

**Proposal
for
Extension of Autonomous Status**

**List of Lab Equipment's
Department of Applied
Sciences**

**Amritsar Group of Colleges,
Amritsar**

(Autonomous College since 2014)

(NAAC Grade "A" in 3rd Cycle)


S. No	Laboratory / Workshop	Page Numbers
1	Chemistry Lab	1-4
2	Physics Lab	5-11
3	Language Lab	13-15

Picture of the Lab (Outside – showing the name plate)







Picture of the Lab (Inside – showing a wider view of the lab)








 <p>AMRITSAR GROUP OF COLLEGES</p> <p>NAAC Grade "A" 3rd Cycle under Autonomous Category</p> <p>Autonomous College (Since 2014) Conferred by UGC</p>	<h2>Chemistry Lab</h2>	<h2>Applied Sciences Department</h2>
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Details of the Laboratory Equipment's

S. N.	Name of Equipment	Description / Specification of the Equipment	Quantity	Normal Picture	Geotagged Picture
1.	Conductivity meter	To check the specific conductance of solution.	4		
2.	Funnels	To transfer liquids into containers or to hold filter paper	16		

3.	Beakers	To hold , mix or heat liquids	121		
4.	Measuring Cylinders	Used to measure the volume of liquids accurately.	45		
5.	Stalagmometers	Used to measure the surface tension of liquids	59		

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6.	Flasks	Used to hold , mix or heat liquids	43		
7.	Burette	Used to deliver , precise and measure the volume of liquid	25		

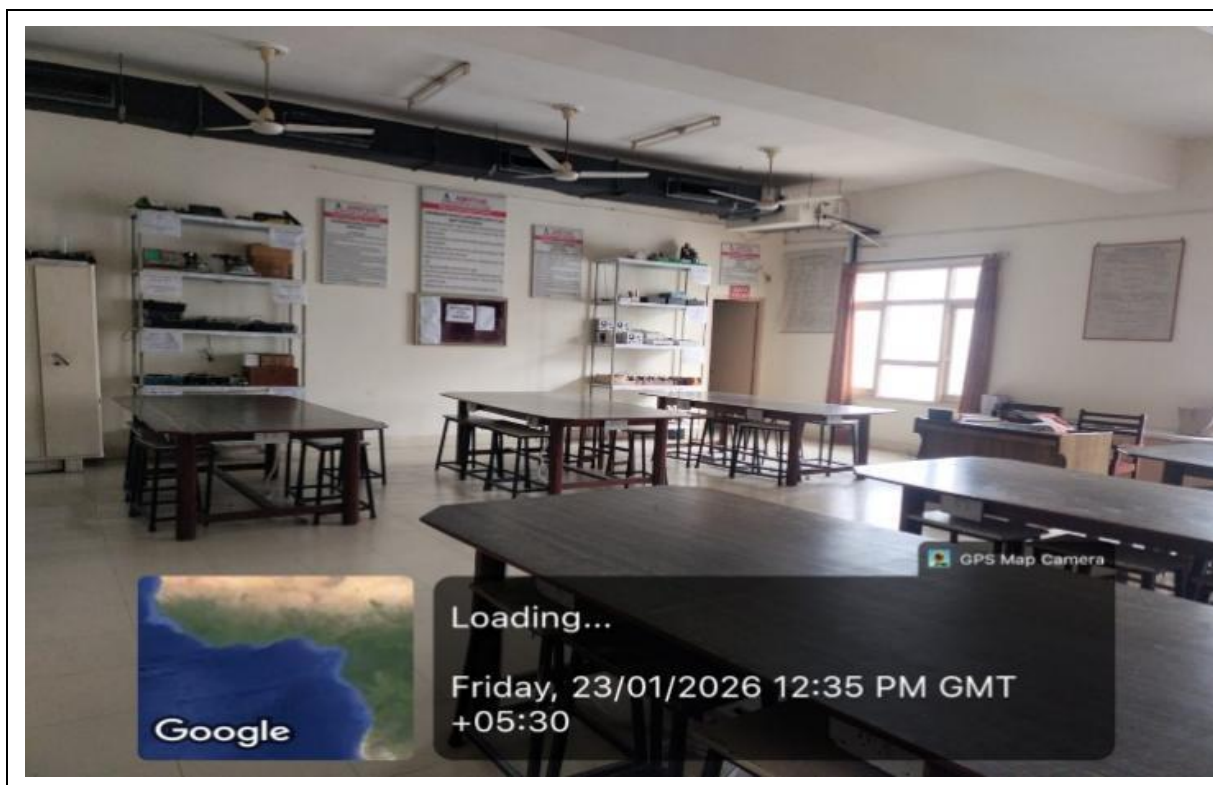
Note: This proforma must include all types of laboratory equipment, including computer systems, licensed software, projectors, smart screens, and other ICT-enabled teaching-learning resources.

Name of the Laboratory: Engineering Physics Laboratory




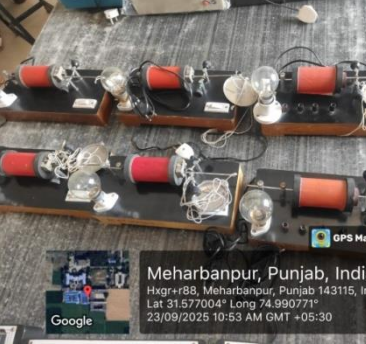
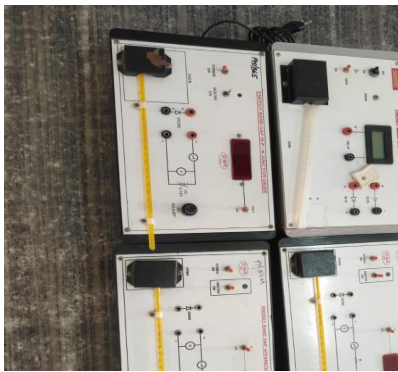



Picture of the Lab (Outside – showing the name plate)






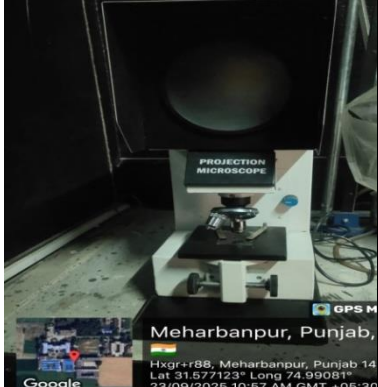
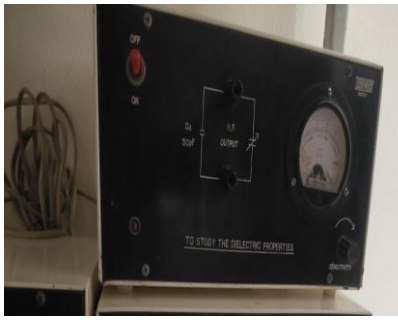








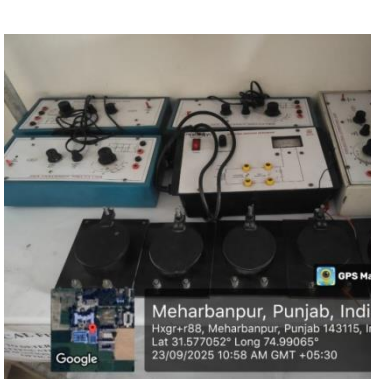


Picture of the Lab (Inside – showing a wider view of the lab)



















Details of the Laboratory Equipment's





S. No.	Name of Equipment	Description / Specification of the Equipment	Quantity	Normal Picture	Geotagged Picture
1.	He-Ne LASER	A He-Ne laser is a gas laser that uses a mixture of helium and neon inside a sealed glass tube to produce laser light.	2		
2.	AC mains Vibrator	An AC mains vibrator is an electromechanical device that converts AC mains power into mechanical vibration	6		
3.	Band Gap Apparatus	The band gap apparatus consists of a semiconductor diode mounted inside a temperature-controlled enclosure, along with a regulated power supply, voltmeter, ammeter (microammeter), and a temperature sensor	4		
4.	Optical Microscope	An Optical Microscope (also called a light microscope) is an instrument that uses visible light and a system of lenses to produce a magnified image of small objects that cannot be seen clearly with the naked eye.	7		

5.	Optical Fibre	An Optical Fibre is a thin, flexible transparent medium that transmits light signals from one end to the other using the principle of total internal reflection.	5		
6.	Spectrometer	A Spectrometer is an optical instrument used to measure wavelengths of light and to study the spectral composition of a source.	7		
7.	Projection Microscope	A Projection Microscope is an optical instrument used to project a highly magnified image of a small object onto a screen, so it can be viewed by many people at the same time.	2		
8.	Dielectric Apparatus	A Dielectric Apparatus is an experimental setup used to determine the dielectric constant (relative permittivity) of a given insulating material.	6		

9.	Travelling Microscope	A Travelling Microscope is a precision optical instrument used to measure very small linear distances accurately, especially in physics laboratories.	3		 Amritsar, Punjab, India Room 207(prabhat,aashish,rajat,sandip, Amr Punjab 143001, India Lat 31.576762° Long 74.991022° 30/09/2025 02:16 PM GMT +05:30
10.	R. F. Oscillator	An R.F. Oscillator (Radio-Frequency Oscillator) is an electronic circuit used to generate high-frequency alternating signals in the radio-frequency range without any external input signal.	1		 Meharbanpur, Punjab, India Hxgr+r88, Meharbanpur, Punjab 143115, In Lat 31.577012° Long 74.990688° 23/09/2025 10:59 AM GMT +05:30
11.	Dielectric Constant Apparatus	A Dielectric Constant Apparatus is a laboratory instrument used to determine the dielectric constant (relative permittivity) of a material by measuring the capacitance of a capacitor with and without the dielectric.	7		 Meharbanpur, Punjab, India Hxgr+r88, Meharbanpur, Punjab 143115, In Lat 31.577052° Long 74.99068° 23/09/2025 10:58 AM GMT +05:30
12.	Constant Current Power Supply	A Constant Current Power Supply (CCPS) is an electrical device that provides a steady current to a load regardless of changes in load resistance or supply voltage. It is widely used in electronics	1		 Meharbanpur, Punjab, India Hxgr+r88, Meharbanpur, Punjab 143115, In Lat 31.577159° Long 74.990769° 23/09/2025 10:57 AM GMT +05:30

13.	Sodium Lamp; He- Ne lamp	A sodium lamp is a type of gas discharge lamp that produces light by passing an electric current through vaporized sodium. It emits yellow-orange light, which is almost monochromatic, primarily at 589 nm (sodium D-lines).	3		 <p>Meharbanpur, Punjab, India Hxgr+r88, Meharbanpur, Punjab 14 Lat 31.577128° Long 74.990822° 23/09/2025 10:57 AM GMT +05:30</p>
14.	R. F. Oscillator Ultrasonic	An R.F. oscillator is an electronic circuit that generates a continuous sinusoidal signal in the radio frequency range (typically 10 kHz to several GHz) without any input signal.	1		 <p>Meharbanpur, Punjab, India Hxgr+r88, Meharbanpur, Punjab 143115, In Lat 31.577173° Long 74.990818° 23/09/2025 10:56 AM GMT +05:30</p>
15.	Power Supply for Stewart and Gees	The Stewart–Gees potentiometer is a sensitive instrument for measuring potential difference or unknown voltage. To operate it accurately, a stable and adjustable DC power supply is required.	7		 <p>Meharbanpur, Punjab, India Hxgr+r88, Meharbanpur, Punjab 143115, In Lat 31.577023° Long 74.990758° 23/09/2025 10:54 AM GMT +05:30</p>
16.	P-N Junction Diode Apparatus	The P–N junction diode apparatus is an experimental setup used to study the forward and reverse characteristics of a semiconductor diode.	9		 <p>Meharbanpur, Punjab, India Hxgr+r88, Meharbanpur, Punjab 143115, In Lat 31.576889° Long 74.990798° 23/09/2025 10:51 AM GMT +05:30</p>

17.	Zener Diode Voltage	It is widely used as a voltage regulator because it maintains a nearly constant voltage across its terminals when reverse-biased.	8		
18.	Digital Gauss meter	used to measure the magnetic field strength in units of Gauss (G) or Tesla (T). Unlike analog instruments, a digital Gauss meter provides a direct numerical display of the magnetic field, making measurements precise and easy to read.	2		
19.	Electromagnetic Power Supply	It is a device that provides a controlled and adjustable supply of electrical energy to electromagnetic devices like electromagnets, coils, and solenoids used in physics experiments and laboratories.	1		
20.	Sodium Vapor Lamp Transformer	A Sodium Vapor Lamp Transformer is a special electrical transformer used to operate high-pressure or low-pressure sodium vapor lamps.	8		

21.	LASER Power Supply	A Laser Power Supply is an electronic device that provides a stable and controlled electrical power to a laser tube or diode, enabling it to emit coherent light efficiently	2		
22.	Digital Mutimeter	A Digital Multimeter (DMM) is an electronic measuring instrument that can measure voltage (AC/DC), current (AC/DC), resistance, and often other parameters such as capacitance, frequency, temperature, or continuity.	2		



**Details of
Laboratory Equipment**

**Department of
Applied Sciences**


Name of the Laboratory: Language Lab

Picture of the Lab (Outside – showing the name plate)




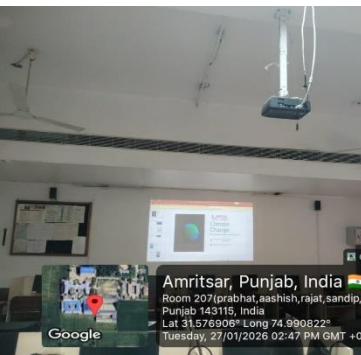


Picture of the Lab (Inside – showing a wider view of the lab)



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Details of the Laboratory Equipment's

S. N.	Name of Equipment	Description / Specification of the Equipment	Quantity	Normal Picture	Geotagged Picture
1	Computers	Lenovo Processor (AVC), 4GB RAM-DDRII, 500 GB Hard Disk + 250 SSD, Keyboard, Mouse, TFT-19	32		 <p>Amritsar, Punjab, India Hxqr+rfm Km Stone, Nh 3, Grand Trunk Road, Meharbanpur, Amritsar, Punjab 143115, India Lat 31.576764° Long 74.990688° Tuesday, 27/01/2026 12:21 PM GMT +05</p>
2	Projector	Dell	1		 <p>Amritsar, Punjab, India Room 207 (prabhat, aashish, rajat, sandip, sandip), Punjab 143115, India Lat 31.576908° Long 74.990832° Tuesday, 27/01/2026 02:47 PM GMT +05</p>