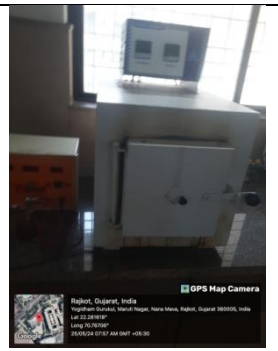
| Building | Room no. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Science Building, Third floor | 314 | Furnace | heat the substance up to 1200 C | Fos Chemistry |  |
| Science Building, Third floor | 315 | Furnace | 1200 degree celcius | Fos Chemistry |  |

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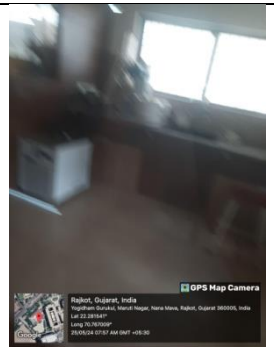
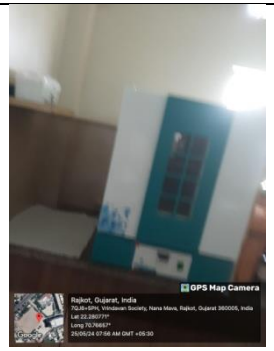
| Building | Room no. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Science Building, Third floor | 314 | Rotavapor | Distillation, Separationand purification | Fos Chemistry |  |
| Science Building, Third floor | 315 | Hot Own | dry compound | Fos Chemistry |  |

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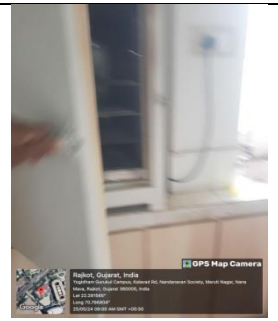
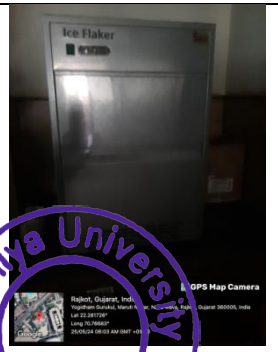
| Building | Room no. | Instrument Name | Instrument Purpose | Faculty & Dept. | Geo Tagged Photographs |
|---|---|---|---|---|---|
| Science Building, Third floor | 315 | Hot Own | dry compound | Fos Chemistry |  |
| Science Building, Third floor | 305 | Old Weight Balance | weight compound | Fos Chemistry |  |
| Science Building, Third floor | 314 | Ice Maker | PREPARE ICE | Fos Chemistry |  |

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