

Adarsh Mahila Mahavidyalaya, Bhiwani

Internal Quality Assurance Cell (IQAC)

Laboratory Audit Report (2020-2021)



About College



Established in 1970 and declared "Best College" by the government of Haryana, Adarsh Mahila Mahavidyalaya, Bhiwani has carved a prime niche for itself on the educational map of Haryana. The college has a distinctive proud history of being established by social reformers who were also dedicated to the cause of women's education. It has rendered yeoman's service to the cause of women upliftment and education in the area by imparting quality education to the girls for half a century now. The institution was established and nomenclature with the noble and elevating vision to create 'Adarsh' i.e ideal young women who combine the best of Old and New the traditional 'Sanskaras' and a modern outlook; and the institute has lived up to its name. The multifarious achievements of the college and its excellent performance in the fields of Academic, Co-curricular activities and Sports compel admiration.

Affiliated to C.B.L.U Bhiwani, providing education to around 3000 students, the college offers multi faculty U.G courses in Arts, Commerce and Science; PG courses and also professional courses like BCA, ASM, B.COM, B.Sc with Computers. The college campus combines the Greenery of Nature and Elegance of Infrastructure. It provides a very congenial and conducive atmosphere ideal for all round growth of the students. Sports grounds, open gym, large lawns, auditorium, hostel facilities, equipped library, pleasant canteen everything blends to create a beautiful

ambience and a platform for full growth of one's potentials and capabilities. The dedicated and highly qualified faculty and the enterprising college management consistently continue to put in their best efforts to take the college to even greater heights of all round excellence and glory.

Vision

Adarsh Mahila Mahavidyalaya, under the visionary leadership provided by our Governing Body is committed to establish a world class platform providing quality education to remove the darkness of ignorance from life of women and make them empowered and sensitized.

Mission

Mahavidyalaya strives for excellence through creation, dissemination and application of knowledge in consonance with the social needs for a brighter tomorrow.

Objectives of the Institution

Adarsh Mahila Mahavidyalaya is a unique institution which endeavors for overall personality development and career building of its students.

Some of its Objectives are:

- To enable the young generation to earn their livelihood in a dignified manner.
- To produce students of the highest caliber who become trendsetters in their respective professions.
- To develop synergy with others in the society.
- To provide a free and healthy atmosphere and equal opportunities so as to generate and motivate leaders.

Laboratory

Science educators have believed that the laboratory is an important means of instruction. Laboratory instruction was considered essential because it provided training in observation, supplied detailed information, and aroused pupils' interest.

Writing about laboratory teaching, McKeachie said:

Laboratory teaching assumes that first-hand experience in observation and manipulation of the materials of science is superior to other methods of developing understanding and appreciation. Laboratory training is also frequently used to develop skills necessary for more advanced study or research.

From the standpoint of theory, the activity of the student, the sensorimotor nature of the experience, and the individualization of laboratory instruction should contribute positively to learning. Information cannot usually be obtained, however, by direct experience as rapidly as it can from abstractions presented orally or in print. Thus, one would not expect laboratory teaching to have an advantage over other teaching methods in the amount of information retention, in ability to apply learning, or in actual skill in observation or manipulation of materials.

Five groups of objectives that may be achieved through the use of the laboratory in science classes:

1. Skills - manipulative, inquiry, investigative, organizational, communicative.
2. Concept - for example, hypothesis, theoretical model, taxonomic category.
3. Cognitive abilities - critical thinking, problem solving, application, analysis, synthesis.
4. Understanding the nature of Science - scientific enterprises, scientists and how they work, existence of a multiplicity of scientific methods,

interrelationships between science and technology and among the various disciplines of science.

5. Attitude - for example curiosity, interest, risk taking, objectives, precision, confidence, perseverance, satisfaction, responsibility, consensus, collaboration, and liking science.

Participating in laboratory experiments would help students learn methods of accurate observation and inductive reasoning. However, the focus on prescribing specific experiments and procedures, illustrated. limited the effectiveness of early laboratory education. In the rush to specify laboratory experiments, procedures, and equipment, little attention had been paid to how students might learn from these experiences.

Terms related in Lab inspection:

“Appropriate Hazard Warning” – Any words, pictures, symbols, or combination thereof appears on a label or other appropriate form of warning which convey the health and physical hazards, including the target organ effects of the chemical(s) in the container(s).

“Categories of Hazardous Chemicals” – A grouping of hazardous chemicals with similar properties.

“Label” – Any written, printed, or graphic material displayed on or affixed to containers of hazardous chemicals, and which includes the same name as on the Safety Data Sheet (SDS) or Material Safety Data Sheet (MSDS).

“Physical Hazard” – A chemical which is a combustible liquid, a compressed gas, explosive, flammable, an organic peroxide, an oxidizer, pyrophoric, unstable (reactive), or water-reactive.

“Stationary Process Container” – A tank, vat or other such container which holds different hazardous chemicals at different times.

“Personal Protective Equipment” – Protective equipment provided to an employee by the employer which provides a level of protection to chemicals to which an employee may be exposed that will be adequate to ensure their health and safety based on current industry standards.

Concept of Laboratory audit

The concept of quality is central to the delivery of laboratory services and this is achieved through the incorporation of quality systems, quality control and quality assurance in all aspects of laboratory practice. Essential to all aspects of laboratory results is to ensure that they are accurate, reliable and delivered in a timely fashion. To ensure that these requirements are in place and that they are consistently being met, audits should be regularly undertaken.



The aim of the audit is:

- To determine labs effectiveness and identify problem areas.
- Monitoring the effectiveness of the existing quality system.
- Correcting any deficiencies that are identified.
- Working toward continuous improvement.
- Planning and implementing an improved quality system.

During audits of a laboratory function, information is gathered about

- Suitability of processes and operating procedures.
- Staff competence and training.
- Reliability and accuracy of equipment.
- Suitability of the laboratory environment.
- The handling of chemicals and equipment.

Audits therefore enable the laboratory to understand how well it is performing when compared to a benchmark or standard. To be effective, laboratory auditing should report both non-conformances and corrective actions, and also to highlight areas of good practice so that other laboratories or departments can exchange information and review working practices.

The science laboratory inspection checklist has been developed to support each laboratory in building and maintaining a safety program that meets the expectations outlined in the Laboratory Safety Manual. The checklist has these sections:

- Good Laboratory Design
- Laboratory Personnel
- Instrumentation
- Staff Competency
- Lab Training

Audit in college laboratories is a process of review and assessment of laboratory performance, and its purpose should be to improve practical activity by enhancing laboratory performance and making better use of resources. The suggested conduct for an audit and the involvement of personnel are also reviewed. The concept of laboratory audit is central to the delivery of laboratory services and this is achieved through the incorporation of quality systems, quality control and quality assurance in all aspects of laboratory practice. The Laboratory standard consists of five major elements such as hazard identification, chemical hygiene plan, information and training, exposure monitoring and medical consultation and examinations. To ensure that these requirements are in place and that they are consistently being met, audits should be regularly undertaken. A laboratory audit verifies that the laboratory has quality systems in place, follows good laboratory practices and generates data of integrity and quality. Audits of the laboratory will be performed at predefined time intervals, assessing whether the laboratory complies with the defined quality system processes and this can involve procedural or results-based assessment criteria.

The success of the audit is based on adequate preparation, precise performance, well documented and insightful reporting and productive follow-up. Audits are used to identify problems in the laboratory, in order to improve processes and procedures. An outcome of assessment is finding root causes of problems and taking corrective actions. Quality audits play an essential role in the quality management system. Laboratories tend to be organized along specific disciplines.

Objectives of Laboratory Audit:

The audit focused on the following areas:

- 1 Effectively manages the handling of toxic chemicals, glassware and other precious Instruments.
- 2 Manage the waste disposal properly.

3 Implements all of the safety controls.

4 Proper training to laboratory support staff.

Methodology:

To accomplish the audit objective,

1. Held discussions with key Department and laboratory personnel.
2. Review applicable laws, regulations and Department policies related to materials safety.
3. Review safety policies and procedures in effect at the Department laboratories where materials were handled.
4. Observing laboratory inspections performing limited evaluating of supporting documents.
5. Appropriate training is provided to all covered employees.

Laboratory Inspection Criteria:

Laboratory Door to Signs:

1. Do all entrances to the laboratory space have an appropriate caution sign indicating the hazards present in the area?
2. Are appropriate hazard labels on the laboratory door sign?

Documentation:

1. Warning signs and emergency contact information up to date and posted on doors.
2. Laboratory SOPs are available.

Personal protective equipment:

1. Disposable gloves available, used and disposed of properly.
2. Lab coats are available and worn.

Laboratory Housekeeping:

1. No food, drink, cosmetics, lotions, none work related plants or animals.
2. Broken glass procedures in place.
3. Soap and towel readily available and used for hand washing.
4. Good housekeeping practices are being conducted.

Chemical Storage and Handling:

1. All chemicals are labeled properly.
2. Chemicals are stored according to compatibility.
3. Containers show integrity.
4. Storage areas are labeled.

Compressed Gases:

1. Cylinders are secured properly.

Flammables:

1. Flammables are kept away from heat, ignition, flames and stored in appropriate fridges/freezers or cabinets.

Biological Storage and Handling:

1. Biohazard signage on equipment and materials as appropriate.
2. Export controlled agents and toxins are locked.
3. Biological materials are labeled properly.

Waste Management:

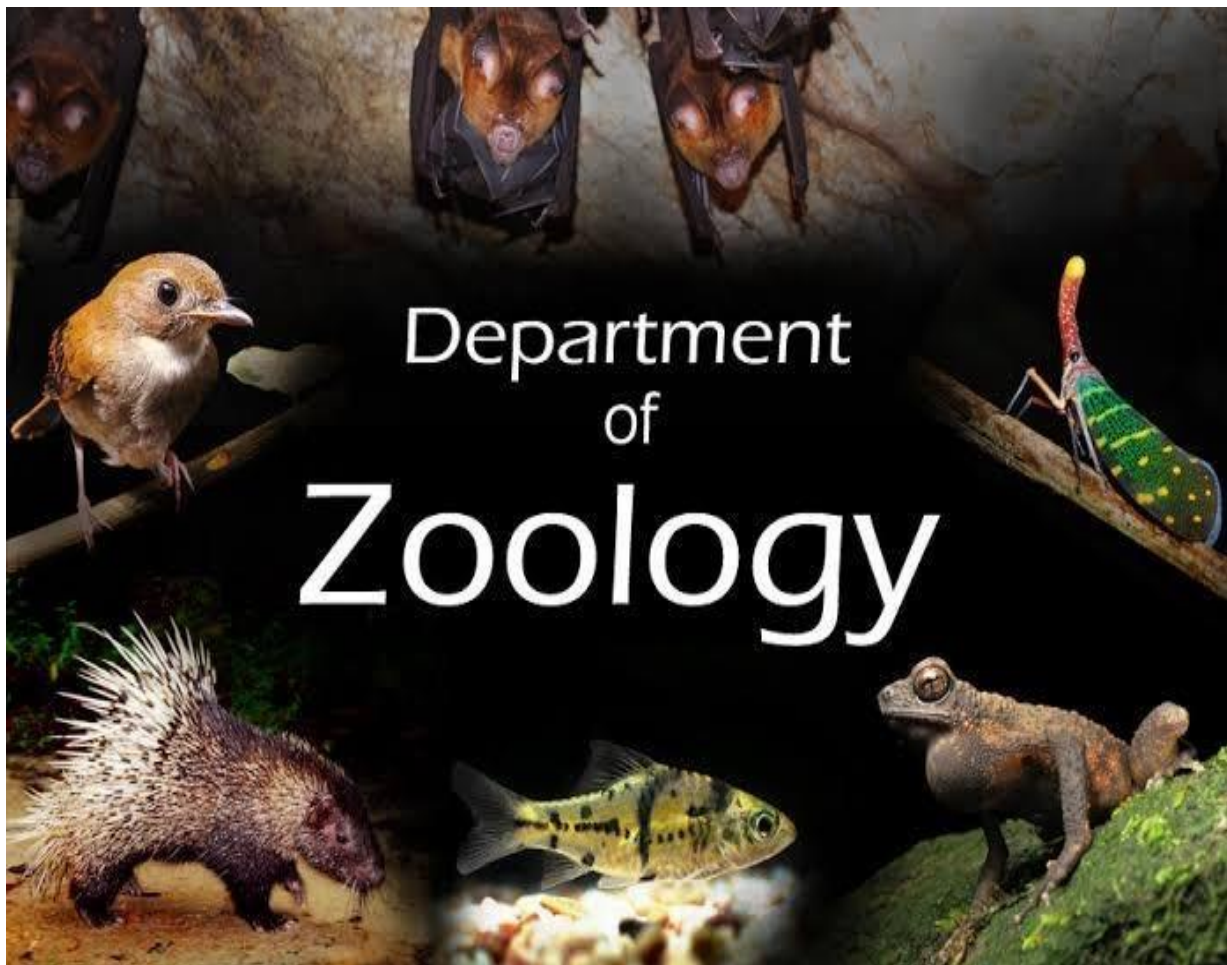
1. Is the chemical waste stored properly?

Fire extinguishers:

1. Is an appropriate fire extinguisher available and easy to access?
2. Has the extinguisher been inspected from time to time?

Department of Zoology

Laboratory Audit



History:

- Year of Establishments: 1987
- Name of programmes Offered: B.Sc
- Pattern: UG Semester

Vision:

The department promotes the discovery and broad knowledge about the biology of animals, evolution and their environments.

Mission:

- To provide transformative, holistic and value-based immersive learning experiences to students.
- To sensitize human society for animal welfare, conservation and protection of biodiversity.
- To equip students with adequate practical skills that will enable them to function productively in society.

Scope and importance:

Zoology is one of the broad and conventional branches of biology that is chosen to study in the field of science. Zoology is the study of the animal kingdom that involves the anatomy, classification, physiology, characteristics, and evolution of all living and extinct animals. Hence, there is a lot of scope in the field of zoology around the globe.

Professional options after seeking graduation, post-graduation, and a doctorate in zoology are varied. Candidates get openings in various government departments, environmental agencies, universities, colleges, biotechnological, pharmaceutical, environmental, or ecological fields.

Zoology makes a huge impact on our world through the scientific study of the evolution, anatomy, physiology, behavior, habitats, and health of animals and

humans. It includes diverse approaches such as electron microscopy, molecular genetics, and field ecology.

By studying animals we develop a better understanding of how we, ourselves, function and interact with the world around us. The search for answers to our questions puts us in the incredible position of being able to affect change, empower better choices, and develop solutions for a stronger, healthier world.

Facility:

1. Practical Laboratory
2. Staff Room
3. Fridge
4. Computer

Faculty Members:

S.No	Name of Teachers	Designation	Qualification	Teaching experience
1	Mrs. Nirmal Malik	Assistant Professor (HOD)	M.Sc Zoology, M.Phill	22 years
2	Ms. Neha	Assistant Professor	M.Sc Zoology, NET, GATE	Nil
3	Ms. Vipula	Assistant Professor	M.Sc Zoology, GATE	Nil

Laboratory Equipments:

Sr.No.	Name of Article	Quantity
1	Teacher's Microscope	1
2	Senior Student Microscope	30
3	Dissecting Microscope	22
4	Slide Box Plastic	1
	100 slides wooden box	1
	12 slides box	1
5	Slide Cabinet	1
6	Staining racks of teakwood	27
7	Dissection trays 10"*12"	48
8	Dissection box	1
9	Weight box	1
10	Physical balance	1
11	Electrical balance	1
12	Refrigerator (LG)	1
13	Distillation Plant (4ltr/hr)	1
14	Haemocytometer (Imported)	5
15	Haemoglobinometer	14
16	Charts (Raxine)	19
17	Hands lens 3"	11
18	Cork Borer	1
19	Pestel and mortar	2
20	Spirit lamp	25
21	Water bath	1
22	Stop Watch	2
23	Incubator	1
24	Kymograph	1
25	Muscle Chamber	1
26	Smoking burner	1

27	Hot Plate	2
28	Dissection Board (Wooden)	10
29	Over Head Projector	1
30	Projection microscope with TV scanner	1
31	a) Western TV	1
	b) Stabilizer(0.5kVA)	1
32	Glass Cutter	2
33	Hand Net	1
34	Pathological microscope's	10
	a) Eye Piece (10X)	10
	b) Objective lens (10X)	
35	Projection slides (2" *2")	100
36	Test tube holder	34
37	Test tube stand	
	a) Aluminium	12
	b) Polythene	12
38	Pipette stand (Plastic)	12
39	Burette Stand with Clamp	10
40	Tripod Stand (Steel)	10
41	Skeletons	8
42	Human Skeleton	
	a) Articulated	1
	b) Disarticulated	1

Specimen

Phylum : Porifera

Sr.No	Specimen	Quantity
1	Sycon	2
2	Grantia	1
3	Hyalonema	1
4	Euspongia	1
5	Spongilla	1
6	Euplectella	1

Phylum : Coelenterata

Sr.No	Specimen	Quantity
1	Porpita	1
2	Aurelia	2
3	Rshizostoma	1
4	Favia	1
5	Tubipora	1
6	Alcyonium	1
7	Metridium	2
8	Zoanthus	2
9	Millipora	1
10	Madrepora	1
11	Valella	1
12	Physalia	1
13	Astrea	1
14	Fungia	1
15	Sea anemone	1

Phylum : Platyhelminthes

Sr.No	Specimen	Quantity
1	Dugesia	1
2	Fasciola	1
3	Taenia	1
4	Echinococcus	1

Phylum : Aschelminthes

Sr.No	Specimen	Quantity
1	Ascaris	2
2	Trichinella	1
3	Ancylostoma	1
4	Melidogyne	1

Phylum : Annelida

Sr.No	Specimen	Quantity
1	Pheretima	1
2	Heteronereis	1
3	Polynoe	1
4	Aphrodite	1
5	Chaetopterus	1
6	Arenicola	1
7	Tubifex	1

Phylum : Arthropoda

Sr.No	Specimen	Quantity
1	Peripatus	1
2	Palaemon	2
3	Lobster	1
4	Lepas	1
5	Sacculina	2
6	Eupagurus	2
7	Cancer	1
8	Balanus	1
9	Periplaneta	1
10	Cyclops	1
11	Schistocera (locust)	1
12	Grasshopper	1
13	Gryllus	1

14	Praying mantis	3
15	Cicada	1
16	Forficula (earwig)	2
17	Apies Idica	1
18	Polistes (Wasp)	1
19	Bombyx mori	1
20	Millipede	2
21	Centipede	2
22	Scorpion	1
23	Spider, fish parasite	3
24	Limulux (King Crab)	3
25	Cimex	1
26	Lepisma	1

ZOOLOGY LABORATORY – MAJOR EQUIPMENTS



Laboratory Audit and Check List

Sr.No	Topic	Yes	No	NA
A	General Work And Environment			
1	Work Area and Design	Yes		
2	Lab Mannual	Yes		
3	Means available to reach items stored at shoulder level.			NA
4	Emergency Action Plan	Yes		
5	Material Safety Data Sheets (MSDS) readily Accessible	Yes		
6	Chemical Hygiene Plan available in Lab	Yes		
7	Aprons/ Protective measures available		No	
8	Ice Making machines posted not for Human Consumption		No	
B	Exit			
1	Required Visible Signs	Yes		
2	Path free from obstacle	Yes		
3	Alternate Exit Available	Yes		
C	Emergency Planning			
1	Fire extinguisher mounted near doorway	Yes		
2	Fire Extinguisher fully charged	Yes		
3	Fire Extinguisher tamper indicator in place	Yes		
4	Fire Extinguisher inspected	Yes		
5	Shower		No	
6	First aid box	Yes		
7	Emergency gas and Electricity shut-off		No	
D	Chemical Storage			

1	Refrigeration units for Chemical Storage labeled No Food		No	
2	Refrigeration units for food labeled food only	Yes		
3	Chemical Storage Cabinets properly labeled	Yes		
4	No Volatile Chemical Storage in unventilated environmental Chambers	Yes		
5	Containers clearly labeled with Chemical name.	Yes		
6	Storage strictly limited in actively used fume hoods	Yes		
7	Storage strictly limited in actively used fume hoods	yes		
8	Materials with shelf lives dated and disposed of per supplier's recommendations	Yes		
9	Refrigeration Units approved for flammables storage			NA
10	Flammable liquids not stored near hotplates or other ignition sources	Yes		
E	Waste Disposal			
1	Containers were kept sealed except during transfer	Yes		
2	Containers labeled with the words Hazardous Waste		No	
3	Separate disposal containers available for broken glass	Yes		
4	Biological Waste disposal after sterilization	Yes		
F	Ventilation			

1	Local Exhaust	Yes		
2	Fumes hoods used		No	
G	Security			
1	Doors to the lab operate, close and lock properly	Yes		
2	Windows operate, close and lock properly	Yes		
H	Training / Awareness			
1	Workers have attended Laboratory Safety Training	Yes		
2	Workers have attended Emergency Action Plan Training	Yes		
3	Workers have attended Laboratory Security Training		No	
I	Do Laboratory Workers know			
1	What to do in the event of an emergency, such as fire, injury, including evacuation routes	yes		
2	What an MSDS is and where to find them and other safety information		No	
3	What type of personal protective equipment to use and when to use it	Yes		
4	What are the most hazardous materials you use and what precautions to take	Yes		
5	What to do with Chemical waste	Yes		
6	How to Clean up Chemical spills	Yes		

Department of Botany Laboratory Audit



History:

Year of Establishment: 1987

Name of Programmes Offered: UG: B.Sc

System: Semester and CBCS

Vision:

To discover, maintain and transmit knowledge concerning basic plant biology and provide leadership in the biological science.

Mission:

To apply conventional as well as non-conventional tools to understand plant process, development of human resource with hands on experience in the frontier areas of Plant Sciences.

Scope and Importance:

Plants are an integral part of human life. They are used in various aspects of day to day lives. Botany studies the characteristics and uses of these plants and hence are very important.

The importance of Botany can be understood by the following points:

1. Botany deals with the study of different kinds of plants, its uses and characteristics to influence the fields of science, medicine and cosmetics.
2. Botany is the key to the development of bio-fuels such as biomass and methane gas that are used as alternatives to fossil fuels.
3. Botany is important in the area of economic productivity because it is involved in the study of crops and ideal growing techniques that help farmers increase crop yield.
4. The study of plants is also important in environment protection. The Botanists list the different types of plants present on earth and can sense when the plant populations start declining.

Facility:

1. Practical Laboratory
2. Staff Room
3. Fridge
4. Computer

Faculty Members:

Sr. No	Name of Teacher	Designation	Qualification	Teaching Experience
1	Ms. Versha	Assistant Professor	M.Sc Botany, NETJRF	1
2	Ms. Sonu	Assistant Professor	M.Sc Botany PG Diploma in Horticulure	NIL
3	Ms. Megha	Assistant Professor	M.Sc Botany, GATE	NIL
4	Ms. Manisha	Assistant Professor	M.Sc Botany, B.Ed, CTET	NIL

Laboratory Equipments:

Sr.No.	Name of Apparatus	Quantity
1	Arc Auxanometer	1
2	Balance	1
3	Camera lucida	1
4	Centrifugal Machine	1
5	Calorimeter E-18 Filter digital	1
6	Cork borer	2
7	Desktop HP	1

8	Dissecting Microscope	20
9	Dropping Bottle	212
10	Boiling Flask flat bottom	Nil
11	Ganong's Light screen	2
12	Germination box	3
13	Heating Mantle	1
14	Humidity Chamber fitted electronic	1
15	High Speed Ultracentrifuge Machine	1
16	Iron stand	10
17	Inoculation Needle/Inoculation Chamber	10+1
18	Clinostat	6
19	Laminar flow	1
20	Marker	Nil
21	Projection Microscope, Microscope Binocular make microskill Tissue culture	1
22	Magnetic stirrer	1
23	Hot air Oven/Universal Model	1
24	Photographic Chamber	1
25	Plant pressure	4
26	Pitcher plant	Nil
27	Root Pressure Apparatus	10
28	Rexin Chart	29
29	Refrigerator	1
30	Scale	10 pcs.
31	Suction Pump with Automizer(Borosil)	12
32	Seed Germination	1
33	Spirit Lamp	22
34	Spatula	10
35	Soil and water testing kit	1
36	Spectrophotometer	1

37	Test tube stand(Plastic)	24
38	Tripod Stand	20
39	Transparency Projection kit	1
40	Tray without Paraffin wax Enamelled	10
41	Wilmott's Bubbler	9
42	Weighing balance	1
43	Wooden rack	12
44	Washing bottle	60
45	Autoclave	1
46	Plastic Embedding of Specimen	13
47	Wire guaze	12

Permanent slides

Sr. No.	Name of Specimen	Quantity
1	Algae Slides	
	1. Chlamydomonas W.M.	3
	2. Vaucheria Vegetative W.M.	1
	Vaucheria Reproductive W.M.	2
	3. Chara w.m	1
	Chara reproductive w.m	2
	Chara sex organs	1
	4. Ulothrix w.m	1
	Ulothrix reproductive w.m	1
	5. Ectocarpus unilocular w.m	3
	Ectocarpus vegetative w.m	1
	Ectocarpus reproductive w.m	1
	Ectocarpus Pluto w.m	3
	6. Nostoc veg. W.m	2
	Nostoc rep. w.m	1
	7. Sargassum thallus t.s.	1
	Sargassum female V.S	1
	Sargassum axis T.S	1

8. Oedogonium dwarf male w.m	1
Oedogonium veg.	1
Oedogonium holdfast w.m	1
Oedogonium oogonial w.m	1
9. Volvox Daughter colonies w.m	1
Volvox antheridial w.m	2
Volvox W.m	2
10. Polysiphonia veg. w.m	2
Polysiphonia cystocarp W.m	2
Polysiphonia Tetrasporic w.m	2
11. Fucus male conceptacle w.m	1
2 Bacteria slides	
1. Bacteria Bacillus	3
2. Bacteria spirillum	3
3. Bacteria coccus	3
4. Vibrio comma Bacteria	1
3 Pteridophytes slides	
1. Equisetum cone L.S	2
Equisetum cone T.s	2
Equisetum stem t.s	2
Equisetum rhizome T.s	1
2. Marsilia rhizome t.s	1
Marsilia sporocarp t.s	1
Marsilia root t.s	1
Marsilia leaf t.s	1
3. Psilotum stem	1
4. Pteris :T.s. of rhizome	1
Pteris: Fern leaf with sori	2
Pteris: Petiole t.s.	1
Pteris: T.S. of Rachis	1
5. Selaginella plant body	2

Selaginella stem t.s.	3
Selaginella rhizophore t.s.	1
Selaginella root t.s.	2
4 Bryophytes	
1. Marchantia with sporophyte v.s.	4
Marchantia thallus t.s.	2
Marchantia antheridia v.s.	2
Marchantia archegonia v.s. German tech.	2
Marchantia with Gemma cup	3
2. Anthoceros	
Anthoceros sporophyte t.s.	1
Anthoceros thallus v.s. antheridia	1
3. Riccia archegonia	1
Riccia antheridia	1
Riccia thallus v.s.	1
4. Moss archegonia v.s.	2
Moss antheridia v.s.	3
Moss peristome	1
Moss plant w.m(Histology)	1
Moss protonema	1
5. Funaria capsule t.s.	1
Funaria moss archegonia	2
Moss capsule t.s.	1
Moss leaf	1
5 Lichens	
Fruticose Lichen thallus t.s.	1
Crustose Lichen thallus T.S.	1
Foliose Lichen thallus T.s.	1
Lichen Apothecium V.s.	1
Lichen T.S.	2
6 Fungi	
1. Colletotrichum w.m	1
2. Agaricus gills v.s.	1

Agaricus gills L.s.	1
Agaricus pileus L.s.	1
Agaricus pileus T.S.	1
Agaricus pileus V.S.	2
Agaricus button stage V.S.	1
3.Rhizopus cystocarp	1
Rhizopus sexual w.m	1
Rhizopus sporangia	1
4.Puccinia telitiospore v.s.	1
Puccinia Aecidial	1
Puccinia Aecidia on Barberry leaf	1
Puccinia uredio	1
Puccinia Aecidia leaf T.S.	1
5.Phytophthora Host leaf T.S.	3
Phytophthora w.m.	2
Phytophthora sex organs	1
6.Mucor vegetative w.m.	2
Mucor zygosporangia w.m.	1
Mucor sporangia w.m.	3
7. Fungi yeast budding	1
8.Cercospora w.m.	1
9. Penicillium w.m.	3
Penicillium vegetative	1
Penicillium conidia w.m.	2
7 Gymnosperms	
1. Cycas Female cone v.s.	2
Cycas leaflet T.s.	2
Cycas Female cone	2
Cycas Rachis t.s.	2
Cycas T.S. of old roots	3
Cycas Normal root T.S.	1
Cycas Corraloid root T.S.	3
Cycas microsporophyll t.s.	2
2.Pinus	

Pinus male cone	3
Pinus female cone	1
Pinus stem T.s.	2
Pinus stem T.L.S.	1
Pinus stem R.L.S.	1
Pinus wood L.S.	1
Pinus root T.s.	1
Pinus leaf T.S. of Needle	1
Pinus seed V.S.	1
3.Ephedra cone male T.S.	2
Ephedra Root t.s.	1
Ephedra stem t.s.	2
Ephedra female cone L.S.	2
8 Mitosis and Meiosis slides	
1. Mitosis	1
Prophase	1
Metaphase	1
Anaphase	
Telophase	1
Interphase(Mitosis)	1
2. Meiosis-1	
Prophase -1	1
Leptotene	1
Zygotene	1
Pachytene	
Diplojene	1
Diakinesis	1
Metaphase-1	1
Anaphase-1	1
Telophase-1	1
3. Meiosis-2	
Anaphase -2	1
Metaphase-2	1
Telophase-2	1

4.Meiosis- Resting nucleus	1
9 Tissues slides	
Aerenchyma	2
Xylem tissue (Angiosperms)	2
Phloem tissue(Angiosperms)	2
Angiosperms:Collenchyma tissue	2
Angiosperms:Parenchyma tissue	2
Angiosperms:Sclerenchyma tissue	2
Onion root tip L.S.	2
Onion root tip V.S.	1
Onion stem tip L.S.	1
Leaf Stomata w.m.	1
Calotropis stem T.S.	1
Embryology:Capsella quadrant stage L.S.	1
Capsella globular proembryo	1
Capsella mature embryo	1
Capsella cotyledons differentiating	1
Capsella octant stage	1
Capsella bending cotyledons	1
Capsella precotyledons stage	1
T.S. of anther with pollen grains	1
Anther T.S.	1
T.S. of anther showing mass of parenchymatous cell	1
T.S. of anther showing Archesporial cell	1
Monocot Root t.s.	1
Monocot leaf T.s.	2
Dicot root t.s.	2
Stem apex L.s.	1
Dicot leaf t.s.	2
Monocot stem T.s.	1
Maize Root t.s.	1

Stone cells T.s.	1
Dicot stem T.s.	2
Dracaena stem T.s.	1
Boerhaavia stem T.s.	1
Nerium Leaf T.s.	1
Vallisneria stem t.s.	1
Hydrilla root t.s.	1
Trapa stem t.s.	1
Hydrilla stem apex	1
Acyranthus stem	1
Casurina stem T.S.	1
Begonia stem t.s.	1

BOTANY LABORATORY – MAJOR EQUIPMENTS:



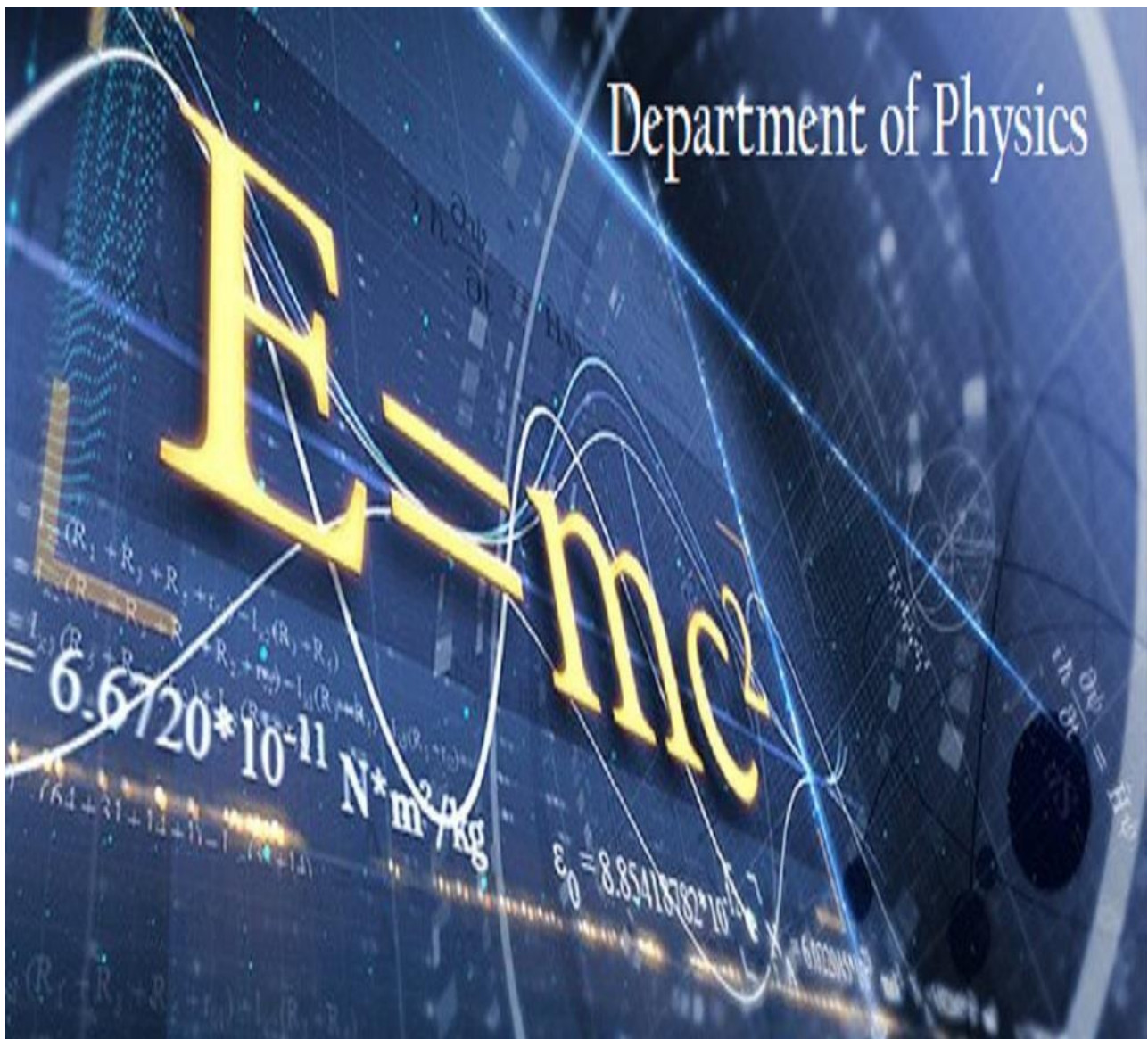
Laboratory Audit and Check List:

Sr.No	Topic	Yes	No	NA
A	General work Environment			
1	Work Area and Design	Yes		
2	Means available to reach items stored at shoulder level			NA
3	Adequate Free Space	Yes		
B	Exit			
1	Required Visible Signs	Yes		
2	Path free from obstacles	Yes		
3	Alternate Exit Available	Yes		
C	Emergency Planning			
1	Fire Extinguisher mounted near doorway	Yes		
2	Fire Extinguisher Fully Charged	Yes		
3	First Aid Box	Yes		
4	Emergency gas and Electricity shut-off	Yes		
D	Chemical Storage			
1	Refrigeration units for Chemical Storage labeled No Food		No	
2	No Volatile Chemical storage in unventilated environment chambers.		No	
3	Containers clearly labeled with chemical name	Yes		
E	Waste Disposal			
1	Containers kept sealed except during transfer	Yes		
2	Separate disposal containers available fir broken glass	Yes		
3	Biological Waste Disposal alter	Yes		
F	Ventilation			
1	Proper Ventilation	Yes		
2	Working area properly illuminated	Yes		

G	Security			
1	Doors to the lab operate, close and lock properly.	Yes		
2	Windows Operate, Close and lock properly	Yes		
H	Training/ Awareness			
1	Workers have attended Laboratory Safety Training	Yes		
I	Do Laboratory workers Know			
1	What to do in the event of Emergency, such as fire, injury, including evacuation routes.	Yes		
2	How to clean up Chemicals spills	Yes		

Department of Physics

Laboratory Audit



History:

Year of Establishment: 1987

Name of Programmes Offered: UG: B.Sc

System: Semester and CBCS

Vision:

To establish a platform for the dissemination and creation of knowledge through teaching and research in Physics at various levels.

Mission:

To set high standards of comprehensive education by developing the intellectual strength of students and guiding them towards Scientific and technical excellence.

Scope and Importance:

Physics is the study of energy, matter, and their interactions. It's a very broad field because it is concerned with matter and energy at all levels—from the most fundamental particles of matter to the entire universe. Some people would even argue that physics is the study of everything! Important concepts in physics include motion, forces such as magnetism and gravity, and forms of energy such as light, sound, and electrical energy.

Physics helps us to understand the world around us, find quantitative physical laws for everything, bring a broad perspective to any problem and satisfy our curiosity. Physics is one of the oldest and most complex sciences because it is related to the rest of the other sciences. Physics studies everything that takes place in the universe, including particles, natural phenomena and energy, and their relationship to each other. Physics is characterized by precision, which motivates

scientists always to invent new tools and methods that take care of the accuracy and results of physical experiments.

There are many branches of physics, the most important of which are classical physics, modern physics, nuclear physics, atomic physics, molecular physics, biophysics, mechanical physics (mechanics), geophysics, astrophysics, acoustics, and each of these branches includes its own physical definitions and laws.

Facility:

- Practical Laboratory – 02
- Computer – 5
- Projector and Screen – 01
- Vislizer –OHP – 01
- Staff Room – 01
- Electric Dias-01
- Internet Facility -01
- Window AC – 01
- DVR and Stand – 01

Faculty Members:

Sr.No.	Name of the Teacher	Designation	Qualification	Experience
1	Mrs. Neelam Gupta	Associate Professor	M.Sc Physics (Gold Medalist from Rhotak)	34
2	Dr. Nisha Rani	Assistant Professor	M.Sc Physics, M.phil, PHd	13
3	Dr. Indu Vashistha	Assistant Professor	M.Sc Physics, PHd	7
4	Dr. Ankita Guota	Assistant Professor	M.Sc Physics, PHd	Nil
5	Ms. Sujata Soperna	Assistant Professor	M.Sc Physics (Gold Medalist from CBLU, Bhiwani)	Nil

Laboratory Equipments:

Sr. no	Items	Qty
1	Tooision Pendulum	8
2	Measuring Tape-15 mbr.	2
3	Step down Transfarmar for sonomeper	4
4	Benoling of Beam app.	2
5	Searls rigidty app with stand	2
6	Kiscosity by capillary method	4
7	Photo-Voltic cell app	4
8	Prism assembly complet set	5
9	Micro meter Screw guage	12
10	Reading Telescope with stand	10
11	Wienghing Balance(Top pen)	1
12	Needle stand	15
13	Kniferdge for Bar Pendulum	7
14	Microscope	10
15	Sextant with stand	6
16	Polari meter, hafe shade	2
17	Newton Ring app.	4
18	Spirit level	5
19	Photo meter	2
20	Transfarmer for sodium camp,	2
21	Hall effect comput set	2
22	e/m by phomsoned method	4

23	Four prob method app.	3
24	Laser diode.5mm	2
25	Greating Holder for caser	2
26	Diode cheractor stictic	3
27	Semi conductor	5
28	L.C.R Impidance of A.C circuit	2
29	High Resistance by subtituet method	7
30	Transister character stictics-C.B	6
31	Study of L.C.R series & parllel	1
32	Voltage double & Tripler circuit	4
33	R.C Coupled amplifier	8
34	Standy of Hartly oscillator	6
35	Battery eliminator	5
36	Transformer	3
37	Am meter(DC) (0-100ma)(0-100ma)	2
38	Spectrometer	10
39	Ultra sonic wave by grang for spectore meter	1
40	Common base Amplifire	3
41	Common emeter Amplifire	3
42	Bio-Prism only (50x40mm)	
43	Wire mount for diff raction purpose	3
44	Varbnier caliper	3
45	Screw gugge	7
46	Sphrameber	9
47	Hafe meter rods	3
48	Weight Box (100gm)	3

49	Convex lance	7
50	Plumb lines Brass	2
51	meter Rods(Scale)	6
52	Slotted wait Brass	6
53	Resistance Box, 5000 r	7
54	G. clamps	12
55	Sloted wait 1/2 kg	8
56	Magnet 1/3	6
57	one way key	10
58	Rising table (Surface tension)	3
59	Table Balance	1
60	DC. Galvne meter (30-0-30)	10
61	Iron stand	14
62	Sonometer theek wood, with stand wire	4
63	Sextand stand	1
64	More well needles	5
65	optical bench double brass pipe	4
66	Resistance box 1 to 100r	3
67	Fly wheel	4
68	Nodal slide Assambly without	2
69	Optical banch	
70	Meles app. Set	3
71	Dc an meter 100mm.50ma	1
72	Series and Parlled resorance Circuits	2
73	L.B photo metre	6
74	Solar cell	7
75	Corona ring app.	2
76	Micro am meter dc(0-200 ua, 200nm)	1

77	Volt metre DC (0-30v) Ac vo-20 (0-10v)	2
78	C.R.O connections	1
79	Ultra sonic diffraction Speetrameter per velocity	2
80	B/H curil app.	3
81	Laptop	1
82	Caramic steel writing cum Projection Board with stand	1
83	PNFU board lite software	1
84	Visualizer	1
85	Thermometer 110x1C	2
86	Jagger,s app.	6
87	White Plate with slits dream	1
88	Eye pic	10
89	Mercury lamp.	4
90	Sodium lamp.	3

Photo Gallery:



Laboratory Audit and Check List:

Sr.No	Topic	Yes	No	NA
A	General Work And Environment			
1	Work Area and Design	Yes		
2	Lab Manual	Yes		
3	Means available to reach items stored at shoulder level.	Yes		
4	Emergency Action Plan	Yes		
5	Material Safety Data Sheets	Yes		

	(MSDS) readily Accessible			
6	Chemical Hygiene Plan available in Lab	Yes		
7	Aprons/ Protective measures available		No	
B	Exit			
1	Required Visible Signs	Yes		
2	Path free from obstacles	Yes		
C	Emergency Planning			
1	Fire Extinguisher mounted near doorway	Yes		
2	First Aid Box	Yes		
3	Emergency gas and Electricity shut-off	Yes		
D	Waste Disposal			
1	Containers kept sealed except during transfer	Yes		
2	Containers labeled with the words Hazardous Waste		No	
3	Separate disposal containers available fir broken glass	Yes		
E	Ventilation			
1	Local Exhaust	Yes		
F	Security			
1	Doors to the lab operate, close and lock properly	Yes		
2	Windows operate, close and lock properly	Yes		
G	Training/ Awareness			
1	Workers have attended Laboratory Safety Training	Yes		
2	Workers have attended Emergency Action Plan Training	Yes		

3	Workers have attended Laboratory Security Training	Yes		
H	Do Laboratory workers know			
1	What to do in the event of an emergency, such as fire, injury, including evacuation routes.	Yes		
2	What an MSDS is and where to find them and other safety information		No	
3	What type of personal protective equipment to use and when to use it	Yes		
4	What are the most hazardous materials you use and what precautions to take	Yes		

Department of Chemistry

Laboratory Audit



History

- Year of Establishments: 1987
- Name of Programmes Offered: UG: B.Sc
- Pattern: UG –Semester & CBCS

Vision:

To build foundation for excellence and spur development of the Institution as a premier Institution, by igniting and nurturing enthusiasm, interests and passion, in the study of chemistry, in professional courses, as a part of curricula

Mission:

1. To create and maintain the programs of excellence in the areas of research, education and public outreach.
2. To promote, inspire and nurture the fundamentals of chemistry through UG courses offered for the basic sciences, applied sciences students.
3. To offer research projects with high emphasis on concept-theory-practical training to build up research interest for the transformation of budding chemists into productive scientists, excellent teachers, entrepreneurs and innovative independent researchers.

Scope and Importance:

It is determined by the extent up to which properties, structures and application of different matters are investigated for learning. New thoughts are sought day by day and the field of learning chemistry is expanded. Being the scope vast and diverse, chemistry is studied by classifying it into different branches as:

- ⇒ Physical Chemistry
- ⇒ Inorganic Chemistry
- ⇒ Organic Chemistry
- ⇒ Biochemistry
- ⇒ Environmental Chemistry

⇒ Industrial and applied Chemistry

⇒ Analytical Chemistry, etc.

* Importance of chemistry

Life is made of chemicals and without chemicals we can't breathe, eat and show activity in society. It means to say chemistry has contributed much to improve the life of human beings. In fact science shapes life, it has offered services through:

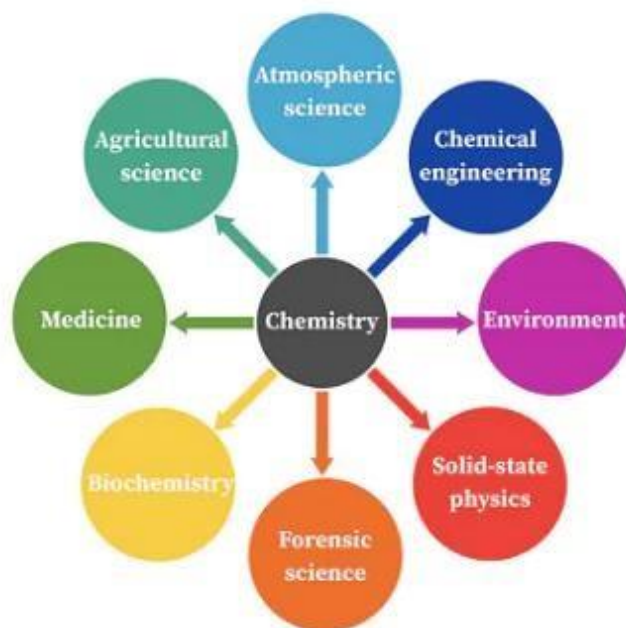
⇒ production of many commodities such as papers, glass, cements, oils, etc.

⇒ synthesis of camphor, cocaine, plant pigments and red coloring matter of blood, etc.

⇒ development of other sciences such as physiology, geology and agriculture.

⇒ examination of crimes and frauds and limiting improper exploitation of chemical discoveries.

⇒ invention and production of medicines, high explosives, rocket fuels, poison gases. The science of chemistry goes a great way to build a sound national economy by proper utilization of natural resources of a country which now form the integral parts of modern life.



Facility:

1. Practical Laboratory
2. Staff Room
3. Fridge
4. Computer

Faculty Members:

S.No	Name of Teacher	Designation	Qualification	Experience
1	Mrs. Rachna Arora	Associate Professor	M.Sc M.Phil	33
2	Mrs. Vinita Batra	Associate Professor	M.Sc	30
3	Dr. Ritika Chaudhary	Assistant Professor	M.Sc, Ph.d	6
4	Mrs. Vidhushi	Assistant Professor	M.Sc, PhD (Pursing)	5
5	Ms. Seema	Assistant Professor	M.Sc, Net	2
6	Ms. Pooja Sharma	Assistant Professor	M.Sc	Nil

Laboratory Equipments:

List of Chemicals:

Sr.No	Chemicals	Quantity
1	Aluminium Chloride Ammonium	500 g
2	Thiocyanate	2x500g
3	Aluminium nitrate	500g
4	Ammonium Nitrate	2x500g

5	Aluminium sulphate	500g
6	Ammonium acetate	2x500g
7	Ammonium iodide	100 g
8	Ammonium bromide	500g
	Diammonium hydrogen	
9	phosphate	2x500g
10	Ammonium molybdate	100g
11	Ammonium sulphate	500g
12	Ammonia liquor	3x2.5 litre
13	Ammonium carbonate	500x250g
14	Ammonium chloride	500gx250g
15	Ammonium oxalate	250g
16	Antimony trioxide	250g
	Ammonium	
17	thiosulphate	1b.g
18	Alizarine	25g
19	Acetic acid	3x2.5 litre
20	Acetone	2x2.5 litre
21	Activated charcoal	2x500g
22	Aniline	500 ml
23	Acetanilide	500g
24	Acetanilide	500g
25	Ammonium persulphate	2x5g
26	Amyl alcohol	2x500ml
27	Aspirin	500g
28	Aluminium oxide	500g
29	L-Alanine	Nil
30	D-Alanine	25g
31	Benzyl chloride	500ml
32	Barium chloride	2x500g
33	n-butanol	3x500ml
34	Barium nitrate	500g
35	Barium carbonate	500x250g
36	Bleaching Powder	500g
37	Benzyl alcohol	3x500ml

	S-Benzyliso thiouronium	
38	chloride	4x25g+100g
39	Blue litness solution	Nil
40	Benzene	2x2.5 litre
41	Bromine liguid	300ml
42	Benzoil aid	2x500g
43	Benomide	2x500g
44	Bromoform	2x250ml
45	Benzalohyde	2x500ml
46	Benzotl cholomide	500x250ml
47	Bismuth carbonate	4x100g
48	Benzophenone	500x1250g
49	Berium sulphate	500x1250g
50	Barfoed reagent	4x125ml
51	Bendicts reagent	500x250ml
52	Benzanilide	100g
53	D. Bromoacctanilide	3x100g
54	Camphor	400g
55	Chlorosenzene	500ml
56	Calcium carbonate	500x250g
57	Calcium oxide	5X500g
58	Calcium nitrate	500g
59	Calcium chloride	500g
60	Calcium idic	500g
61	Cadmium carbonate	2x100g
62	Calcium hydroxide	500gx250g
63	Cadmium chloride	2x100g
64	Cobalt chloride	400g
65	Cobalt nitrate	2x100g
66	Cadmium sulphate	500x100g
67	Copper carbonate	2x500x250g
68	Chlorine water	500ml
69	Copper chloride	2x500g
70	Copper sulphate	500g
71	Copper turnings	2x500g

72	Copper nitrate	500g
73	Calcon	100g
74	Carbon disulphide	2x500g
75	Carbon tetrachloride	7x500ml
76	Chlonoform	2x2.5 litre
77	Cericammonium nitrate	Xlil
78	Cadmium nitrate	500g
79	Cinnamic acid	500g
80	Cadmium iodide	100g
81	Cyclohexane	3x500ml
82	Lithizone	5g
83	Qimethy eglyoxime	100x50g
84	Dipbraylamine	400g

Apparatus List:

<u>Sr.No</u>	Name of article	Quantity
1	Adaptor for crucible	24
2	Burette (50ml)	25
3	Beaker (100ml)	11
4	Beaker (250)	23
5	Beaker (500)	20
6	Beaker (1000ml)	3
7	Burette brush	12
8	Beahive Shelf	11
9	Buchner Funnel	13

10	Beaker (10ml)	25
11	Beaker (25ml)	25
12	Bark Cork	60
13	China Dish	36
14	Conical flask (250ml)	17
15	Capillary tube	6 pkt
16	Charcoal blocks	72
17	Conical flask (100ml)	25
18	Chromatography sheet	20
19	Conductivity Cell	5
20	Clay Pipe triangle	25
21	Centrifugal tube	49
22	Conical flask (10ml)	22
23	Conical flask (25ml)	24
24	Coupling Jar	22
25	Copper wire	5mm
26	Copper plate	2
27	Calomal electrode for potantiometer	2

28	Combination pH electrode	3
29	Dropper	30
30	Dessicator	17
31	Dessicator Plate	12
32	Dilatometer	10
33	Euoliometer Tube	6
34	Filter Paper	1 Pkt
35	Funnel (3")	5
36	Funnel (2.5")	23
37	Filter Pump	20
38	Flask filtering (500 ml)	4
39	Flask filtering (250ml)	10
40	Gas jar	21
41	glass tubing	1/2 Kg
42	Glass rodding	4 Kg
43	Gas absorption pipette	23
44	Gloves acid proof	7 pair
45	Gas pipe & clip (LPG)	20m+ 50 clip

46	Hard glass test tube	78
47	Hoffmann,s bottle	4
48	Ignition Tube	9.5 Pkt
49	Measuring flask (500ml)	6
50	Measuring flask (250 ml)	22
51	Measuring flask (1000ml)	5
52	Measuring Cylinder (100ml)	2
53	Measuring Cylinder (25ml)	8
54	Measuring flask (100ml)	24
55	Measuring Cylinder (10ml)	10
56	Measuring Cylinder (500ml)	1
57	Ostwald Viscometer	22
58	Pipette (20 ml)	30
59	Pestal + Mortar	4
60	Pipette graduated (10ml)	17
61	Pipette (10ml)	24
62	Pipette (25ml)	23
63	Porus Plate	26

64	Pyknometer	24
65	Platinum wire	1
66	Reagent bottle (125ml) N.M.	188
67	Reagent bottle (250ml) N.M.	26
68	Reagent bottle (125ml) W.M	42
69	Round bottomed flask (250ml)	23
70	Rubber Cork	220
71	Rubber Tubing	2 coil
72	Reflux Condenser	28
73	Rubber collar	18
74	Separating funnel	23
75	Sintered glass Crucible (g-3)	21
76	Sintered glass crucible (g-4)	22
77	Sprayer for Chromatography	2
78	Silica Crucible (25ml)	20
79	Stalgamometer	25
80	Semi microtube	150
81	Slioles	2

88	Test tube	696
82	Steam distillation assembly	11
83	Sodium lamp with transformer	2
84	Thiels tube	9
85	Test tube brush	28
86	Thermometer (360)	20
87	Thermometer (110)	30
89	Trough	6
90	Thistle funnel	16
91	Victor meyer,s apparatus	2
92	Watch glass	49
93	Woulf bottle	7
94	Weighing bottle	24
95	Winchester bottle (2 litre)	3
96	Winchester bottle (3 litre)	3
97	Winchester bottle (5 litre)	3
98	Zinc rod	2

Apparatus List:

Sr.No.	Name of apparatus	Quantity
1	Analytical Balance	12
2	Atomic Model set	1
3	Abb's refractometer	4
4	Blow pipe	12
5	Barrenger	1
6	Bunsen bunner	27
7	Cork borer set	3
8	Clamp with boss head	49
9	Clamp fisher type	34
10	Conductivity bridge	7
11	Centrifugation machine	2
12	Colorimeter	3
13	Dust bins	1
14	Drier	1
15	Digital balance	1
16	Extension board	2
17	File	2
18	Farnece	1
19	Four way stop cock	12
20	Galvanometer	2
21	Gas Cylinder	2
22	Hot plate	7
23	Holder for semi micro test tube	24
24	Heating mantle	6
25	Hoffman's screw clip	20
26	Iron stand	30

27	Kipp's apparatus	2
28	Magnetic Stirrer	1
29	Melting point apparatus	1
30	Notice board	1
31	Oven	2
32	Office revolving chair	1
33	Office Visitor Chair	5
34	Polythene bottle	24
35	Periodic table chart	1
36	Pinch clip screw type	24
37	Potentiometer	2
38	Ph Meter	3
39	Polarimeter	2
40	Platinum electrode	2
41	Ring for funnel	21
42	Refrigrator	1
43	Spirit lamps	18
44	Stools	20
45	Spatula	32
46	Sand bath	21
47	Suction pump	2
48	Shaking machine	2
49	Slide projector	1
50	Stop clock	12
51	Test tube stand	26
52	Tong	24
53	Thistle funnel top	12
54	Tripood stand	37

55	Test tube holder	28
56	TLC apparatus	1
57	Weight box	10
58	Wire gauge	41
59	Wash bottle	28
60	Water steel distiller	1
61	Water bath (Copper)	24
62	Water bath (double hold)	3
63	Wooden stand for semi micro test tube	24
64	Water deionizer	1

Photo Gallery:



Laboratory Audit and Check List:

Sr.No.	Topic	Yes	No	NA
A	General Work Environment			
1	Work area and Design	Yes		
2	Lab Manual	Yes		
3	Means available to reach items stored at shoulder level	Yes		
4	Emergency Action Plan	Yes		
5	Material Safety Data Sheets (MSDS) readily accessible	Yes		
6	Chemical Hygiene Plan available in Lab	Yes		
7	Aprons/ protective measures available	Yes		
8	Ice making machines posted not for human consumption	Yes		
B	Exit			
1	Required Visible Signs	Yes		
2	Path free from obstacle	Yes		
3	Alternate Exit Available	Yes		
C	Emergency Planning			
1	Fire extinguisher mounted near doorway	Yes		
2	Fire Extinguisher fully charged	Yes		
3	Fire Extinguisher tamper indicator in place	Yes		
4	Fire Extinguisher inspected	Yes		
5	Shower	Yes		
6	First Aid Box	Yes		
7	Emergency gas and Electricity shut-off	Yes		
D	Chemical Storage			

1	Refrigeration Units for Chemical Storage labeled No Food	Yes		
2	Refrigeration units for food labeled Food only			NA
3	Chemical Storage Cabinets properly labeled	Yes		
4	No Volatile Chemical Storage in unventilated environmental chambers		No	
5	Containers Clearly labeled with Chemical name	Yes		
6	Storage strictly limited in actively used fume hoods	Yes		
7	Storage strictly limited in actively used fume hoods	Yes		
8	Materials with shelf lives dated and disposed of per supplier's recommendations		No	
9	Refrigeration units approved for flammables storage	Yes		
10	Flammable liquid not stored near hot plates or other ignition sources	Yes		
E	Waste Disposal			
1	Containers kept sealed except during transfer	Yes		
2	Containers labeled with the words Hazardous Waste	Yes		
3	Separate disposal containers available for broken glass	Yes		
F	Ventilation			
1	Local Exhaust	Yes		
2	Fume hoods used	Yes		
G	Security			

1	Doors to the lab operate, close and lock properly	Yes		
2	Windows operate, close and lock properly	Yes		
H	Training / Awareness			
1	Workers have attended Laboratory Safety Training	Yes		
2	Workers have attended Emergency Action Plan Training	Yes		
3	Workers have attended laboratory Security Training	Yes		
I	Do Laboratory Workers Know			
1	What to do in the event of an emergency, such as fire, injury, including evacuation routes	Yes		
2	What an MSDS is and where to find them and other safety information		No	
3	What type of personal protective equipment to use and when to use it	Yes		
4	What are the most hazardous materials you use and what precautions to take			NA
5	What to do with Chemical Waste			NA

Department of Music Vocal

Laboratory Audit



History:

- Year of Establishment : 1970
- Names of Programmes Offered: B.A. (Music Vocal)
- Pattern : UG Semester & CbCS

Vision:

To provide a professional education for music majors that develop, nurtures, and assures their competency in all aspects of the discipline.

Mission:

To encourage development of the creative, intuitive, and intellectual capabilities of students, faculty, and audience.

Scope and Importance:

Music is a form of art which can express any human emotion, blend with the rhythm and tune harmoniously to express the hidden talent. Since, the dawn of civilization, music has been considered as an inborn talent of the man, which can be vocal and instrumental. Music is sung or played for self-expression, self-satisfaction, offering worship and entertaining others. The instrumental music refers to the music produced by instruments like guitar sarod, sitar, piano, keyboard, tabla, flute, violin etc.

Infrastructure Details:

Practical Lab: 01

Alimira: 01

Chair: 01

Table

Faculty Members:

Sr.No	Name of Teachers	Designation	Qualification	Teaching Experience
1	Ms. Nikita	Assistant Professor	M.A. (Music Vocal)	2 years

Laboratory Equipments:

Sr.No	Equipment Name	Quantity
1	Harmoniums	7
2	Tanpura	12
3	Chattu	5
4	Dugga	5
5	Santoor	1 with box
6	Swar Mandal	1 with box
7	Jhika	1
8	Miracas	2
9	Khanjri	1 Ps
10	Dolak	2
11	Tape recorder	3
12	Cassettes	4
13	Records	13 Ps
14	Dari, Matress, Doormate	Dari 2
15	Bed Sheets	1
16	Tanpura Box	2
17	Marmonium Box	4
18	Box	1
19	Nal	1
20	Gopi chand	2
21	Tabla bags	2
22	Portrait	3
23	Lock	3
24	Key Ring	1
25	Agarbati Stand	2 Ps

26	Brush	1
27	Pedestal Fan	1
28	Curtains	2
29	Tabla Hammer	1
30	Duhatta	8
31	Bag	1Tabla 1 Harmonium
32	Floormat	1
	Matress	1
	Bed sheet	1
	Carpet	2
	Masand Cover	2
	Door Mat	1

Photo Gallery:



Department of Music Instrument: Laboratory Audit



History:

- Year of Establishment : 1970
- Names of Programmes offered: B.A (Music Instrument)
- Pattern : UG-Semester & CBCS

Vision:

Our vision is built on our belief that music learning works best when young people are making music, and when their existing passion for music is reflected and built-upon in the classroom. We want to help more young people to be able to access music making and encourage them to keep playing more music and for longer.

Mission:

To develop in the student an understanding and appreciation of the various types, styles, and forms of music which can be beneficial during an entire lifetime.

Scope and Importance:

Music is a natural form of expression in the development of children and should be an integral part of the school curriculum from preschool throughout high school. The music program has aesthetic, creative, cultural, and academic values that complete and further the educational and social values of a quality education. The school is responsible for helping all children understand and enjoy music. It should assist in discovering and nurturing musical talent. Every child should have the opportunity to develop their potentiality for musical expression through exploration, experimentation, exposure, and enrichment. The study and playing of a musical instrument and vocal training, whether alone or in a group, offers the young person a lifelong enjoyment and appreciation of music. This might

be attained through creating, performing, or eventually, just as an educated

listener. The pursuance of music, one of the Fine Arts, leads to deeper understanding and love for the other Fine Arts. This ability to value the aesthetic to a higher degree raises the joy of living and offers the person a foundation to become happy, well-adjusted, and useful cooperative citizen.

Infrastructure Details:

- Practical Lab: 03
- Alumina: 03(Wooden)
- Table: 01
- Chair (Wooden): 02
- Stool: 07

Faculty Members:

Sr.No.	Name of Teacher	Designation	Qualification	Teaching Experience
1	Mrs. Manju Jain	Assistant Professor	M.A. (Music Instrument)	8 years

Laboratory Equipments:

Sr No.	Equipment Name	Balance
1	Sitar	30
2	Boxes of sitar	5
3	Guitar	3
4	Violon with cover	1
5	Harmonium	2
6	Banjo	4
7	Tabla	6
8	Tanpura	1
9	Mridana	1
10	Tabla Hammer	2

11	Manjiras	1
12	Empty box (Raymond's)	1
13	Jal Tarana	
14	Jhanj Brass with stand	1
15	Fluts	6
16	Bongo	1
17	Dilruba	1
18	Cutter plan	1
19	Madhurveena	1
20	Tabla Ring	3
21	Nal Tarana	1
22	Portrait	2
23	Records	3
24	Drum bealier	
25	Plate Tarang	1
26	Matress cover	1
27	Locks	8
28	Scissor	1
29	Foot Pad	1
30	Ghungru	1 Pair
31	Sur mandal	1
32	Tabla Bag	1
33	Ampilifier	2
34	Khangaree	2
35	Mirakas	1
36	Nal	1
37	Dholak	1
38	Speaker system	2
39	Drugged	1
40	Dari	2
41	Taat patti	4
42	Cloth for stage cover	1
43	Daff	1

44	Flre chong(Khanjree orange colour)	
45	Hand tal	1
46	Bed cover	3
47	Bucket for jal tarang	1
48	Deck(Casset player)	1
49	Cassalic player	1
50	Plastic cover	2
51	Deru	1
52	Tumba	1
53	Magic sing ET-19 KV	1
54	Banjo Electric with Emplifier	1
55	Dupatta	10
56	Curtain	2
57	Bagjor sitar, Tabla & Harmonium	3
58	Door mat	1

Photo Gallery:





Home Science Department

Laboratory Audit

HOME SCIENCE



History:

- Year of Establishments: 1970
- Name of Programmes Offered: B.A. (Home Science)
- System: UG –semester & CBCS

Vision:

- To develop the Human Resource in the field of Nutrition and Dietetics , Food science, Extension Education, Textiles and laundry Science, Child development, Family resource management and Community nutrition .
- To develop the department a Center of Excellence in the field of Home Science.

Mission:

1. To empower and develop an appreciation for rural life in a holistic manner.
2. To achieve an efficient use of human and non human resources in everyday living.

Scope and Importance:

Home Science is a dynamic and ever-growing subject having maximum practical application throughout our life. The scope of studying Home Science is vast and varied in nature. As it indicates from its branches and significance, the scope of Home Science begins from the conception of the individual till the death, in every stages and aspects of life.

The scope not only confines to preparing the students for a number of professions, rather it prepares the pupils to become well balanced, competent and total human

being first and professional next. The study of Home Science opens avenues for a number of professions, such as teacher ship, researchers, academicians, counselors, dieticians, nurses, designers, interior decorators, consultants, child development workers, nutritionists, social workers etc.

The scope of Home Science education goes beyond preparing the home maker with full professionalism to face the challenges of modern day family life. It is no easier to maintain and manage the peaceful family life, without any preparations and developing the specific skills required.

Faculty Members:

Sr.No.	Name of Teacher	Designation	Qualification	Teaching Experience
1	Ms. Sangeeta Manrow	Associate Professor	M.Phil	22

Laboratory Equipments:

Sr.No.	Item	Quantity
1	Fridge	1
2	Sewing Machine	20
3	Microwave	1
4	Mixie Grinder	3
5	Fire Extinguisher	1
6	R.O.	1
7	Crockery Item	
8	Gas Burner	11

Photo Gallery:



Department of Physical Education

Laboratory Audit



History:

- Year of Establishments: 2007
- Names of Programmes Offered: UG: B.A. Physical Education
- System: Semester & CBCS

Vision:

To create an environment that allows students to understand and to display cooperative social skills, teamwork, peer interaction, leadership, sportsmanship, positive attitude, self-esteem, and enjoyment. The curriculum will create an environment that focuses on current information, technology, and equipment to meet the needs of individual students.

Mission:

The Department of Health Physical Education is dedicated to and focused on the development of the whole student: physical, mental, and intellectual. The department is dedicated to providing a high quality education and career preparation with the idea of excellent teaching being the central to our mission. Our students teach in a variety of settings, including schools, sports arenas, fitness centers, community/public health organizations, physical therapy clinics, and outdoor recreation endeavors.

Scope and importance:

Health Education aims to provide knowledge and skills to empower pupils to lead healthy lifestyles and to take responsibility for the health and well-being of others and the environment. Another key aim for the programme is to provide pupils with the opportunities to develop and practice good health habits and attitudes.

Physical Education aims to provide children and young people with learning experiences that enable them to develop:

1. The knowledge, motivation and competence to live a physically active life.
2. Physically, morally, intellectually and socially within an educational context where pupils are valued and cared.

Facility:

Printer: 01

Table 4'*2': 01

Chair Wooden: 01

Office Wooden Table 4*3*2: 01

Steel Almirah: 01

Wooden Shoe rack: 01

Visiting Chair: 04

Revolving Chair: 01

Faculty Members:

Sr.No.	Name of Teacher	Designation	Qualification	Teaching Experience
1	Ms. Sonam	Assistant Professor		

Laboratory Equipment List:

Sr.No.	Item	Quantity
1	Table Tennis Balls	36
2	Hockey Ball Goal Post	1
3	Starter Clapper	1
4	Cricket Net	1
5	Weight Lifting Belt	1
6	Discur	10
7	Weight Lifting Nelco 135Kg International Olympie Coloured	1
8	Weight Lifting Glelco International Black Rubbcrosed 135 Kg	1
9	Charts	6
10	Weight Lifting Stand	1
11	Sliver Coins	17
12	Cricket Roller	1
13	Pitch Cover	1
14	Hand Ball	10
15	Basket Ball	10
16	Hurdles	10
17	Valley Ball	10
18	Hockey (Wooden)	5
19	Hockey Fiber	5
20	Kabaddi Mat	130
21	Bat	3
22	Victory Stand	1
23	Yoga Stand	1
24	Yoga Mat	6
25	Boxing Kit Bag	1

26	Stop Watch	5
27	Water Campur	1

Department of BCA

Laboratory Audit



History:

- Year of Establishments: 2000
- Name of Programmes Offered: BCA
- System : UG-Semester & CBCS

Vision:

- To provide the atmosphere for students so they can create employment opportunities for themselves as well as for others.
- To prepare the students for technical training with revolutionary vision who can compete globally.
- To brush up the ethical as well as technical skills in students so that they will become the preferable choice of a prospective employer.

Mission:

- To provide technical education to the students through well-equipped labs
- Giving personal attention to weaker students consequently, allowing them to cope up with other scholars
- To provide a student-friendly environment that is amicable for practical knowledge.
- To implement the professional and communication skills of the students, working deliberately.

Scope and Importance:

With the vast and rapid growth of the internet, digital media channels like facebook, twitter, Instagram, linkedin, etc. have now become one of the new communication channels that allow personal interaction. Computer and mobile applications have played an active role in the digital revolution, especially in the recent years.

All these applications like facebook, twitter, snapchat, etc. are made possible all thanks to coding and programming, which is the language of computers and the digital world.

One of the best ways of learning this language is by enrolling yourself in a full time Bachelor in Computer Application course, in which students are taught about the coding language in detail. Students who opt for this course learn skills and information not only about computer and information technology but also in communication, organization and management.

The opportunities available for a BCA graduate are software programmer, system and network administrator, web designer, etc. The range of chances in Information Technology is immense. Some are creative while others are highly technical.

Facility:

- LED/CPU/KB/Mouse : 02
- Printer: 01
- A.C. : 01
- Tube Light/Fan: 02

Faculty Members:

Sr.No.	Name of Teachers	Designation	Qualification	Teaching Experience
1	Dr. Nutan Sharma	Assistant Professor	MCA, MPhil, PhD	14 Years
2	Dr. Preeti	Assistant Professor	MCA, PhD	8 Years
3	Ms. Garima	Assistant Professor	MCA	5 years
4	Ms. Priyanka	Assistant Professor	MCA	5 months

Laboratory Equipments:

Sr.NO.	Item Name	Quantity
1	LED/CPU/KB/Mouse	20

2	Smart Board	1
3	A.C.	3
4	Fan	6
5	Tube Light	6
6	Printer	1

Photo Gallery:



Printer



Smart Board



LED/CPU/KB/Mouse + A.C



Projector

History:

- Year of Establishments: 2000
- Name of Programmes Offered: B.Sc Computer Science
- System : UG-Semester & CBCS

Vision:

To provide India and the World, technical manpower of the highest academic excellence and World class by shaping our youth through holistic and integrated education of the highest quality

Mission:

- To impart high quality professional training at the undergraduate level with an emphasis on basic principles of computer science and engineering.
- To establish nationally and internationally recognized research centers and expose the students to broad research experience.
- To impart moral and ethical values, and interpersonal skills to the students.
- To empower the students with the required skills to solve the complex technological problems of modern society and also provide them with a framework for promoting collaborative and multidisciplinary activities.

Scope and Importance:

To put it in simple terms, Computer Science is actually the study of computer systems, how they operate and function, its hardware, software, and algorithms for the database. It is concerned with the design, development and applications of computer science across different technologies. There is a vast scope of computer science in the contemporary world as it encompasses varied areas of study like Artificial Intelligence, Network Security, Database Systems, Machine Learning, Programming Languages, Human-Computer Interaction, amongst others.

Now that you are familiar with the salient features of this popular discipline, let's explore the scope of computer science as a career. Computer Science graduates are always in demand across varied sectors like IT companies, business

organisations, research institutes, designing firms, to name a few. Take a look at the major jobs offered in Computer Science

- Software Developer
- Database Administrator
- Hardware Engineers
- Systems Analyst
- Computer Network Architect
- Web Developer
- Information Security Analyst
- Computer and Information Research Scientists
- Computer and Information Systems Manager
- IT Project Manager
- Applications Developer
- Business Intelligence Analyst
- Mobile Applications Developer
- Data Architect
- Quality Assurance Associate / Analyst
- UX Designer
- Information Technology Auditor
- CRM System Analyst
- Project Manager
- Database Developer

Faculty Members:

Sr.No	Name of teachers	Designation	Qualification	Teaching Experience
1	Dr. Deepu Saini	Assistant Professor	M.Sc, Ph.D	12 years
2	Dr. Ritika	Assistant Professor	MCA, Ph.D	1 year

Laboratory Equipments:

Sr.No.	Item Name	Quantity
1	Computer with UPS	20

2	Laptop Hp	02
3	Printer Hp Laser Jet 1005	01
4	Ac with stabilizer	01
5	Smart Board with Stabilizer	01
6	Pen Drive	05
7	Wifi Router	01
8	Camera	01
9	Web Camera	01
10	Boya Mike	02

Photo Gallery:



Laboratory Audit and Check List:

Sr.No	Topic	Yes	NO	NA
A	Space and Layout			
1	Is there enough space to move around safely?	Yes		
2	Can everyone sit at their place comfortably?	yes		
3	Is there enough desk/ bench space for the work & equipment in routine use?	Yes		
4	Is there enough space for Storage	Yes		
5	Is the area clean & free of clutter?	Yes		
B	General work Environment			
1	Is the room temperature comfortable?	Yes		
2	Is there enough fresh air, without draughts?	Yes		
3	Can the windows be opened easily?	Yes		
4	Are windows in clean & safe condition?	Yes		
5	Is lighting adequate in all areas?	Yes		
C	Slips, Trips and Manual Handling			
1	Are floor surfaces, carpets etc. in a safe condition?	Yes		

2	Are floors free of trailing cables, boxes & other trip hazards?		No	
3	Furniture, Fittings & Equipment	Yes		
4	Does the fabric of the room appear sound?	Yes		
5	Are furniture & fittings in good condition?	Yes		
6	Are height adjustable chairs provided for working at desk/ bench ?		No	
7	Is all equipment working properly?	Yes		
8	Are hot, sharp or dangerous moving parts guarded?			NA
9	Are there enough accessible power points overloading sockets?	Yes		
10	Do all electric equipment & cables pass visual inspection?	Yes		
D	Software			
1	Appropriate OS	Yes		
2	MS Office	Yes		
3	C and C++ Compilers	Yes		
4	SQL Database	Yes		
5	Software required for all class students ?	yes		

6	Antivirus Software	Yes		
E	Security			
1	Door to the lab operate, close and lock properly	Yes		
2	Windows operate, close and lock properly	Yes		
F	Do Laboratory workers know			
1	What to do in the event of an emergency, such as short- circuit		NO	
2	How to clean Computers parts ?	Yes		

Department of Commerce

Laboratory Audit



History:

- Year of Establishments: 2000
- Name of Programmes Offered: B.COM (Computer Application)
- System : UG-Semester & CBCS

Vision:

The Department strives to take the students beyond academics and offers innumerable exposures and opportunities to facilitate them to grow in self-confidence and self-esteem, so that they will be able to face all challenges of life successfully. The entire world has become a small village with the net-work of communication technology. In such a fast changing and dynamic world, it is imperative that the present day youth is prepared for innovation and creativity, leading to excellence in performance and good communicators in building human relationships and promoting potential markets and also learn the art of living. The Teaching program includes Lectures, Guest Lectures, Problem Solving, Group Discussions, Seminar Presentations, Case Study, Mini Research projects, Industrial visits, Inter class competitions etc.

Mission:

- To develop conceptual, technical and human relations skill among the students through formal and informal education.
- To build Industry-specific competencies to match with the requirements of competitive world.
- To shape the personality that balances the needs of professional, social and personal life.
- To train the youth to make them employable.

Scope and Importance:

B.Com in Computer Application graduates can find lot of career opportunities in the field of accounting, banking, marketing, e-commerce, teaching, insurance and stock markets. They can work as Probationary officer, Loan officer or Collection officer in various banks. These graduates can also find lucrative jobs in the software industry. Different job profiles available for these graduates are given below.

Mobile Application Developer

CAD Application Support Technician

Computer Application Specialist

Accounts Assistant

Computer Programmer

Computer Operator

Application Developer

Computer-Laboratory Technician

Clerk-cum- Computer Operator

Auditors

Book Keepers

Budget Analysts

Faculty Members:

Sr.No	Name of Teacher	Designation	Qualification	Teaching Experience
1	Mrs. Neeru Chawla	Associate Professor	M.Com	32 Years
2	Ms. Anita Verma	Associate Professor	M.Com, M.Phill	27 Years
3	Dr. Amita	Associate	M.Com,	32 Years

4	Gaba Ms. Ashima Yadav	Professor Assistant Professor	M.Phil, PhD M.Com, MBA, PGDCA	9 Years
5	Ms. Gyatri Arya	Assistant Professor	MBA, M.Com, MMC, M.Phil	5 Years
6	Ms. Vaishali	Assistant Professor	M.Com, NET	1 Year
7	Dr. Sucheta Soni	Assistant Professor	MCA, PhD	11 Years
8	Ms. Himanshi Jain	Assistant Professor	MCA	5.5 Years
9	Ms. Tamana Saneja	Assistant Professor	M.Com, NET	3.5 Years

Laboratory Equipments:

Sr.No	Name of Equipments	Quantity
1	Desktop PC with (CPU, Keyboard, Mouse, LED, UPS)	17
2	Smart Board	1
3	Printer	2
4	Desktop PC with (CPU Keyboard, Mouse, Monitor)	13

Photo Gallery:



Laboratory Audit and Check List:

Sr.No	Topic	Yes	NO	NA
A	Space and Layout			
1	Is there enough space to move around safely?	Yes		
2	Can everyone sit at their place comfortably?	yes		

3	Is there enough desk/	Yes		
	bench space for the work & equipment in routine use?			
4	Is there enough space for Storage	Yes		
5	Is the area clean & free of clutter?	Yes		
B	General work Environment			
1	Is the room temperature comfortable?	Yes		
2	Is there enough fresh air, without draughts?	Yes		
3	Can the windows be opened easily?	Yes		
4	Are windows in clean & safe condition?	Yes		
5	Is lighting adequate in all areas?	Yes		
C	Slips, Trips and Manual Handling			
1	Are floor surfaces, carpets etc. in a safe condition?	Yes		
2	Are floors free of trailing cables, boxes & other trip hazards?		No	
3	Furniture, Fittings & Equipment	Yes		
4	Does the fabric of the room appear sound?	Yes		

5	Are furniture & fittings in good condition?	Yes		
6	Are height adjustable chairs provided for working at desk/ bench ?		No	
7	Is all equipment working properly?	Yes		
8	Are hot, sharp or dangerous moving parts guarded?			NA
9	Are there enough accessible power points overloading sockets?	Yes		
10	Do all electric equipment & cables pass visual inspection?	Yes		
D	Software			
1	Appropriate OS	Yes		
2	MS Office	Yes		
3	C and C++ Compilers	Yes		
4	SQL Database	Yes		
5	Software required for all class students ?	yes		
6	Antivirus Software	Yes		
E	Security			
1	Door to the lab operate, close and lock properly	Yes		
2	Windows operate, close and lock properly	Yes		

F	Do Laboratory workers know			
1	What to do in the event of an emergency, such as short- circuit		NO	
2	How to clean Computers parts ?	Yes		

History:

- Year of Establishments: 1970
- Name of Programmes Offered: B.A (Psychology)
- System : UG-Semester & CBCS

Vision:

To impart quality education, enhance research programs, updating skills and inculcating values, ethics among students.

Mission:

- Encourage the overall and dynamic personality development of students.
- Develop skilled psychologist and counselors.
- Create awareness about mental health.
- Enhancing the research activities in the department.
- Encourage the overall and dynamic personality development of students.

Scope and Importance:

Psychology, as a discipline, studies human behavior and mental processes from diverse perspectives. It employs scientific methods to understand human perception, learning, emotions and reactions to situations.

Psychology is an interdisciplinary discipline since it shares its boundaries with several other disciplines like social sciences, life sciences and artificial intelligence. Needless to say, the scopes of psychology, as a career, are huge.

A psychologist has a future in diverse fields, including Clinical Psychology, Industrial Psychology and Organization Behavior, School Psychology, Forensic

Psychology, Sports Psychology, Rehabilitation, Cognitive Neuroscience and many more. Moreover, teaching and research in all these assorted fields assure a promising future for the students of psychology.

Scopes and job opportunities in diverse areas of psychology

- **Clinical Psychology/ Rehabilitation and Counselling Psychology:** Work as a Licensed Clinical Psychologist in Government and private hospitals, NGOs, private clinics, freelancers.
- **Industrial Psychology & Organization Behavior:** Work as I/O Psychologist, Consultant at organizations, Selection and recruitment.
- **Forensic Psychology:** Work as a consultant in police departments, crime branches, Defense/army, Legal firms, Investigation Bureau etc.
- **School Psychology:** Work as a School Psychologist at public and private schools, universities, mental health centre's, community-based treatment centers, residential clinics and hospitals, juvenile justice programs, and in private clinics.
- **Sports Psychology:** Work as Sports Psychologist for school/college/university sports teams, professional teams, Sports Rehabilitation Specialist, Sports Research Specialist and Consultants
- **Psychometry:** Work as a Professional Test Developer and Psychometrician for Government and Private Organizations, Consultant and Researcher.

Faculty Members:

Sr.No	Name of Teachers	Designation	Qualification	Teaching Experience
1	Ms. Shailja Girdher	Associate Professor	M.A, m.Phil	34 Years
2	Ms. Tamanna Gupta	Assistant Professor	M.Sc, NET, Pursing Ph.D	3.5 Years
3	Ms. Megha	Assistant Professor	M.Sc, B.Ed	1 Years

Laboratory Equipments:

Sr.No	Item Name	Quantity
1	Alexander pass along test	17
2	Aesthesiometer double mouth	16
3	Auditory ocuity apparatus	1
4	Autokinetic Movement Apparatus	2
5	Blind goggles	24
6	Bhatia's Battery of performance	6
7	Color Discs for the color wheel apparatus	3
8	Card Sorting tray	15
9	Color Preference wheel	8
10	Chin Reset	28
11	Call Bell	25
12	Cup & Ball apparatus	3
13	Caampimeter	4
14	Chromoscope with time Calculator (Electric)	2
15	Color Disc for color Mixture	10
16	Concept formation (Appartus)	4
17	Differential Aptitude Test	1
18	Dear born trangle form board teat	3
19	Depth perception Test	4
20	Electrical Color Wheel apparatus	7
21	Ergograph	2

22	Eleminator	9
23	Electric Board with Buzzer (Bell)	1
24	Ear (Model)	1
25	Finger Mazes	5
26	Face and Vace figures (Experiment of perception)	5
27	Finger Dexterity Test	20
28	Geometrical Figures (Experiment of Perception)	4
29	Human Maze (Mettalic)	2
30	Hair Aesthesiometer (For touch localization)	27
31	Herring's Color papers	4
32	Human Maze (double) Electrical	2
33	Hand Dynamo meter	10
34	Human Body Small Chart	1
35	Impulse Counter (6 volts)	2
36	Judging Emotions from photographs	12
37	Koh Block Design Test	2
38	Kinesthetic Figural After Effect	4
39	Mirror Drawing Apparatus (Mechanical)	8
40	Model Brain	1
41	Masson's Disc on motor (Electric)	1
42	Movable Switch Board	1
43	Memory Drum	10
44	Metronome	4

45	Mc Dougall's Disc	2
46	Muller layer illusion	20
47	Mazes (Plastic)	4
48	Match Stick Problem Box	10
49	Perimeter	7
50	Pneumograph	1
51	Phi- Phenomena	2
52	Re-set Clock	23
53	Reaction Time Appratus	9
54	Stop Watches	18
55	Screen wooden 18" x 21"	16
56	Steadiness Tester	4
57	Screen (Wooden) 12" x 15"	4
58	Seguin form board	2
59	Stylus maze (Wooden)	1
60	Successive Contrast Appratus (After Image)	9
61	Tachistoscope (Fall type)	18
62	Thematic Apperception Test	12
63	Tapping Board	3
64	Two Hand Coordination	4
65	Visual Acuity Chart	7
66	Weight Box	25

Photo Gallery:



The following Committee members were present for conducting the lab audits.

Sr.No	Committee members
1	Ms. Neeru
2	Ms. Sangeeta Manrow
3	Dr. Deepu Saini
4	Ms. Pooja Sharma

The compiled detailed report of lab audit is as under:

Overall Departments have laboratory activities are aligned with the department's objectives and priorities. All the essential major equipments are present in the department. Laboratory was fulfilled with minimum equipment and requirements like waste containers are to be appropriately labeled. Practices of not taking food and drink are to be followed in the lab. Incidents/accidents are to be recorded. Ensure all hazardous materials are labeled and stored appropriately.

Recommendation:

- Smart board for practical and instrumental techniques.
- Proper place should be provided to students for keeping bags.
- Need water purifier
- Require Sanitization point at the lab entry.
- Maintain a current Safety Data Sheet for each hazardous chemical present.

Adarsh Mahila Mahavidyalaya, Bhiwani

Internal Quality Assurance Cell (IQAC)

Laboratory Audit Report (2021-2022)



About College



Established in 1970 and declared “Best College” by the government of Haryana, Adarsh Mahila Mahavidyalaya, Bhiwani has carved a prime niche for itself on the educational map of Haryana. The college has a distinctive proud history of being established by social reformers who were also dedicated to the cause of women's education. It has rendered yeoman’s service to the cause of women upliftment and education in the area by imparting quality education to the girls for half a century now. The institution was established and nomenclature with the noble and elevating vision to create ‘Adarsh’ i.e ideal young women who combine the best of Old and New the traditional ‘Sanskaras’ and a modern outlook; and the institute has lived up to its name. The multifarious achievements of the college and its excellent performance in the fields of Academic, Co-curricular activities and Sports compel admiration.

Affiliated to C.B.L.U Bhiwani, providing education to around 3000 students, the college offers multi faculty U.G courses in Arts, Commerce and Science; PG courses and also professional courses like BCA, ASM, B.COM, B.Sc with Computers. The college campus combines the Greenery of Nature and Elegance of Infrastructure. It provides a very congenial and conducive atmosphere ideal for all round growth of the students. Sports grounds, open gym, large lawns, auditorium, hostel facilities, equipped library, pleasant canteen everything blends to create a beautiful ambience and a platform for full growth of one’s potentials and capabilities. The

dedicated and highly qualified faculty and the enterprising college management consistently continue to put in their best efforts to take the college to even greater heights of all round excellence and glory.

Vision

Adarsh Mahila Mahavidyalaya, under the visionary leadership provided by our Governing Body is committed to establish a world class platform providing quality education to remove the darkness of ignorance from life of women and make them empowered and sensitized.

Mission

Mahavidyalaya strives for excellence through creation, dissemination and application of knowledge in consonance with the social needs for a brighter tomorrow.

Objectives of the Institution

Adarsh Mahila Mahavidyalaya is a unique institution which endeavors for overall personality development and career building of its students.

Some of its Objectives are:

- To enable the young generation to earn their livelihood in a dignified manner.
- To produce students of the highest caliber who become trendsetters in their respective professions.
- To develop synergy with others in the society.
- To provide a free and healthy atmosphere and equal opportunities so as to generate and motivate leaders.

Laboratory

Science educators have believed that the laboratory is an important means of instruction. Laboratory instruction was considered essential because it provided training in observation, supplied detailed information, and aroused pupils' interest.

Writing about laboratory teaching, McKeachie said:

Laboratory teaching assumes that first-hand experience in observation and manipulation of the materials of science is superior to other methods of developing understanding and appreciation. Laboratory training is also frequently used to develop skills necessary for more advanced study or research.

From the standpoint of theory, the activity of the student, the sensor motor nature of the experience, and the individualization of laboratory instruction should contribute positively to learning. Information cannot usually be obtained, however, by direct experience as rapidly as it can from abstractions presented orally or in print. Thus, one would not expect laboratory teaching to have an advantage over other teaching methods in the amount of information retention, in ability to apply learning, or in actual skill in observation or manipulation of materials.

Five groups of objectives that may be achieved through the use of the laboratory in science classes:

1. Skills - manipulative, inquiry, investigative, organizational, communicative.
2. Concept - for example, hypothesis, theoretical model, taxonomic category.
3. Cognitive abilities - critical thinking, problem solving, application, analysis, synthesis.
4. Understanding the nature of Science - scientific enterprises, scientists and how they work, existence of a multiplicity of scientific methods,

Interrelationships between science and technology and among the various disciplines of science.

5. Attitude - for example curiosity, interest, risk taking, objectives, precision, confidence, perseverance, satisfaction, responsibility, consensus, collaboration, and liking science.

Participating in laboratory experiments would help students learn methods of accurate observation and inductive reasoning. However, the focus on prescribing specific experiments and procedures, illustrated, limited the effectiveness of early laboratory education. In the rush to specify laboratory experiments, procedures, and equipment, little attention had been paid to how students might learn from these experiences.

Terms related in Lab inspection:

“Appropriate Hazard Warning” – Any words, pictures, symbols, or combination thereof appears on a label or other appropriate form of warning which convey the health and physical hazards, including the target organ effects of the chemical(s) in the container(s).

“Categories of Hazardous Chemicals” – A grouping of hazardous chemicals with similar properties.

“Label” – Any written, printed, or graphic material displayed on or affixed to containers of hazardous chemicals, and which includes the same name as on the Safety Data Sheet (SDS) or Material Safety Data Sheet (MSDS).

“Physical Hazard” – A chemical which is a combustible liquid, a compressed gas, explosive, flammable, an organic peroxide, an oxidizer, pyrophoric, unstable (reactive), or water-reactive.

“Stationary Process Container” – A tank, vat or other such container which holds different hazardous chemicals at different times.

“Personal Protective Equipment” – Protective equipment provided to an employee by the employer which provides a level of protection to chemicals to which an employee may be exposed that will be adequate to ensure their health and safety based on current industry standards.

Concept of Laboratory audit

The concept of quality is central to the delivery of laboratory services and this is achieved through the incorporation of quality systems, quality control and quality assurance in all aspects of laboratory practice. Essential to all aspects of laboratory results is to ensure that they are accurate, reliable and delivered in a timely fashion. To ensure that these requirements are in place and that they are consistently being met, audits should be regularly undertaken.



The aim of the audit is:

- To determine labs effectiveness and identify problem areas.
- Monitoring the effectiveness of the existing quality system.
- Correcting any deficiencies that are identified.
- Working toward continuous improvement.
- Planning and implementing an improved quality system.

During audits of a laboratory function, information is gathered about

- Suitability of processes and operating procedures.
- Staff competence and training.
- Reliability and accuracy of equipment.
- Suitability of the laboratory environment.
- The handling of chemicals and equipment.

Audits therefore enable the laboratory to understand how well it is performing when compared to a benchmark or standard. To be effective, laboratory auditing should report both non-conformances and corrective actions, and also to highlight areas of good practice so that other laboratories or departments can exchange information and review working practices.

The science laboratory inspection checklist has been developed to support each laboratory in building and maintaining a safety program that meets the expectations outlined in the Laboratory Safety Manual. The checklist has these sections:

- Good Laboratory Design
- Laboratory Personnel
- Instrumentation
- Staff Competency
- Lab Training

Audit in college laboratories is a process of review and assessment of laboratory performance, and its purpose should be to improve practical activity by enhancing laboratory performance and making better use of resources. The suggested conduct for an audit and the involvement of personnel are also reviewed. The concept of laboratory audit is central to the delivery of laboratory services and this is achieved through the incorporation of quality systems, quality control and quality assurance in all aspects of laboratory practice. The Laboratory standard consists of five major elements such as hazard identification, chemical hygiene plan, information and training, exposure monitoring and medical consultation and examinations. To ensure that these requirements are in place and that they are consistently being met, audits should be regularly undertaken. A laboratory audit verifies that the laboratory has quality systems in place, follows good laboratory practices and generates data of integrity and quality. Audits of the laboratory will be performed at predefined time intervals, assessing whether the laboratory complies with the defined quality system processes and this can involve procedural or results-based assessment criteria.

The success of the audit is based on adequate preparation, precise performance, well documented and insightful reporting and productive follow-up. Audits are used to identify problems in the laboratory, in order to improve processes and procedures. An outcome of assessment is finding root causes of problems and taking corrective actions. Quality audits play an essential role in the quality management system. Laboratories tend to be organized along specific disciplines.

Objectives of Laboratory Audit:

The audit focused on the following areas:

- 1 Effectively manages the handling of toxic chemicals, glassware and other precious Instruments.
- 2 Manage the waste disposal properly.

- 3 Implements all of the safety controls.
- 4 Proper training to laboratory support staff.

Methodology:

To accomplish the audit objective,

1. Held discussions with key Department and laboratory personnel.
2. Review applicable laws, regulations and Department policies related to materials safety.
3. Review safety policies and procedures in effect at the Department laboratories where materials were handled.
4. Observing laboratory inspections performing limited evaluating of supporting documents.
5. Appropriate training is provided to all covered employees.

Laboratory Inspection Criteria:

Laboratory Door to Signs:

1. Do all entrances to the laboratory space have an appropriate caution sign indicating the hazards present in the area?
2. Are appropriate hazard labels on the laboratory door sign?

Documentation:

1. Warning signs and emergency contact information up to date and posted on doors.
2. Laboratory SOPs are available.

Personal protective equipment:

1. Disposable gloves available, used and disposed of properly.
2. Lab coats are available and worn.

Laboratory Housekeeping:

1. No food, drink, cosmetics, lotions, none work related plants or animals.
2. Broken glass procedures in place.
3. Soap and towel readily available and used for hand washing.
4. Good housekeeping practices are being conducted.

Chemical Storage and Handling:

1. All chemicals are labeled properly.
2. Chemicals are stored according to compatibility.
3. Containers show integrity.
4. Storage areas are labeled.

Compressed Gases:

1. Cylinders are secured properly.

Flammables:

1. Flammables are kept away from heat, ignition, flames and stored in appropriate fridges/freezers or cabinets.

Biological Storage and Handling:

1. Biohazard signage on equipment and materials as appropriate.
2. Export controlled agents and toxins are locked.
3. Biological materials are labeled properly.

Waste Management:

1. Is the chemical waste stored properly?

Fire extinguishers:

1. Is an appropriate fire extinguisher available and easy to access?
2. Has the extinguisher been inspected from time to time?

Department of Zoology

Laboratory Audit



History:

- Year of Establishments: 1987
- Name of programmes Offered: B.Sc
- Pattern: UG Semester

Vision:

The department promotes the discovery and broad knowledge about the biology of animals, evolution and their environments.

Mission:

- To provide transformative, holistic and value-based immersive learning experiences to students.
- To sensitize human society for animal welfare, conservation and protection of biodiversity.
- To equip students with adequate practical skills that will enable them to function productively in society.

Scope and importance:

Zoology is one of the broad and conventional branches of biology that is chosen to study in the field of science. Zoology is the study of the animal kingdom that involves the anatomy, classification, physiology, characteristics, and evolution of all living and extinct animals. Hence, there is a lot of scope in the field of zoology around the globe.

Professional options after seeking graduation, post-graduation, and a doctorate in zoology are varied. Candidates get openings in various government departments, environmental agencies, universities, colleges, biotechnological, pharmaceutical, environmental, or ecological fields.

Zoology makes a huge impact on our world through the scientific study of the evolution, anatomy, physiology, behavior, habitats, and health of animals and

humans. It includes diverse approaches such as electron microscopy, molecular genetics, and field ecology.

By studying animals we develop a better understanding of how we, ourselves, function and interact with the world around us. The search for answers to our questions puts us in the incredible position of being able to affect change, empower better choices, and develop solutions for a stronger, healthier world.

Facility:

1. Practical Laboratory
2. Staff Room
3. Fridge
4. Computer

Faculty Members:

S.No	Name of Teachers	Designation	Qualification	Teaching experience
1	Mrs. Nirmal Malik	Assistant Professor (HOD)	M.Sc Zoology, M.Phil	22 years
2	Ms. Neha	Assistant Professor	M.Sc Zoology, NET, GATE	Nil
3	Ms. Vipula	Assistant Professor	M.Sc Zoology, GATE	Nil

Laboratory Equipments:

Sr.No.	Name of Article	Quantity
1	Teacher's Microscope	1
2	Senior Student Microscope	30
3	Dissecting Microscope	22
4	Slide Box Plastic	1
	100 slides wooden box	1
	12 slides box	1
5	Slide Cabinet	1
6	Staining racks of Teakwood	27
7	Dissection trays 10"*12"	48
8	Dissection box	1
9	Weight box	1
10	Physical balance	1
11	Electrical balance	1
12	Refrigerator (LG)	1
13	Distillation Plant (4ltr/hr)	1
14	Haemocytometer (Imported)	5
15	Haemoglobinometer	14
16	Charts (Raxine)	19
17	Hands lens 3"	11
18	Cork Borer	1
19	Pestel and mortar	2
20	Spirit lamp	25
21	Water bath	1
22	Stop Watch	2
23	Incubator	1
24	Kymograph	1
25	Muscle Chamber	1
26	Smoking burner	1

27	Hot Plate	2
28	Dissection Board (Wooden)	10
29	Over Head Projector	1
30	Projection microscope with TV scanner	1
31	a) Western TV	1
	b) Stablizer(0.5kvA)	1
32	Glass Cutter	2
33	Hand Net	1
34	Pathological microscope's	10
	a) Eye Piece (10X)	10
	b) Objective lens (10X)	
35	Projection slides (2" *2")	100
36	Test tube holder	34
37	Test tube stand	
	a) Aluminium	12
	b) Polythene	12
38	Pipette stand (Plastic)	12
39	Burette Stand with Clamp	10
40	Tripod Stand (Steel)	10
41	Skeletons	8
42	Human Skeleton	
	a) Articulated	1
	b) Disarticulated	1

Specimen

Phylum : Porifera

Sr.No	Specimen	Quantity
1	Sycon	2
2	Grantia	1
3	Hyalonema	1
4	Euspongia	1
5	Spongilla	1
6	Euplectella	1

Phylum : Coelenterata

Sr.No	Specimen	Quantity
1	Porpita	1
2	Aurelia	2
3	Rshizostoma	1
4	Favia	1
5	Tubipora	1
6	Alcyonium	1
7	Metridium	2
8	Zoanthus	2
9	Millipora	1
10	Madrepora	1
11	Valella	1
12	Physalia	1
13	Astrea	1
14	Fungia	1
15	Sea anemone	1

Phylum : Platyhelminthes

Sr.No	Specimen	Quantity
1	Dugesia	1
2	Fasciola	1
3	Taenia	1
4	Echinococcus	1

Phylum : Aschelminthes

Sr.No	Specimen	Quantity
1	Ascaris	2
2	Trichinella	1
3	Ancylostoma	1
4	Melidogyne	1

Phylum : Annelida

Sr.No	Specimen	Quantity
1	Pheretima	1
2	Heteronereis	1
3	Polynoe	1
4	Aphrodite	1
5	Chaetopterus	1
6	Arenicola	1
7	Tubifex	1

Phylum : Arthropoda

Sr.No	Specimen	Quantity
1	Peripatus	1
2	Palaemon	2
3	Lobster	1
4	Lepas	1
5	Sacculina	2
6	Eupagurus	2
7	Cancer	1
8	Balanus	1
9	Periplaneta	1
10	Cyclops	1
11	Schistocera (locust)	1
12	Grasshopper	1
13	Gryllus	1

14	Praying mantis	3
15	Cicada	1
16	Forficula (earwig)	2
17	Apies Idica	1
18	Polistes (Wasp)	1
19	Bombyx mori	1
20	Millipede	2
21	Centipede	2
22	Scorpion	1
23	Spider, fish parasite	3
24	Limulux (King Crab)	3
25	Cimex	1
26	Lepisma	1

ZOOLOGY LABORATORY – MAJOR EQUIPMENTS





Laboratory Audit and Check List

Sr.No	Topic	Yes	No	NA
A	General Work And Environment			
1	Work Area and Design	Yes		
2	Lab Mannual	Yes		
3	Means available to reach items stored at shoulder level.			NA
4	Emergency Action Plan	Yes		
5	Material Safety Data Sheets (MSDS) readily Accessible	Yes		
6	Chemical Hygiene Plan available in Lab	Yes		
7	Aprons/ Protective measures available		No	
8	Ice Making machines posted not for Human Consumption		No	
B	Exit			
1	Required Visible Signs	Yes		
2	Path free from obstacle	Yes		
3	Alternate Exit Available	Yes		
C	Emergency Planning			
1	Fire extinguisher mounted near doorway	Yes		
2	Fire Extinguisher fully charged	Yes		
3	Fire Extinguisher tamper indicator in place	Yes		
4	Fire Extinguisher inspected	Yes		
5	Shower		No	
6	First aid box	Yes		
7	Emergency gas and Electricity shut-off		No	

D	Chemical Storage			
1	Refrigeration units for Chemical Storage labeled No Food		No	
2	Refrigeration units for food labeled food only	Yes		
3	Chemical Storage Cabinets properly labeled	Yes		
4	No Volatile Chemical Storage in unventilated environmental Chambers	Yes		
5	Containers clearly labeled with Chemical name.	Yes		
6	Storage strictly limited in actively used fume hoods	Yes		
7	Storage strictly limited in actively used fume hoods	yes		
8	Materials with shelf lives dated and disposed of per supplier's recommendations	Yes		
9	Refrigeration Units approved for flammables storage			NA
10	Flammable liquids not stored near hotplates or other ignition sources	Yes		
E	Waste Disposal			
1	Containers were kept sealed except during transfer	Yes		
2	Containers labeled with the words Hazardous Waste		No	
3	Separate disposal containers available for broken glass	Yes		
4	Biological Waste disposal after sterilization	Yes		

F	Ventilation			
1	Local Exhaust	Yes		
2	Fumes hoods used		No	
G	Security			
1	Doors to the lab operate, close and lock properly	Yes		
2	Windows operate, close and lock properly	Yes		
H	Training / Awareness			
1	Workers have attended Laboratory Safety Training	Yes		
2	Workers have attended Emergency Action Plan Training	Yes		
3	Workers have attended Laboratory Security Training		No	
I	Do Laboratory Workers know			
1	What to do in the event of an emergency, such as fire, injury, including evacuation routes	yes		
2	What an MSDS is and where to find them and other safety information		No	
3	What type of personal protective equipment to use and when to use it	Yes		
4	What are the most hazardous materials you use and what precautions to take	Yes		
5	What to do with Chemical waste	Yes		
6	How to Clean up Chemical spills	Yes		

Department of Botany
Laboratory Audit



History:

Year of Establishment: 1987

Name of Programmes Offered: UG: B.Sc

System: Semester and CBCS

Vision:

To discover, maintain and transmit knowledge concerning basic plant biology and provide leadership in the biological science.

Mission:

To apply conventional as well as non-conventional tools to understand plant process, development of human resource with hands on experience in the frontier areas of Plant Sciences.

Scope and Importance:

Plants are an integral part of human life. They are used in various aspects of day to day lives. Botany studies the characteristics and uses of these plants and hence are very important.

The importance of Botany can be understood by the following points:

1. Botany deals with the study of different kinds of plants, its uses and characteristics to influence the fields of science, medicine and cosmetics.
2. Botany is the key to the development of bio-fuels such as biomass and methane gas that are used as alternatives to fossil fuels.
3. Botany is important in the area of economic productivity because it is involved in the study of crops and ideal growing techniques that help farmers increase crop yield.
4. The study of plants is also important in environment protection. The Botanists list the different types of plants present on earth and can sense when the plant populations start declining.

Facility:

1. Practical Laboratory
2. Staff Room
3. Fridge
4. Computer

Faculty Members:

Sr. No	Name of Teacher	Designation	Qualification	Teaching Experience
1	Ms. Sonu	Assistant Professor	M.Sc Botany PG Diploma in Horticulure	NIL
2	Ms. Megha	Assistant Professor	M.Sc Botany, GATE	NIL
3	Ms. Manisha	Assistant Professor	M.Sc Botany, B.Ed, CTET	NIL

Laboratory Equipments:

Sr.No.	Name of Apparatus	Quantity
1	Arc Auxanometer	1
2	Balance	1
3	Camera lucida	1
4	Centrifugal Machine	1
5	Calorimeter E-18 Filter digital	1
6	Cork borer	2
7	Desktop HP	1

8	Dissecting Microscope	20
9	Dropping Bottle	212
10	Boiling Flask flat bottom	Nil
11	Ganong's Light screen	2
12	Germination box	3
13	Heating Mantle	1
14	Humidity Chamber fitted electronic	1
15	High Speed Ultracentrifuge Machine	1
16	Iron stand	10
17	Inoculation Needle/Inoculation Chamber	10+1
18	Clinostat	6
19	Laminar flow	1
20	Marker	Nil
21	Projection Microscope, Microscope Binocular make microskill Tissue culture	1
22	Magnetic stirrer	1
23	Hot air Oven/Universal Model	1
24	Photographic Chamber	1
25	Plant pressure	4
26	Pitcher plant	Nil
27	Root Pressure Apparatus	10
28	Rexin Chart	29
29	Refrigerator	1
30	Scale	10 pcs.
31	Suction Pump with Automizer(Borosil)	12
32	Seed Germination	1
33	Spirit Lamp	22
34	Spatula	10
35	Soil and water testing kit	1
36	Spectrophotometer	1

37	Test tube stand(Plastic)	24
38	Tripod Stand	20
39	Transparency Projection kit	1
40	Tray without Paraffin wax Enamelled	10
41	Wilmott's Bubbler	9
42	Weighing balance	1
43	Wooden rack	12
44	Washing bottle	60
45	Autoclave	1
46	Plastic Embedding of Specimen	13
47	Wire guaze	12

Permanent slides

Sr. No.	Name of Specimen	Quantity
1	Algae Slides	
	1. Chlamydomonas W.M.	3
	2. Vaucheria Vegetative W.M.	1
	Vaucheria Reproductive W.M.	2
	3. Chara w.m	1
	Chara reproductive w.m	2
	Chara sex organs	1
	4. Ulothrix w.m	1
	Ulothrix reproductive w.m	1
	5. Ectocarpus unilocular w.m	3
	Ectocarpus vegetative w.m	1
	Ectocarpus reproductive w.m	1
	Ectocarpus Pluto w.m	3
	6. Nostoc veg. W.m	2
	Nostoc rep. w.m	1
	7. Sargassum thallus t.s.	1
	Sargassum female	1
	V.S.	
	Sargassum axis T.S	1

8. Oedogonium dwarf male w.m	1
Oedogonium veg.	1
Oedogonium holdfast w.m	1
Oedogonium oogonial w.m	1
9. Volvox Daughter colonies w.m	1
Volvox antheridial w.m	2
Volvox W.m	2
10. Polysiphonia veg. w.m	2
Polysiphonia cystocarp W.m	2
Polysiphonia Tetrasporic w.m	2
11. Fucus male conceptacle w.m	1
2 Bacteria slides	
1. Bacteria Bacillus	3
2. Bacteria spirillum	3
3. Bacteria coccus	3
4. Vibrio comma Bacteria	1
3 Pteridophytes slides	
1. Equisetum cone L.S	2
Equisetum cone T.s	2
Equisetum stem t.s	2
Equisetum rhizome T.s	1
2. Marsilia rhizome t.s	1
Marsilia sporocarp t.s	1
Marsilia root t.s	1
Marsilia leaf t.s	1
3. Psilotum stem	1
4. Pteris :T.s. of rhizome	1
Pteris: Fern leaf with sori	2
Pteris: Petiole t.s.	1
Pteris: T.S. of Rachis	1
5. Selaginella plant body	2
Selaginella stem t.s.	3

Selaginella rhizophore t.s.	1
Selaginella root t.s.	2
4 Bryophytes	
1. Marchantia with sporophyte v.s.	4
Marchantia thallus t.s.	2
Marchantia antheridia v.s.	2
Marchantia archegonia v.s. German tech.	2
Marchantia with Gemma cup	3
2. Anthoceros	
Anthoceros sporophyte t.s.	1
Anthoceros thallus v.s. antheridia	1
3. Riccia archegonia	1
Riccia antheridia	1
Riccia thallus v.s.	1
4. Moss archegonia v.s.	2
Moss antheridia v.s.	3
Moss peristome	1
Moss plant w.m(Histology)	1
Moss protonema	1
5. Funaria capsule t.s.	1
Funaria moss archegonia	2
Moss capsule t.s.	1
Moss leaf	1
5 Lichens	
Fruticose Lichen thallus t.s.	1
Crustose Lichen thallus T.S.	1
Foliose Lichen thallus T.s.	1
Lichen Apothecium V.s.	1
Lichen T.S.	2
6 Fungi	
1. Colletotrichum w.m	1
2. Agaricus gills v.s.	1
Agaricus gills L.s.	1

Agaricus pileus L.s.	1
Agaricus pileus T.S.	1
Agaricus pileus V.S.	2
Agaricus button stage V.S.	1
3.Rhizopus cystocarp	1
Rhizopus sexual w.m	1
Rhizopus sporangia	1
4.Puccinia telitiospore v.s.	1
Puccinia Aecidial	1
Puccinia Aecidia on Barberry leaf	1
Puccinia uredio	1
Puccinia Aecidia leaf T.S.	1
5.Phytophthora Host leaf T.S.	3
Phytophthora w.m.	2
Phytophthora sex organs	1
6.Mucor vegetative w.m.	2
Mucor zygosporangia w.m.	1
Mucor sporangia w.m.	3
7. Fungi yeast budding	1
8.Cercospora w.m.	1
9. Penicillium w.m.	3
Penicillium vegetative	1
Penicillium conidia w.m.	2
7 Gymnosperms	
1. Cycas Female cone v.s.	2
Cycas leaflet T.s.	2
Cycas Female cone	2
Cycas Rachis t.s.	2
Cycas T.S. of old roots	3
Cycas Normal root T.S.	1
Cycas Corraloid root T.S.	3
Cycas microsporophyll t.s.	2
2.Pinus	
Pinus male cone	3

Pinus female cone	1
Pinus stem T.s.	2
Pinus stem T.L.S.	1
Pinus stem R.L.S.	1
Pinus wood L.S.	1
Pinus root T.s.	1
Pinus leaf T.S. of Needle	1
Pinus seed V.S.	1
3.Ephedra cone male T.S.	2
Ephedra Root t.s.	1
Ephedra stem t.s.	2
Ephedra female cone L.S.	2
8 Mitosis and Meiosis slides	
1. Mitosis	1
Prophase	1
Metaphase	1
Anaphase	
Telophase	1
Interphase(Mitosis)	1
2. Meiosis-1	
Prophase -1	1
Leptotene	1
Zygotene	1
Pachytene	
Diplotene	1
Diakinesis	1
Metaphase-1	1
Anaphase-1	1
Telophase-1	1
3. Meiosis-2	
Anaphase -2	1
Metaphase-2	1
Telophase-2	1
4.Meiosis- Resting nucleus	1

9 Tissues slides

Aerenchyma	2
Xylem tissue (Angiosperms)	2
Phloem tissue(Angiosperms)	2
Angiosperms:Collenchyma tissue	2
Angiosperms:Parenchyma tissue	2
Angiosperms:Sclerenchyma tissue	2
Onion root tip L.S.	2
Onion root tip V.S.	1
Onion stem tip L.S.	1
Leaf Stomata w.m.	1
Calotropis stem T.S.	1
Embryology:Capsella quadrant stage L.S.	1
Capsella globular proembryo	1
Capsella mature embryo	1
Capsella cotyledons differentiating	1
Capsella octant stage	1
Capsella bending cotyledons	1
Capsella precotyledons stage	1
T.S. of anther with pollen grains	1
Anther T.S.	1
T.S. of anther showing mass of parenchymatous cell	1
T.S. of anther showing Archesporial cell	1
Monocot Root t.s.	1
Monocot leaf T.s.	2
Dicot root t.s.	2
Stem apex L.s.	1
Dicot leaf t.s.	2
Monocot stem T.s.	1
Maize Root t.s.	1
Stone cells T.s.	1

Dicot stem T.s.	2
Dracaena stem T.s.	1
Boerhaavia stem T.s.	1
Nerium Leaf T.s.	1
Vallisneria stem t.s.	1
Hydrilla root t.s.	1
Trapa stem t.s.	1
Hydrilla stem apex	1
Acyranthus stem	1
Casurina stem T.S.	1
Begonia stem t.s.	1

BOTANY LABORATORY – MAJOR EQUIPMENTS:





Laboratory Audit and Check List:

Sr.No	Topic	Yes	No	NA
A	General work Environment			
1	Work Area and Design	Yes		
2	Means available to reach items stored at shoulder level			NA
3	Adequate Free Space	Yes		
B	Exit			
1	Required Visible Signs	Yes		
2	Path free from obstacles	Yes		
3	Alternate Exit Available	Yes		
C	Emergency Planning			
1	Fire Extinguisher mounted near Doorway	Yes		
2	Fire Extinguisher Fully Charged	Yes		
3	First Aid Box	Yes		
4	Emergency gas and Electricity shut-off	Yes		
D	Chemical Storage			
1	Refrigeration units for Chemical Storage labeled No Food		No	
2	No Volatile Chemical storage in unventilated environment chambers.		No	
3	Containers clearly labeled with chemical name	Yes		
E	Waste Disposal			
1	Containers kept sealed except during Transfer	Yes		
2	Separate disposal containers available fir broken glass	Yes		
3	Biological Waste Disposal alter	Yes		
F	Ventilation			
1	Proper Ventilation	Yes		
2	Working area properly illuminated	Yes		

G	Security			
1	Doors to the lab operate, close and lock properly.	Yes		
2	Windows Operate, Close and lock Properly	Yes		
H	Training/ Awareness			
1	Workers have attended Laboratory Safety Training	Yes		
I	Do Laboratory workers Know			
1	What to do in the event of Emergency, such as fire, injury, including evacuation routes.	Yes		
2	How to clean up Chemicals spills	Yes		

Department of Physics

Laboratory Audit



History:

Year of Establishment: 1987

Name of Programmes Offered: UG: B.Sc

System: Semester and CBCS

Vision:

To establish a platform for the dissemination and creation of knowledge through teaching and research in Physics at various levels.

Mission:

To set high standards of comprehensive education by developing the intellectual strength of students and guiding them towards Scientific and technical excellence.

Scope and Importance:

Physics is the study of energy, matter, and their interactions. It's a very broad field because it is concerned with matter and energy at all levels—from the most fundamental particles of matter to the entire universe. Some people would even argue that physics is the study of everything! Important concepts in physics include motion, forces such as magnetism and gravity, and forms of energy such as light, sound, and electrical energy.

Physics helps us to understand the world around us, find quantitative physical laws for everything, bring a broad perspective to any problem and satisfy our curiosity. Physics is one of the oldest and most complex sciences because it is related to the rest of the other sciences. Physics studies everything that takes place in the universe, including particles, natural phenomena and energy, and their relationship to each other. Physics is characterized by precision, which motivates

scientists always to invent new tools and methods that take care of the accuracy and results of physical experiments.

There are many branches of physics, the most important of which are classical physics, modern physics, nuclear physics, atomic physics, molecular physics, biophysics, mechanical physics (mechanics), geophysics, astrophysics, acoustics, and each of these branches includes its own physical definitions and laws.

Facility:

- Practical Laboratory – 02
- Computer – 5
- Projector and Screen – 01
- Vislizer –OHP – 01
- Staff Room – 01
- Electric Dias-01
- Internet Facility -01
- Window AC – 01
- DVR and Stand – 01

Faculty Members:

Sr.No.	Name of the Teacher	Designation	Qualification	Experience
1	Mrs. Neelam Gupta	Associate Professor	M.Sc Physics (Gold Medalist from Rhotak)	34
2	Dr. Nisha Rani	Assistant Professor	M.Sc Physics, M.phil, PHd	13
3	Dr. Indu Vashistha	Assistant Professor	M.Sc Physics, PHd	7
4	Dr. Ankita Guota	Assistant Professor	M.Sc Physics, PHd	Nil

5	Ms. Sujata Soperna	Assistant Professor	M.Sc Physics (Gold Medalist from CBLU, Bhiwani)	Nil
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Laboratory Equipments:

Sr. no	Items	Qty
1	Tooision Pendulum	8
2	Measuring Tape-15 mbr.	2
3	Step down Transfarmar for sonomeper	4
4	Benoling of Beam app.	2
5	Searls rigidity app with stand	2
6	Kiscosity by capillary method	4
7	Photo-Voltic cell app	4
8	Prism assembly complet set	5
9	Micro meter Screw guage	12
10	Reading Telescope with stand	10
11	Wienghing Balance(Top pen)	1
12	Needle stand	15
13	Kniferdge for Bar Pendulum	7
14	Microscope	10
15	Sextant with stand	6
16	Polari meter, hafe shade	2
17	Newton Ring app.	4
18	Spirit level	5
19	Photo meter	2
20	Transfarmar for sodium camp,	2

21	Hall effect comput set	2
22	e/m by phomsoned method	4
23	Four prob method app.	3
24	Laser diode.5mm	2
25	Greating Holder for caser	2
26	Diode cheractor stictic	3
27	Semi conductor	5
28	L.C.R Impidance of A.C Circuit	2
29	High Resistance by subtituet method	7
30	Transister character stictics-C.B	6
31	Study of L.C.R series & parllel	1
32	Voltage double & Tripler circuit	4
33	R.C Coupled amplifier	8
34	Standy of Hartly oscillator	6
35	Battery eliminator	5
36	Transformer	3
37	Am meter(DC) (0-100ma)(0-100ma)	2
38	Spectrometer	10
39	Ultra sonic wave by grang for spectore meter	1
40	Common base Amplifire	3
41	Common emeter Amplifire	3
42	Bio-Prism only (50x40mm)	
43	Wire mount for diff raction purpose	3
44	Varbnier caliper	3
45	Screw gugge	7

46	Sphrameber	9
47	Hafe meter rods	3
48	Weight Box (100gm)	3
49	Convex lance	7
50	Plumb lines Brass	2
51	meter Rods(Scale)	6
52	Slotted wait Bross	6
53	Resistance Box, 5000 r	7
54	G. clamps	12
55	Sloted wait 1/2 kg	8
56	Magnet 1/3	6
57	one way key	10
58	Rising table (Surface tension)	3
59	Table Balance	1
60	DC. Galvne meter (30-0-30)	10
61	Iron stand	14
62	Sonometer theeek wood, with stand wire	4
63	Sextand stand	1
64	More well needles	5
65	optical bench double brass pipe	4
66	Resistance box 1 to 100r	3
67	Fly wheel	4
68	Nodal slide Assambly without	2
69	Optical banch	
70	Meles app. Set	3
71	Dc an meter 100mm.50ma	1
72	Series and Parlled resorance Circuits	2
73	L.B photo metre	6
74	Solar cell	7

75	Corona ring app.	2
76	Micro am meter dc(0-200 ua, 200nm)	1
77	Volt metre DC (0-30v) Ac vo-20 (0-10v)	2
78	C.R.O connections	1
79	Ultra sonic diffraction Speetrameter per velocity	2
80	B/H curil app.	3
81	Laptop	1
82	Caramic steel writing cum Projection Board with stand	1
83	PNFU board lite software	1
84	Visualizer	1
85	Thermometer 110x1C	2
86	Jagger,s app.	6
87	White Plate with slits dream	1
88	Eye pic	10
89	Mercury lamp.	4
90	Sodium lamp.	3

Photo Gallery:





Laboratory Audit and Check List:

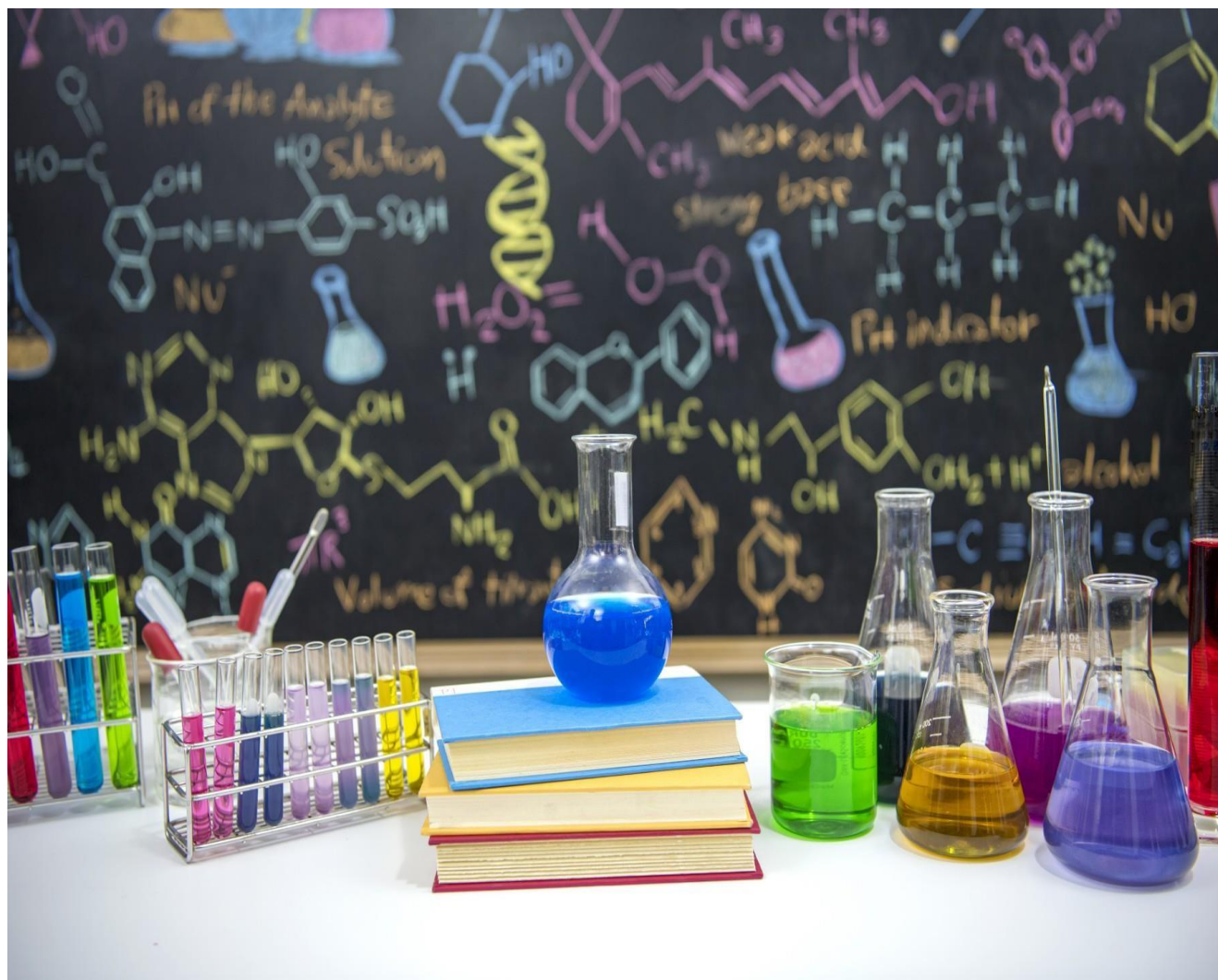
Sr.No	Topic	Yes	No	NA
A	General Work And Environment			
1	Work Area and Design	Yes		
2	Lab Manual	Yes		
3	Means available to reach items stored at shoulder level.	Yes		
4	Emergency Action Plan	Yes		
5	Material Safety Data Sheets	Yes		

	(MSDS) readily Accessible			
6	Chemical Hygiene Plan available in Lab	Yes		
7	Aprons/ Protective measures available		No	
B	Exit			
1	Required Visible Signs	Yes		
2	Path free from obstacles	Yes		
C	Emergency Planning			
1	Fire Extinguisher mounted near doorway	Yes		
2	First Aid Box	Yes		
3	Emergency gas and Electricity shut-off	Yes		
D	Waste Disposal			
1	Containers kept sealed except during transfer	Yes		
2	Containers labeled with the words Hazardous Waste		No	
3	Separate disposal containers available fir broken glass	Yes		
E	Ventilation			
1	Local Exhaust	Yes		
F	Security			
1	Doors to the lab operate, close and lock properly	Yes		
2	Windows operate, close and lock properly	Yes		
G	Training/ Awareness			
1	Workers have attended Laboratory Safety Training	Yes		
2	Workers have attended Emergency Action Plan Training	Yes		

3	Workers have attended Laboratory Security Training	Yes		
H	Do Laboratory workers know			
1	What to do in the event of an emergency, such as fire, injury, including evacuation routes.	Yes		
2	What an MSDS is and where to find them and other safety information		No	
3	What type of personal protective equipment to use and when to use it	Yes		
4	What are the most hazardous materials you use and what precautions to take	Yes		

Department of Chemistry

Laboratory Audit



History

- Year of Establishments: 1987
- Name of Programmes Offered: UG: B.Sc
- Pattern: UG –Semester & CBCS

Vision:

To build foundation for excellence and spur development of the Institution as a premier Institution, by igniting and nurturing enthusiasm, interests and passion, in the study of chemistry, in professional courses, as a part of curricula

Mission:

1. To create and maintain the programs of excellence in the areas of research, education and public outreach.
2. To promote, inspire and nurture the fundamentals of chemistry through UG courses offered for the basic sciences, applied sciences students.
3. To offer research projects with high emphasis on concept-theory-practical training to build up research interest for the transformation of budding chemists into productive scientists, excellent teachers, entrepreneurs and innovative independent researchers.

4. **Scope and Importance:**

It is determined by the extent up to which properties, structures and application of different matters are investigated for learning. New thoughts are sought day by day and the field of learning chemistry is expanded. Being the scope vast and diverse, chemistry is studied by classifying it into different branches as:

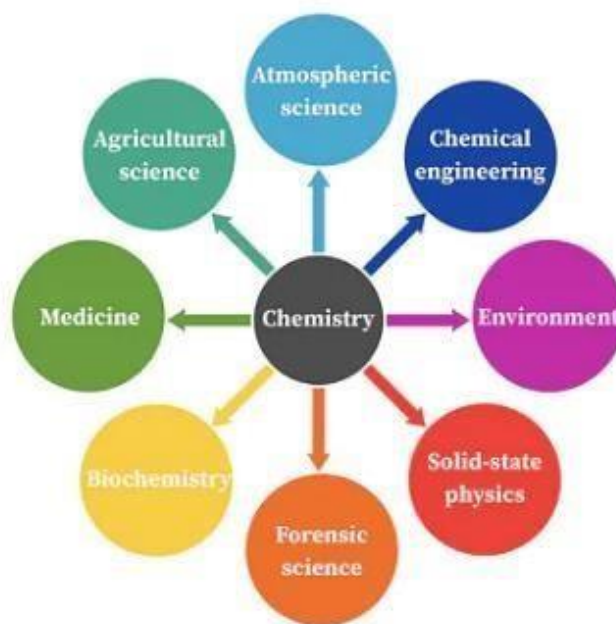
- ⇒ Physical Chemistry
- ⇒ Inorganic Chemistry
- ⇒ Organic Chemistry
- ⇒ Biochemistry
- ⇒ Environmental Chemistry

- ⇒ Industrial and applied Chemistry
- ⇒ Analytical Chemistry, etc.

* Importance of chemistry

Life is made of chemicals and without chemicals we can't breathe, eat and show activity in society. It means to say chemistry has contributed much to improve the life of human beings. In fact science shapes life, it has offered services through:

- ⇒ production of many commodities such as papers, glass, cements, oils, etc.
- ⇒ synthesis of camphor, cocaine, plant pigments and red coloring matter of blood, etc.
- ⇒ development of other sciences such as physiology, geology and agriculture.
- ⇒ examination of crimes and frauds and limiting improper exploitation of chemical discoveries.
- ⇒ invention and production of medicines, high explosives, rocket fuels, poison gases. The science of chemistry goes a great way to build a sound national economy by proper utilization of natural resources of a country which now form the integral parts of modern life.



Facility:

1. Practical Laboratory
2. Staff Room
3. Fridge
4. Computer

Faculty Members:

S.No	Name of Teacher	Designation	Qualification	Experience
1	Mrs. Rachna Arora	Associate Professor	M.Sc M.Phil	33
2	Mrs. Vinita Batra	Associate Professor	M.Sc	30
3	Dr. Ritika Chaudhary	Assistant Professor	M.Sc, Ph.d	6
4	Mrs. Vidhushi	Assistant Professor	M.Sc, PhD (Pursing)	5
5	Ms. Seema	Assistant Professor	M.Sc, Net	2
6	Ms. Pooja Sharma	Assistant Professor	M.Sc	Nil

Laboratory

Equipments:

List of Chemicals:

Sr.No	Chemicals	Quantity
1	Aluminium Chloride Ammonium	500 g
2	Thiocyanate	2x500g
3	Aluminium nitrate	500g
4	Ammonium Nitrate	2x500g

5	Aluminium sulphate	500g
6	Ammonium acetate	2x500g
7	Ammonium iodide	100 g
8	Ammonium bromide	500g
	Diammonium hydrogen	
9	Phosphate	2x500g
10	Ammonium molybdate	100g
11	Ammonium sulphate	500g
12	Ammonia liquor	3x2.5 litre
13	Ammonium carbonate	500x250g
14	Ammonium chloride	500gx250g
15	Ammonium oxalate	250g
16	Antimony trioxide	250g
	Ammonium	
17	Thiosulphate	1b.g
18	Alizarine	25g
19	Acetic acid	3x2.5 litre
20	Acetone	2x2.5 litre
21	Activated charcoal	2x500g
22	Aniline	500 ml
23	Acetaminophen	500g
24	Acetanilide	500g
25	Ammonium persulfate	2x5g
26	Amyl alcohol	2x500ml
27	Aspirin	500g
28	Aluminium oxide	500g
29	L-Alanine	Nil
30	D-Alanine	25g
31	Benzyl chloride	500ml
32	Baniam chloride	2x500g
33	n-butanol	3x500ml
34	Barium nitrate	500g
35	Barium carbonate	500x250g
36	Bleaching Powder	500g
37	Benzyl alcohol	3x500ml

	S-Benzyliso thiouronium	
38	Chloride	4x25g+100g
39	Blue litness solution	Nil
40	Benzene	2x2.5 litre
41	Bromine liguid	300ml
42	Benzoil aid	2x500g
43	Benomide	2x500g
44	Bromoform	2x250ml
45	Benzalohyde	2x500ml
46	Benzotl cholomide	500x250ml
47	Bismuth carbonate	4x100g
48	Benzophenone	500x1250g
49	Berium sulphate	500x1250g
50	Barfoed reagent	4x125ml
51	Bendicts reagent	500x250ml
52	Benzanilide	100g
53	D. Bromoacctanilide	3x100g
54	Camphor	400g
55	Chlorosenzene	500ml
56	Calcium carbonate	500x250g
57	Calcium oxide	5X500g
58	Calcium nitrate	500g
59	Calcium chloride	500g
60	Calcium idic	500g
61	Cadmium carbonate	2x100g
62	Calcium hydroxide	500gx250g
63	Cadmium chloride	2x100g
64	Cobalt chloride	400g
65	Cobalt nitrate	2x100g
66	Cadmium sulphate	500x100g
67	Copper carbonate	2x500x250g
68	Chlorine water	500ml
69	Copper chloride	2x500g
70	Copper sulphate	500g
71	Copper turnings	2x500g

72	Copper nitrate	500g
73	Calcon	100g
74	Carbon disulphide	2x500g
75	Carbon tetrachloride	7x500ml
76	Chlonoform	2x2.5 litre
77	Cericammonium nitrate	Xlil
78	Cadmium nitrate	500g
79	Cinnamic acid	500g
80	Cadmium iodide	100g
81	Cyclohexane	3x500ml
82	Lithizone	5g
83	Qimethy eglyoxime	100x50g
84	Dipbraylamine	400g

Apparatus List:

<u>Sr.No</u>	Name of article	Quantity
1	Adaptor for crucible	24
2	Burette (50ml)	25
3	Beaker (100ml)	11
4	Beaker (250)	23
5	Beaker (500)	20
6	Beaker (1000ml)	3
7	Burette brush	12
8	Beahive Shelf	11
9	Buchner Funnel	13

10	Beaker (10ml)		25
11	Beaker (25ml)		25
12	Bark Cork		60
13	China Dish		36
14	Conical flask (250ml)		17
15	Capillary tube	6 pkt	
16	Charcoal blocks		72
17	Conical flask (100ml)		25
18	Chromatography sheet		20
19	Conductivity Cell		5
20	Clay Pipe triangle		25
21	Centrifugal tube		49
22	Conical flask (10ml)		22
23	Conical flask (25ml)		24
24	Coupling Jar		22
25	Copper wire	5mm	
26	Copper plate		2
27	Calomal electrode for potantiometer		2

28	Combination pH electrode	3
29	Dropper	30
30	Dessicator	17
31	Dessicator Plate	12
32	Dilatometer	10
33	Euoliometer Tube	6
34	Filter Paper	1 Pkt
35	Funnel (3")	5
36	Funnel (2.5")	23
37	Filter Pump	20
38	Flask filtering (500 ml)	4
39	Flask filtering (250ml)	10
40	Gas jar	21
41	glass tubing	1/2 Kg
42	Glass rodding	4 Kg
43	Gas absorption pipette	23
44	Gloves acid proof	7 pair
45	Gas pipe & clip (LPG)	20m+ 50 clip

46	Hard glass test tube	78
47	Hoffmann,s bottle	4
48	Ignition Tube	9.5 Pkt
49	Measuring flask (500ml)	6
50	Measuring flask (250 ml)	22
51	Measuring flask (1000ml)	5
52	Measuring Cylinder (100ml)	2
53	Measuring Cylinder (25ml)	8
54	Measuring flask (100ml)	24
55	Measuring Cylinder (10ml)	10
56	Measuring Cylinder (500ml)	1
57	Ostwald Viscometer	22
58	Pipette (20 ml)	30
59	Pestal + Mortar	4
60	Pipette graduated (10ml)	17
61	Pipette (10ml)	24
62	Pipette (25ml)	23
63	Porus Plate	26

64	Pyknometer	24
65	Platinum wire	1
66	Reagent bottle (125ml) N.M.	188
67	Reagent bottle (250ml) N.M.	26
68	Reagent bottle (125ml) W.M	42
69	Round bottomed flask (250ml)	23
70	Rubber Cork	220
71	Rubber Tubing	2 coil
72	Reflux Condenser	28
73	Rubber collar	18
74	Separating funnel	23
75	Sintered glass Crucible (g-3)	21
76	Sintered glass crucible (g-4)	22
77	Sprayer for Chromatography	2
78	Silica Crucible (25ml)	20
79	Stalgamometer	25
80	Semi microtube	150
81	Slioles	2

88	Test tube	696
82	Steam distillation assembly	11
83	Sodium lamp with transformer	2
84	Thiels tube	9
85	Test tube brush	28
86	Thermometer (360)	20
87	Thermometer (110)	30
89	Trough	6
90	Thistle funnel	16
91	Victor meyer,s apparatus	2
92	Watch glass	49
93	Woulf bottle	7
94	Weighing bottle	24
95	Winchester bottle (2 litre)	3
96	Winchester bottle (3 litre)	3
97	Winchester bottle (5 litre)	3
98	Zinc rod	2

Apparatus List:

Sr.No.	Name of apparatus	Quantity
1	Analytical Balance	12
2	Atomic Model set	1
3	Abb's refractometer	4
4	Blow pipe	12
5	Barrenger	1
6	Bunsen bunner	27
7	Cork borer set	3
8	Clamp with boss head	49
9	Clamp fisher type	34
10	Conductivity bridge	7
11	Centrifugation machine	2
12	Colorimeter	3
13	Dust bins	1
14	Drier	1
15	Digital balance	1
16	Extension board	2
17	File	2
18	Farnece	1
19	Four way stop cock	12
20	Galvanometer	2
21	Gas Cylinder	2
22	Hot plate	7
23	Holder for semi micro test tube	24
24	Heating mantle	6
25	Hoffman's screw clip	20
26	Iron stand	30

27	Kipp's apparatus	2
28	Magnetic Stirrer	1
29	Melting point apparatus	1
30	Notice board	1
31	Oven	2
32	Office revolving chair	1
33	Office Visitor Chair	5
34	Polythene bottle	24
35	Periodic table chart	1
36	Pinch clip screw type	24
37	Potentiometer	2
38	Ph Meter	3
39	Polarimeter	2
40	Platinum electrode	2
41	Ring for funnel	21
42	Refrigrator	1
43	Spirit lamps	18
44	Stools	20
45	Spatula	32
46	Sand bath	21
47	Suction pump	2
48	Shaking machine	2
49	Slide projector	1
50	Stop clock	12
51	Test tube stand	26
52	Tong	24
53	Thistle funnel top	12
54	Tripod stand	37

55	Test tube holder	28
56	TLC apparatus	1
57	Weight box	10
58	Wire gauge	41
59	Wash bottle	28
60	Water steel distiller	1
61	Water bath (Copper)	24
62	Water bath (double hold)	3
63	Wooden stand for semi micro test tube	24
64	Water deionizer	1

Photo Gallery:



Laboratory Audit and Check List:

Sr.No.	Topic	Yes	No	NA
A	General Work Environment			
1	Work area and Design	Yes		
2	Lab Manual	Yes		
3	Means available to reach items stored at shoulder level	Yes		
4	Emergency Action Plan	Yes		
5	Material Safety Data Sheets (MSDS) readily accessible	Yes		
6	Chemical Hygiene Plan available in Lab	Yes		
7	Aprons/ protective measures available	Yes		
8	Ice making machines posted not for human consumption	Yes		
B	Exit			
1	Required Visible Signs	Yes		
2	Path free from obstacle	Yes		
3	Alternate Exit Available	Yes		
C	Emergency Planning			
1	Fire extinguisher mounted near doorway	Yes		
2	Fire Extinguisher fully charged	Yes		
3	Fire Extinguisher tamper indicator in place	Yes		
4	Fire Extinguisher inspected	Yes		
5	Shower	Yes		
6	First Aid Box	Yes		
7	Emergency gas and Electricity shut-off	Yes		
D	Chemical Storage			

1	Refrigeration Units for Chemical Storage labeled No Food	Yes		
2	Refrigeration units for food labeled Food only			NA
3	Chemical Storage Cabinets properly Labeled	Yes		
4	No Volatile Chemical Storage in unventilated environmental Chambers		No	
5	Containers Clearly labeled with Chemical name	Yes		
6	Storage strictly limited in actively used fume hoods	Yes		
7	Storage strictly limited in actively used fume hoods	Yes		
8	Materials with shelf lives dated and disposed of per supplier's recommendations		No	
9	Refrigeration units approved for flammables storage	Yes		
10	Flammable liquid not stored near hot plates or other ignition sources	Yes		
E	Waste Disposal			
1	Containers kept sealed except during transfer	Yes		
2	Containers labeled with the words Hazardous Waste	Yes		
3	Separate disposal containers available for broken glass	Yes		
F	Ventilation			
1	Local Exhaust	Yes		
2	Fume hoods used	Yes		
G	Security			

1	Doors to the lab operate, close and lock properly	Yes		
2	Windows operate, close and lock properly	Yes		
H	Training / Awareness			
1	Workers have attended Laboratory Safety Training	Yes		
2	Workers have attended Emergency Action Plan Training	Yes		
3	Workers have attended laboratory Security Training	Yes		
I	Do Laboratory Workers Know			
1	What to do in the event of an emergency, such as fire, injury, including evacuation routes	Yes		
2	What an MSDS is and where to find them and other safety information		No	
3	What type of personal protective equipment to use and when to use it	Yes		
4	What are the most hazardous materials you use and what precautions to take			NA
5	What to do with Chemical Waste			NA

Department of Music Vocal

Laboratory Audit



History:

- Year of Establishment : 1970
- Names of Programmes Offered: B.A. (Music Vocal)
- Pattern : UG Semester & CbCS

Vision:

To provide a professional education for music majors that develop, nurtures, and assures their competency in all aspects of the discipline.

Mission:

To encourage development of the creative, intuitive, and intellectual capabilities of students, faculty, and audience.

Scope and Importance:

Music is a form of art which can express any human emotion, blend with the rhythm and tune harmoniously to express the hidden talent. Since, the dawn of civilization, music has been considered as an inborn talent of the man, which can be vocal and instrumental. Music is sung or played for self-expression, self-satisfaction, offering worship and entertaining others. The instrumental music refers to the music produced by instruments like guitar sarod, sitar, piano, keyboard, tabla, flute, violin etc.

Infrastructure Details:

Practical Lab: 01

Alimira: 01

Chair: 01

Table

Faculty Members:

Sr.No	Name of Teachers	Designation	Qualification	Teaching Experience
1	Ms. Nikita	Assistant Professor	M.A. (Music Vocal)	2 years

Laboratory Equipments:

Sr.No	Equipment Name	Quantity
1	Harmoniums	7
2	Tanpura	12
3	Chattu	5
4	Dugga	5
5	Santoor	1 with box
6	Swar Mandal	1 with box
7	Jhika	1
8	Miracas	2
9	Khanjri	1 Ps
10	Dolak	2
11	Tape recorder	3
12	Cassettes	4
13	Records	13 Ps
14	Dari, Matress, Doormate	Dari 2
15	Bed Sheets	1
16	Tanpura Box	2
17	Marmonium Box	4
18	Box	1
19	Nal	1
20	Gopi chand	2
21	Tabla bags	2
22	Portrait	3
23	Lock	3
24	Key Ring	1
25	Agarbati Stand	2 Ps

26	Brush	1
27	Pedestal Fan	1
28	Curtains	2
29	Tabla Hammer	1
30	Duhatta	8
31	Bag	1Tabla 1 Harmonium
32	Floormat	1
	Matress	1
	Bed sheet	1
	Carpet	2
	Masand Cover	2
	Door Mat	1

Photo Gallery:



Department of Music Instrument: Laboratory Audit



History:

- Year of Establishment : 1970
- Names of Programmes offered: B.A (Music Instrument)
- Pattern : UG-Semester & CBCS

Vision:

Our vision is built on our belief that music learning works best when young people are making music, and when their existing passion for music is reflected and built-upon in the classroom. We want to help more young people to be able to access music making and encourage them to keep playing more music and for longer.

Mission:

To develop in the student an understanding and appreciation of the various types, styles, and forms of music which can be beneficial during an entire lifetime.

Scope and Importance:

Music is a natural form of expression in the development of children and should be an integral part of the school curriculum from preschool throughout high school. The music program has aesthetic, creative, cultural, and academic values that complete and further the educational and social values of a quality education. The school is responsible for helping all children understand and enjoy music. It should assist in discovering and nurturing musical talent. Every child should have the opportunity to develop their potentiality for musical expression through exploration, experimentation, exposure, and enrichment. The study and playing of a musical instrument and vocal training, whether alone or in a group, offers the young person a lifelong enjoyment and appreciation of music. This might

be attained through creating, performing, or eventually, just as an educated listener. The pursuance of music, one of the Fine Arts, leads to deeper understanding and love for the other Fine Arts. This ability to value the aesthetic to a higher degree raises the joy of living and offers the person a foundation to become happy, well-adjusted, and useful cooperative citizen.

Infrastructure Details:

- Practical Lab: 03
- Alumina: 03(Wooden)
- Table: 01
- Chair (Wooden): 02
- Stool: 07

Faculty Members:

Sr.No.	Name of Teacher	Designation	Qualification	Teaching Experience
1	Mrs. Manju Jain	Assistant Professor	M.A. (Music Instrument)	8 years

Laboratory Equipments:

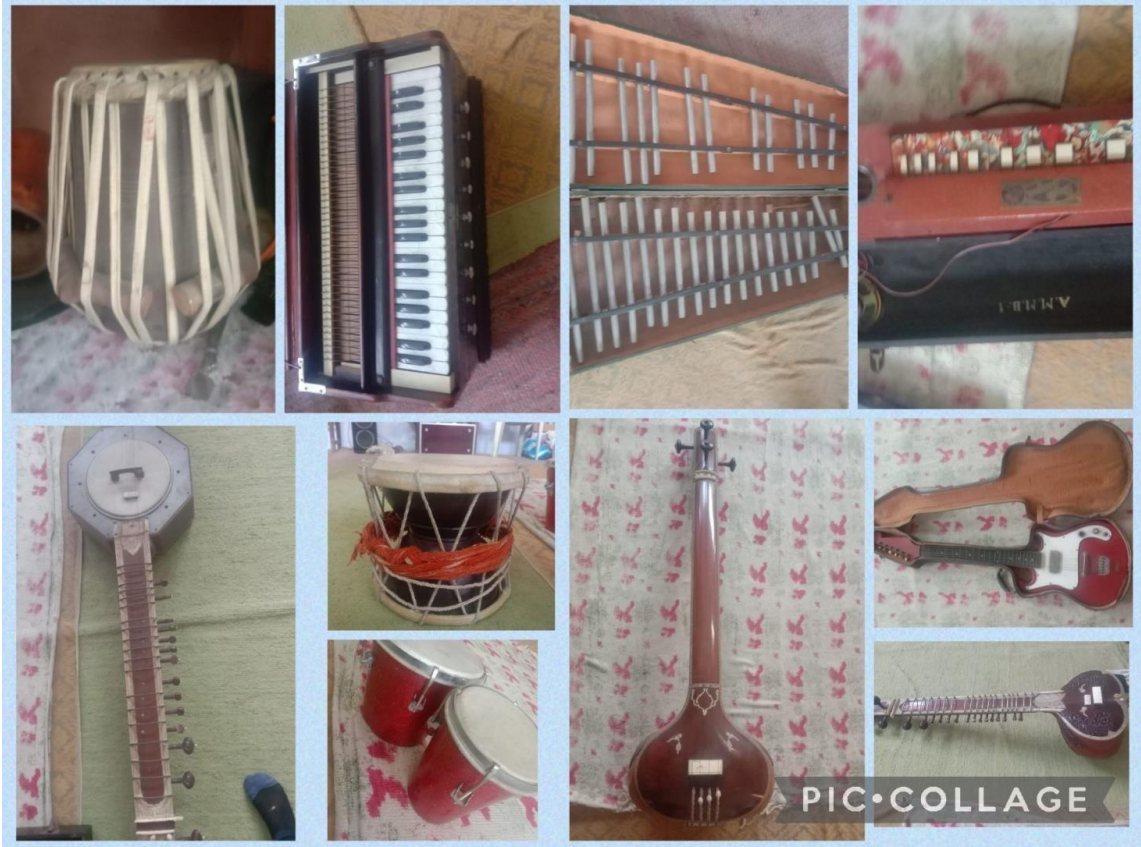
Sr No.	Equipment Name	Balance
1	Sitar	30
2	Boxes of sitar	5
3	Guitar	3
4	Violon with cover	1
5	Harmonium	2
6	Banjo	4
7	Tabla	6
8	Tanpura	1

9	Mridana	1
10	Tabla Hammer	2
11	Manjiras	1
12	Emply box (Raymond's)	1
13	Jal Tarana	
14	Jhanj Brass with stand	1
15	Fluts	6
16	Bongo	1
17	Dilruba	1
18	Cutter plan	1
19	Madhurveena	1
20	Tabla Ring	3
21	Nal Tarana	1
22	Portrait	2
23	Records	3
24	Drum bealier	
25	Plate Tarang	1
26	Matress cover	1
27	Locks	8
28	Scissor	1
29	Foot Pad	1
30	Ghungru	1 Pair
31	Sur mandal	1
32	Tabla Bag	1
33	Ampilifier	2
34	Khangaree	2
35	Mirakas	1
36	Nal	1
37	Dholak	1
38	Speaker system	2
39	Drugged	1
40	Dari	2
41	Taat patti	4

42	Cloth for stage cover	1
43	Daff	1
44	Flre chong(Khanjree orange colour)	
45	Hand tal	1
46	Bed cover	3
47	Bucket for jal tarang	1
48	Deck(Casset player)	1
49	Cassalic player	1
50	Plastic cover	2
51	Deru	1
52	Tumba	1
53	Magic sing ET-19 KV	1
54	Banjo Electric with Emplifier	1
55	Dupatta	10
56	Curtain	2
57	Bagjor sitar, Tabla & Harmonium	3
58	Door mat	1

Photo Gallery:





Home Science Department

Laboratory Audit

HOME SCIENCE



History:

- Year of Establishments: 1970
- Name of Programmes Offered: B.A. (Home Science)
- System: UG –semester & CBCS

Vision:

- To develop the Human Resource in the field of Nutrition and Dietetics , Food science, Extension Education, Textiles and laundry Science, Child development, Family resource management and Community nutrition .
- To develop the department a Center of Excellence in the field of Home Science.

Mission:

1. To empower and develop an appreciation for rural life in a holistic manner.
2. To achieve an efficient use of human and non human resources in everyday living.

Scope and Importance:

Home Science is a dynamic and ever-growing subject having maximum practical application throughout our life. The scope of studying Home Science is vast and varied in nature. As it indicates from its branches and significance, the scope of Home Science begins from the conception of the individual till the death, in every stages and aspects of life.

The scope not only confines to preparing the students for a number of professions, rather it prepares the pupils to become well balanced, competent and total human

being first and professional next. The study of Home Science opens avenues for a number of professions, such as teacher ship, researchers, academicians, counselors, dieticians, nurses, designers, interior decorators, consultants, child development workers, nutritionists, social workers etc.

The scope of Home Science education goes beyond preparing the home maker with full professionalism to face the challenges of modern day family life. It is no easier to maintain and manage the peaceful family life, without any preparations and developing the specific skills required.

Faculty Members:

Sr.No.	Name of Teacher	Designation	Qualification	Teaching Experience
1	Ms. Sangeeta Manrow	Associate Professor	M.Phil	22

Laboratory Equipments:

Sr.No.	Item	Quantity
1	Fridge	1
2	Sewing Machine	20
3	Microwave	1
4	Mixie Grinder	3
5	Fire Extinguisher	1
6	R.O.	1
7	Crockery Item	
8	Gas Burner	11

Photo Gallery:



Department of Physical Education

Laboratory Audit



History:

- Year of Establishments: 2007
- Names of Programmes Offered: UG: B.A. Physical Education
- System: Semester & CBCS

Vision:

To create an environment that allows students to understand and to display cooperative social skills, teamwork, peer interaction, leadership, sportsmanship, positive attitude, self-esteem, and enjoyment. The curriculum will create an environment that focuses on current information, technology, and equipment to meet the needs of individual students.

Mission:

The Department of Health Physical Education is dedicated to and focused on the development of the whole student: physical, mental, and intellectual. The department is dedicated to providing a high quality education and career preparation with the idea of excellent teaching being the central to our mission. Our students teach in a variety of settings, including schools, sports arenas, fitness centers, community/public health organizations, physical therapy clinics, and outdoor recreation endeavors.

Scope and importance:

Health Education aims to provide knowledge and skills to empower pupils to lead healthy lifestyles and to take responsibility for the health and well-being of others and the environment. Another key aim for the programme is to provide pupils with the opportunities to develop and practice good health habits and attitudes.

Physical Education aims to provide children and young people with learning experiences that enable them to develop:

1. The knowledge, motivation and competence to live a physically active life.
2. Physically, morally, intellectually and socially within an educational context where pupils are valued and cared.

Facility:

Printer: 01

Table 4'*2': 01

Chair Wooden: 01

Office Wooden Table 4*3*2: 01

Steel Almirah: 01

Wooden Shoe rack: 01

Visiting Chair: 04

Revolving Chair: 01

Faculty Members:

Sr.No.	Name of Teacher	Designation	Qualification	Teaching Experience
1	Ms. Sonam	Assistant Professor		

Laboratory Equipment List:

Sr.No.	Item	Quantity
1	Table Tennis Balls	36
2	Hockey Ball Goal Post	1
3	Starter Clapper	1
4	Cricket Net	1
5	Weight Lifting Belt	1
6	Discur	10
7	Weight Lifting Nelco 135Kg International Olympie Coloured	1
8	Weight Lifting Glelco International Black Rubbcrosed 135 Kg	1
9	Charts	6
10	Weight Lifting Stand	1
11	Sliver Coins	17
12	Cricket Roller	1
13	Pitch Cover	1
14	Hand Ball	10
15	Basket Ball	10
16	Hurdles	10
17	Valley Ball	10
18	Hockey (Wooden)	5
19	Hockey Fiber	5
20	Kabaddi Mat	130
21	Bat	3
22	Victory Stand	1
23	Yoga Stand	1
24	Yoga Mat	6
25	Boxing Kit Bag	1

26	Stop Watch	5
27	Water Campur	1

Department of BCA

Laboratory Audit



BCA

Bachelor of Computer Application

History:

- Year of Establishments: 2000
- Name of Programmes Offered: BCA
- System : UG-Semester & CBCS

Vision:

- To provide the atmosphere for students so they can create employment opportunities for themselves as well as for others.
- To prepare the students for technical training with revolutionary vision who can compete globally.
- To brush up the ethical as well as technical skills in students so that they will become the preferable choice of a prospective employer.

Mission:

- To provide technical education to the students through well-equipped labs
- Giving personal attention to weaker students consequently, allowing them to cope up with other scholars
- To provide a student-friendly environment that is amicable for practical knowledge.
- To implement the professional and communication skills of the students, working deliberately.

Scope and Importance:

With the vast and rapid growth of the internet, digital media channels like facebook, twitter, Instagram, linkedin, etc. have now become one of the new communication channels that allow personal interaction. Computer and mobile applications have played an active role in the digital revolution, especially in the recent years.

All these applications like facebook, twitter, snapchat, etc. are made possible all thanks to coding and programming, which is the language of computers and the digital world.

One of the best ways of learning this language is by enrolling yourself in a full time Bachelor in Computer Application course, in which students are taught about the coding language in detail. Students who opt for this course learn skills and information not only about computer and information technology but also in communication, organization and management.

The opportunities available for a BCA graduate are software programmer, system and network administrator, web designer, etc. The range of chances in Information Technology is immense. Some are creative while others are highly technical.

Facility:

- LED/CPU/KB/Mouse : 02
- Printer: 01
- A.C. : 01
- Tube Light/Fan: 02

Faculty Members:

Sr.No.	Name of Teachers	Designation	Qualification	Teaching Experience
1	Dr. Nutan Sharma	Assistant Professor	MCA, MPhil, PhD	14 Years
2	Dr. Preeti	Assistant Professor	MCA, PhD	8 Years
3	Ms. Garima	Assistant Professor	MCA	5 years
4	Ms. Priyanka	Assistant Professor	MCA	5 months

Laboratory Equipments:

Sr.NO.	Item Name	Quantity
1	LED/CPU/KB/Mouse	20

2	Smart Board	1
3	A.C.	3
4	Fan	6
5	Tube Light	6
6	Printer	1

Photo Gallery:



Printer



Smart Board



LED/CPU/KB/Mouse + A.C

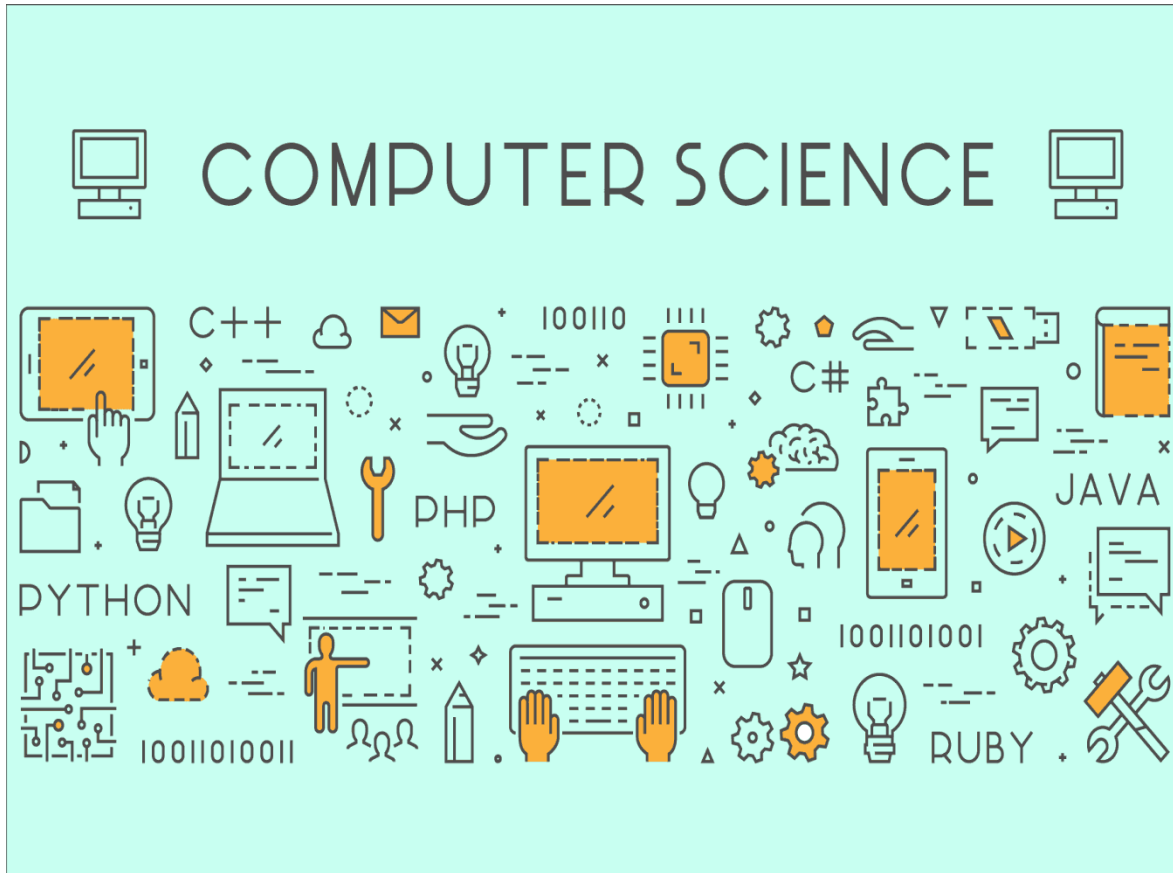


Projecter



Department of B.Sc Computer Science

Laboratory Audit



History:

- Year of Establishments: 2000
- Name of Programmes Offered: B.Sc Computer Science
- System : UG-Semester & CBCS

Vision:

To provide India and the World, technical manpower of the highest academic excellence and World class by shaping our youth through holistic and integrated education of the highest quality

Mission:

- To impart high quality professional training at the undergraduate level with an emphasis on basic principles of computer science and engineering.
- To establish nationally and internationally recognized research centers and expose the students to broad research experience.
- To impart moral and ethical values, and interpersonal skills to the students.
- To empower the students with the required skills to solve the complex technological problems of modern society and also provide them with a framework for promoting collaborative and multidisciplinary activities.

Scope and Importance:

To put it in simple terms, Computer Science is actually the study of computer systems, how they operate and function, its hardware, software, and algorithms for the database. It is concerned with the design, development and applications of computer science across different technologies. There is a vast scope of computer science in the contemporary world as it encompasses varied areas of study like Artificial Intelligence, Network Security, Database Systems, Machine Learning, Programming Languages, Human-Computer Interaction, amongst others.

Now that you are familiar with the salient features of this popular discipline, let's explore the scope of computer science as a career. Computer Science graduates are always in demand across varied sectors like IT companies, business

organisations, research institutes, designing firms, to name a few. Take a look at the major jobs offered in Computer Science

- Software Developer
- Database Administrator
- Hardware Engineers
- Systems Analyst
- Computer Network Architect
- Web Developer
- Information Security Analyst
- Computer and Information Research Scientists
- Computer and Information Systems Manager
- IT Project Manager
- Applications Developer
- Business Intelligence Analyst
- Mobile Applications Developer
- Data Architect
- Quality Assurance Associate / Analyst
- UX Designer
- Information Technology Auditor
- CRM System Analyst
- Project Manager
- Database Developer

Faculty Members:

Sr.No	Name of teachers	Designation	Qualification	Teaching Experience
1	Dr. Deepu Saini	Assistant Professor	M.Sc, Ph.D	12 years
2	Dr. Ritika	Assistant Professor	MCA, Ph.D	1 year

Laboratory Equipments:

Sr.No.	Item Name	Quantity
1	Computer with UPS	20

2	Laptop Hp	02
3	Printer Hp Laser Jet 1005	01
4	Ac with stabilizer	01
5	Smart Board with Stabilizer	01
6	Pen Drive	05
7	Wifi Router	01
8	Camera	01
9	Web Camera	01
10	Boya Mike	02

Photo Gallery:





Laboratory Audit and Check List:

Sr.No	Topic	Yes	NO	NA
A	Space and Layout			
1	Is there enough space to move around safely?	Yes		
2	Can everyone sit at their place comfortably?	yes		
3	Is there enough desk/ bench space for the work & equipment in routine use?	Yes		
4	Is there enough space for Storage	Yes		
5	Is the area clean & free of clutter?	Yes		
B	General work Environment			
1	Is the room temperature comfortable?	Yes		
2	Is there enough fresh air, without draughts?	Yes		
3	Can the windows be opened easily?	Yes		
4	Are windows in clean & safe condition?	Yes		
5	Is lighting adequate in all areas?	Yes		
C	Slips, Trips and Manual Handling			
1	Are floor surfaces, carpets etc. in a safe condition?	Yes		

2	Are floors free of trailing cables, boxes & other trip hazards?		No	
3	Furniture, Fittings & Equipment	Yes		
4	Does the fabric of the room appear sound?	Yes		
5	Are furniture & fittings in good condition?	Yes		
6	Are height adjustable chairs provided for working at desk/ bench ?		No	
7	Is all equipment working properly?	Yes		
8	Are hot, sharp or dangerous moving parts guarded?			NA
9	Are there enough accessible power points overloading sockets?	Yes		
10	Do all electric equipment & cables pass visual inspection?	Yes		
D	Software			
1	Appropriate OS	Yes		
2	MS Office	Yes		
3	C and C++ Compilers	Yes		
4	SQL Database	Yes		
5	Software required for all class students ?	yes		

6	Antivirus Software	Yes		
E	Security			
1	Door to the lab operate, close and lock properly	Yes		
2	Windows operate, close and lock properly	Yes		
F	Do Laboratory workers know			
1	What to do in the event of an emergency, such as short- circuit		NO	
2	How to clean Computers parts ?	Yes		

History:

- Year of Establishments: 2000
- Name of Programmes Offered: B.COM (Computer Application)
- System : UG-Semester & CBCS

Vision:

The Department strives to take the students beyond academics and offers innumerable exposures and opportunities to facilitate them to grow in self-confidence and self-esteem, so that they will be able to face all challenges of life successfully. The entire world has become a small village with the net-work of communication technology. In such a fast changing and dynamic world, it is imperative that the present day youth is prepared for innovation and creativity, leading to excellence in performance and good communicators in building human relationships and promoting potential markets and also learn the art of living. The Teaching program includes Lectures, Guest Lectures, Problem Solving, Group Discussions, Seminar Presentations, Case Study, Mini Research projects, Industrial visits, Inter class competitions etc.

Mission:

- To develop conceptual, technical and human relations skill among the students through formal and informal education.
- To build Industry-specific competencies to match with the requirements of competitive world.
- To shape the personality that balances the needs of professional, social and personal life.
- To train the youth to make them employable.

Scope and Importance:

B.Com in Computer Application graduates can find lot of career opportunities in the field of accounting, banking, marketing, e-commerce, teaching, insurance and stock markets. They can work as Probationary officer, Loan officer or Collection officer in various banks. These graduates can also find lucrative jobs in the software industry. Different job profiles available for these graduates are given below.

Mobile Application Developer

CAD Application Support Technician

Computer Application Specialist

Accounts Assistant

Computer Programmer

Computer Operator

Application Developer

Computer-Laboratory Technician

Clerk-cum- Computer Operator

Auditors

Book Keepers

Budget Analysts

Faculty Members:

Sr.No	Name of Teacher	Designation	Qualification	Teaching Experience
1	Mrs. Neeru Chawla	Associate Professor	M.Com	32 Years
2	Ms. Anita Verma	Associate Professor	M.Com, M.Phill	27 Years
3	Dr. Amita	Associate	M.Com,	32 Years

4	Gaba Ms. Ashima Yadav	Professor Assistant Professor	M.Phil, PhD M.Com, MBA, PGDCA	9 Years
5	Ms. Gyatri Arya	Assistant Professor	MBA, M.Com, MMC, M.Phil	5 Years
6	Ms. Vaishali	Assistant Professor	M.Com, NET	1 Year
7	Dr. Sucheta Soni	Assistant Professor	MCA, PhD	11 Years
8	Ms. Himanshi Jain	Assistant Professor	MCA	5.5 Years
9	Ms. Tamana Saneja	Assistant Professor	M.Com, NET	3.5 Years

Laboratory Equipments:

Sr.No	Name of Equipments	Quantity
1	Desktop PC with (CPU, Keyboard, Mouse, LED, UPS)	17
2	Smart Board	1
3	Printer	2
4	Desktop PC with (CPU Keyboard, Mouse, Monitor)	13

Photo Gallery:



Laboratory Audit and Check List:

Sr.No	Topic	Yes	NO	NA
A	Space and Layout			
1	Is there enough space to move around safely?	Yes		
2	Can everyone sit at their place comfortably?	yes		

3	Is there enough desk/	Yes		
	bench space for the work & equipment in routine use?			
4	Is there enough space for Storage	Yes		
5	Is the area clean & free of clutter?	Yes		
B	General work Environment			
1	Is the room temperature comfortable?	Yes		
2	Is there enough fresh air, without draughts?	Yes		
3	Can the windows be opened easily?	Yes		
4	Are windows in clean & safe condition?	Yes		
5	Is lighting adequate in all areas?	Yes		
C	Slips, Trips and Manual Handling			
1	Are floor surfaces, carpets etc. in a safe condition?	Yes		
2	Are floors free of trailing cables, boxes & other trip hazards?		No	
3	Furniture, Fittings & Equipment	Yes		
4	Does the fabric of the room appear sound?	Yes		

5	Are furniture & fittings in good condition?	Yes		
6	Are height adjustable chairs provided for working at desk/ bench ?		No	
7	Is all equipment working properly?	Yes		
8	Are hot, sharp or dangerous moving parts guarded?			NA
9	Are there enough accessible power points overloading sockets?	Yes		
10	Do all electric equipment & cables pass visual inspection?	Yes		
D	Software			
1	Appropriate OS	Yes		
2	MS Office	Yes		
3	C and C++ Compilers	Yes		
4	SQL Database	Yes		
5	Software required for all class students ?	yes		
6	Antivirus Software	Yes		
E	Security			
1	Door to the lab operate, close and lock properly	Yes		
2	Windows operate, close and lock properly	Yes		

F	Do Laboratory workers know			
1	What to do in the event of an emergency, such as short- circuit		NO	
2	How to clean Computers parts ?	Yes		

History:

- Year of Establishments: 1970
- Name of Programmes Offered: B.A (Psychology)
- System : UG-Semester & CBCS

Vision:

To impart quality education, enhance research programs, updating skills and inculcating values, ethics among students.

Mission:

- Encourage the overall and dynamic personality development of students.
- Develop skilled psychologist and counselors.
- Create awareness about mental health.
- Enhancing the research activities in the department.
- Encourage the overall and dynamic personality development of students.

Scope and Importance:

Psychology, as a discipline, studies human behavior and mental processes from diverse perspectives. It employs scientific methods to understand human perception, learning, emotions and reactions to situations.

Psychology is an interdisciplinary discipline since it shares its boundaries with several other disciplines like social sciences, life sciences and artificial intelligence. Needless to say, the scopes of psychology, as a career, are huge.

A psychologist has a future in diverse fields, including Clinical Psychology, Industrial Psychology and Organization Behavior, School Psychology, Forensic

Psychology, Sports Psychology, Rehabilitation, Cognitive Neuroscience and many more. Moreover, teaching and research in all these assorted fields assure a promising future for the students of psychology.

Scopes and job opportunities in diverse areas of psychology

- **Clinical Psychology/ Rehabilitation and Counselling Psychology:** Work as a Licensed Clinical Psychologist in Government and private hospitals, NGOs, private clinics, freelancers.
- **Industrial Psychology & Organization Behavior:** Work as I/O Psychologist, Consultant at organizations, Selection and recruitment.
- **Forensic Psychology:** Work as a consultant in police departments, crime branches, Defense/army, Legal firms, Investigation Bureau etc.
- **School Psychology:** Work as a School Psychologist at public and private schools, universities, mental health centre's, community-based treatment centers, residential clinics and hospitals, juvenile justice programs, and in private clinics.
- **Sports Psychology:** Work as Sports Psychologist for school/college/university sports teams, professional teams, Sports Rehabilitation Specialist, Sports Research Specialist and Consultants
- **Psychometry:** Work as a Professional Test Developer and Psychometrician for Government and Private Organizations, Consultant and Researcher.

Faculty Members:

Sr.No	Name of Teachers	Designation	Qualification	Teaching Experience
1	Ms. Shailja Girdher	Associate Professor	M.A, m.Phil	34 Years
2	Ms. Tamanna Gupta	Assistant Professor	M.Sc, NET, Pursing Ph.D	3.5 Years
3	Ms. Megha	Assistant Professor	M.Sc, B.Ed	1 Years

Laboratory Equipments:

Sr.No	Item Name	Quantity
1	Alexander pass along test	17

2	Aesthesiometer double mouth	16
3	Auditory ocuity apparatus	1
4	Autokinetic Movement Apparatus	2
5	Blind goggles	24
6	Bhatia's Battery of performance	6
7	Color Discs for the color wheel apparatus	3
8	Card Sorting tray	15
9	Color Preference wheel	8
10	Chin Reset	28
11	Call Bell	25
12	Cup & Ball apparatus	3
13	Caampimeter	4
14	Chromoscope with time Calculator (Electric)	2
15	Color Disc for color Mixture	10
16	Concept formation (Appartus)	4
17	Differential Aptitude Test	1
18	Dear born trangle form board teat	3
19	Depth perception Test	4
20	Electrical Color Wheel apparatus	7
21	Ergograph	2
22	Eleminator	9
23	Electric Board with Buzzer (Bell)	1
24	Ear (Model)	1

25	Finger Mazes	5
26	Face and Vace figures (Experiment of perception)	5
27	Finger Dexterity Test	20
28	Geometrical Figures (Experiment of Perception)	4
29	Human Maze (Mettalic)	2
30	Hair Aesthesiometer (For touch localization)	27
31	Herring's Color papers	4
32	Human Maze (double) Electrical	2
33	Hand Dynamo meter	10
34	Human Body Small Chart	1
35	Impulse Counter (6 volts)	2
36	Judging Emotions from photographs	12
37	Koh Block Design Test	2
38	Kinesthetic Figural After Effect	4
39	Mirror Drawing Apparatus (Mechanical)	8
40	Model Brain	1
41	Masson's Disc on motor (Electric)	1
42	Movable Switch Board	1
43	Memory Drum	10
44	Metronome	4
45	Mc Dougall's Disc	2
46	Muller layer illusion	20
47	Mazes (Plastic)	4

48	Match Stick Problem Box	10
49	Perimeter	7
50	Pneumograph	1
51	Phi- Phenomena	2
52	Re-set Clock	23
53	Reaction Time Appratus	9
54	Stop Watches	18
55	Screen wooden 18" x 21"	16
56	Steadiness Tester	4
57	Screen (Wooden) 12" x 15"	4
58	Seguin form board	2
59	Stylus maze (Wooden)	1
60	Successive Contrast Appratus (After Image)	9
61	Tachistoscope (Fall type)	18
62	Thematic Apperception Test	12
63	Tapping Board	3
64	Two Hand Coordination	4
65	Visual Acuity Chart	7
66	Weight Box	25

Photo Gallery:



Laboratory Safety Training program by Physics Department

IQAC Report

दिनांक 28 फरवरी 2022 को आदर्श महिला महाविद्यालय, भिवानी की आई० एम० ए० सी० द्वारा एक दिवसीय "लैबोरेट्री सेफ्टी ट्रेनिंग प्रोग्राम" का आयोजन किया गया। कार्यक्रम की संयोजिका डॉ० अमिता गाबा एवं कार्यक्रम समन्वयक श्रीमती नीलम गुप्ता के कुशल दिशा निर्देशन में महाविद्यालय की सभी लैब के एसिसटेंट को अग्निशामक यंत्र, प्राथमिक उपचार, कैमिस्ट्री के लैब उपकरणों का रख-रखाव, कैमिकल्स का रख-रखाव, इलेक्ट्रॉनिक उपकरणों का इस्तेमाल व सावधानियों व अन्य सभी संबंधित जानकारियों से अवगत कराया गया। कार्यक्रम का आयोजन डॉ० निशा शर्मा, डॉ० अंकिता गुप्ता, सुश्री पूजा शर्मा आदि के द्वारा किया गया। महाविद्यालय के भौतिकी विभाग, कम्प्यूटर साइंस विभाग, रसायनविज्ञान विभाग, ललित कला विभाग, वाणिज्य विभाग, गृहविज्ञान विभाग, साइकोलोजी विभाग, बॉटनी एवं जोलोजी विभाग, म्यूजिक वोकल एवं इन्स्ट्र्यूमेंटल विभाग एवं स्पोर्ट्स विभाग के सभी लैबोरेट्री एसिसटेंट उपस्थित रहे। कार्यक्रम के आयोजन का प्रमुख उद्देश्य इन सभी को अग्निशामक यंत्रों के इस्तेमाल, प्राथमिक उपचार के तरीकों एवं आपातकालीन स्थिति में क्या करें, इन विषयों का ज्ञान कराना था। इस कार्यक्रम में 13 एसिसटेंट एवं 10 प्राध्यापिकाएँ उपस्थित रहीं।

ADARSH MAHILA MAHAVIDYALAYA, BHIWANI

the attendance of members who had attended the
"country safety training programme" held in 2019/2020.

Non-Teaching Staff Regular

- 1 Sh. Bajrath Singh, Dy. Supdt.
- 2 Sh. Pawan Kumar, I.A.
- 3 Sh. Jai Bhagwan, I.A.
- 4 Sh. Jagoo Nath, Peon
- 5 Sh. Ek Narayan, Orderly
- 6 Sh. Yogender Singh, Chowkidar

Adarsh Shiksha Samiti Staff

- 1 Sh. Vijender Kumar, Clerk
- 2 Sh. A.S. Jain, C.T.
- 3 Sh. Balu Ram, I.A.
- 4 Sh. Shiv Kumar, Peon
- 5 Sh. Sachin, Sweeper

Regular Fund Paid Staff

- 1 Ms. Sonia, Restorer
- 2 Sh. Rajesh Kanshik, I.A.
- 3 Sh. Vishal Mishra, I.A.
- 4 Sh. Manoj Kumar, I.A.
- 5 Ms. Madhu, Sweeper
- 6 Sh. Shankar, Mali
- 7 Sh. Rameshwar, Mali
- 8 Sh. Sumil, Chowkidar
- 9 Ms. Saroj, Sweeper
- 10 Sh. Ram Sarup, Sports Peon
- 11 Sh. Ram Tirath, Mali

Hostel Staff (on contract basis)

- 1 Ms. Anita, Warden
- 2 Ms. Babita, Sweeper

Non-Teaching Staff (on contract basis)

- 1 Sh. Manish Kumar, Clerk
- 2 Sh. Nikhil, Clerk
- 3 Sh. Gopal Gupta, Clerk
- 4 Ms. Vandana, Clerk
- 5 Ms. Sumita, Clerk
- 6 Sh. Sonu, Accounts Asst. P.T.
- 7 Sh. Rohan Verma, Comp. Operator
- 8 Ms. Sanju, Comp. Operator
- 9 Sh. Parman Singh, Junior Engineer
- 10 Ms. Eiti, Stock Keeper
- 11 Sh. Himy Kumar, Comp. Operator Library
- 12 Sh. Gopal Aggarwal, Lab. Attendant
- 13 Sh. Ajay Kumar, Lab. Attendant
- 14 Sh. Ravinder, Lab. Attendant
- 15 Sh. Mukesh Singh, Lab. Attendant
- 16 Sh. Sonu, Lab. Attendant
- 17 Sh. Subh Ram, Lab. Attendant
- 18 Sh. Shankar, Lab. Attendant
- 19 Ms. Sharda, Lab. Attendant
- 20 Sh. Shashi Singh, Groundsman
- 21 Sh. Bijender Singh, Groundsman
- 22 Ms. Riya, Groundsman
- 23 Sh. Mahender Singh, Groundsman
- 24 Sh. Hans Raj, Tabla Player
- 25 Ms. Raj Rani, Peon
- 26 Sh. Deepak, Peon
- 27 Ms. Rekha, Peon
- 28 Shri Narayan Pandey, Electrician
- 29 Sh. Jasbir Singh, Part Time Plumber
- 30 Sh. Kaminder, Chaukidar
- 31 Sh. Kailash, Chaukidar
- 32 Sh. Parveen, Mali
- 33 Sh. Bijender, Mali
- 34 Sh. Yogesh, Mali
- 35 Sh. Mahabir, Sweeper











The following Committee members were present for conducting the lab audits.

Sr.No	Committee members
1	Ms. Neeru
2	Ms. Sangeeta Manrow
3	Dr. Deepu Saini
4	Ms. Pooja Sharma

The compiled detailed report of lab audit is as under:

Overall Departments have laboratory activities are aligned with the department's objectives and priorities. All the essential major equipments are present in the department. Laboratory was fulfilled with minimum equipment and requirements like waste containers are to be appropriately labeled. Practices of not taking food and drink are to be followed in the lab. Incidents/accidents are to be recorded. Ensure all hazardous materials are labeled and stored appropriately.

Recommendation:

- Smart board for practical and instrumental techniques.
- Proper place should be provided to students for keeping bags.
- Need water purifier
- Require Sanitization point at the lab entry.
- Maintain a current Safety Data Sheet for each hazardous chemical present.



Phone No. 01664-242414 & 240422

Adarsh Mahila Mahavidyalaya, BHIWANI-127021

Affiliated to Chaudhary Bansi Lal University, Bhiwani (NAAC Accredited B+)

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Email : principalammb@gmail.com

Website : www.amb.ac.in

Ref. No. AMMB/.....

Dated 30/06/22.....

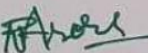
Audit Committee

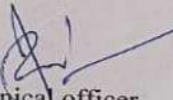
Adarsh Mahila Mahavidyalaya, Bhiwani

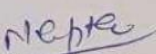
Certificate

This is to certify that this Audit Report of Adarsh Mahila Mahavidyalaya, Bhiwani is based on the original data collected during the period of study. Further, it is certified that the baseline data was prepared by the internal Audit teams of Adarsh Mahila Mahavidyalaya, Bhiwani and submitted to us. The content of the baseline data of the study has been personally verified by the auditing team for validity and reliability. The data used in the study is original in nature and have not been presented or published elsewhere. Photographs used in the report are either taken directly by the audit team or are given by internal audit team.


1) General Secretary


2) Principal


3) Technical officer


4) IQAC Coordinator