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CONCRETE TECHNOLOGY LABORATORY

SAFETY RULES

1. Be sure to read all Fire alarm and safety signs and follow the instructions in the event of an accident or emergency.
2. Make sure you know where your lab safety equipment including first aid kit(s), and how to properly use it.
3. Never leave ongoing experiment unattended.
4. Protect yourself with dry Insulation material.
5. Use mask and gloves during experiment period.



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GEOTECHNICAL ENGINEERING LABORATORY

SAFETY RULES

1. Be sure to read all Fire alarm and safety signs and follow the instructions in the event of an accident or emergency.
2. Make sure you know where your lab safety equipment including first aid kit(s), and how to properly use it.
3. Never leave ongoing experiment unattended.
4. Protect yourself with dry Insulation material.
5. Use mask and gloves during experiment period.



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SURVEY ENGINEERING LABORATORY

SAFETY RULES

1. Be sure to read all Fire alarm and safety signs and follow the instructions in the event of an accident or emergency.
2. Make sure you know where your lab safety equipment including first aid kit(s), and how to properly use it.
3. Never leave ongoing experiment unattended.
4. Protect yourself with dry Insulation material.
5. Use mask and gloves during experiment period.



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TRANSPORTATION ENGINEERING LABORATORY

SAFETY RULES

1. Be sure to read all Fire alarm and safety signs and follow the instructions in the event of an accident or emergency.
2. Make sure you know where your lab safety equipment including first aid kit(s), and how to properly use it.
3. Never leave ongoing experiment unattended.
4. Protect yourself with dry Insulation material.
5. Use mask and gloves during experiment period.



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BASIC ELECTRICAL ENGINEERING LABORATORY

SAFETY RULES

1. Be sure to read all fire alarm and safety and follow the instructions in the event of an accident or emergency.
2. Make sure you know where your lab safety equipment including first aid kit(s), fire extinguishers and eye wash stations, are located and how to properly use it.
3. Always work in properly ventilated areas and never leave an ongoing equipment unattended.
4. Avoid water at all times when working with electricity. Never touch or try repairing any electrical equipment or circuits with wet hands. It increases the conductivity of the electric current.
5. Never use equipment with frayed cords, damaged insulation or broken plugs.
6. Always use insulated tools while working.
7. Always use appropriate insulated rubber gloves and goggles while working on any branch circuit or any other electrical circuit.
8. If an individual comes in contact with a live electrical conductor, do not touch the equipment, cord or person. Disconnect the power source from the circuit breaker or pull out the plug using a leather belt.
9. Never touch another person's equipment or electrical control devices unless instructed to do so.
10. Enclose all electric contacts and conductors so that no one can accidentally come into contact with them.



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CONTROL SYSTEM LABORATORY

SAFETY RULES

1. Be sure to read all fire alarm and safety and follow the instructions in the event of an accident or emergency.
2. Make sure you know where your lab safety equipment including first aid kit(s), fire extinguishers and eye wash stations, are located and how to properly use it.
3. Always work in properly ventilated areas and never leave an ongoing equipment unattended.
4. Avoid water at all times when working with electricity. Never touch or try repairing any electrical equipment or circuits with wet hands. It increases the conductivity of the electric current.
5. Never use equipment with frayed cords, damaged insulation or broken plugs.
6. Always use insulated tools while working.
7. Always use appropriate insulated rubber gloves and goggles while working on any branch circuit or any other electrical circuit.
8. If an individual comes in contact with a live electrical conductor, do not touch the equipment, cord or person. Disconnect the power source from the circuit breaker or pull out the plug using a leather belt.
9. Never touch another person's equipment or electrical control devices unless instructed to do so.
10. Enclose all electric contacts and conductors so that no one can accidentally come into contact with them.



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DIGITAL MEASUREMENT AND INSTRUMENTATION LABORATORY SAFETY RULES

1. Be sure to read all fire alarm and safety and follow the instructions in the event of an accident or emergency.
2. Make sure you know where your lab safety equipment including first aid kit(s), fire extinguishers and eye wash stations, are located and how to properly use it.
3. Always work in properly ventilated areas and never leave an ongoing equipment unattended.
4. Avoid water at all times when working with electricity. Never touch or try repairing any electrical equipment or circuits with wet hands. It increases the conductivity of the electric current.
5. Never use equipment with frayed cords, damaged insulation or broken plugs.
6. Always use insulated tools while working.
7. Always use appropriate insulated rubber gloves and goggles while working on any branch circuit or any other electrical circuit.
8. If an individual comes in contact with a live electrical conductor, do not touch the equipment, cord or person. Disconnect the power source from the circuit breaker or pull out the plug using a leather belt.
9. Never touch another person's equipment or electrical control devices unless instructed to do so.
10. Enclose all electric contacts and conductors so that no one can accidentally come into contact with them.



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ELECTRICAL SIMULATION LABORATORY

SAFETY RULES

1. Be sure to read all fire alarm and safety and follow the instructions in the event of an accident or emergency.
2. Make sure you know where your lab safety equipment including first aid kit(s), fire extinguishers and eye wash stations, are located and how to properly use it.
3. Always work in properly ventilated areas and never leave an ongoing equipment unattended.
4. Avoid water at all times when working with electricity. Never touch or try repairing any electrical equipment or circuits with wet hands. It increases the conductivity of the electric current.
5. Never use equipment with frayed cords, damaged insulation or broken plugs.
6. Always use insulated tools while working.
7. Always use appropriate insulated rubber gloves and goggles while working on any branch circuit or any other electrical circuit.
8. If an individual comes in contact with a live electrical conductor, do not touch the equipment, cord or person. Disconnect the power source from the circuit breaker or pull out the plug using a leather belt.
9. Never touch another person's equipment or electrical control devices unless instructed to do so.
10. Enclose all electric contacts and conductors so that no one can accidentally come into contact with them.



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INDUSTRIAL AUTOMATION LABORATORY (PLC)

SAFETY RULES

1. Be sure to read all fire alarm and safety and follow the instructions in the event of an accident or emergency.
2. Make sure you know where your lab safety equipment including first aid kit(s), fire extinguishers and eye wash stations, are located and how to properly use it.
3. Always work in properly ventilated areas and never leave an ongoing equipment unattended.
4. Avoid water at all times when working with electricity. Never touch or try repairing any electrical equipment or circuits with wet hands. It increases the conductivity of the electric current.
5. Never use equipment with frayed cords, damaged insulation or broken plugs.
6. Always use insulated tools while working.
7. Always use appropriate insulated rubber gloves and goggles while working on any branch circuit or any other electrical circuit.
8. If an individual comes in contact with a live electrical conductor, do not touch the equipment, cord or person. Disconnect the power source from the circuit breaker or pull out the plug using a leather belt.
9. Never touch another person's equipment or electrical control devices unless instructed to do so.
10. Enclose all electric contacts and conductors so that no one can accidentally come into contact with them.



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ELECTRICAL MACHINES OPERATION AND CONTROL LABORATORY

SAFETY RULES

1. Be sure to read all fire alarm and safety and follow the instructions in the event of an accident or emergency.
2. Make sure you know where your lab safety equipment including first aid kit(s), fire extinguishers and eye wash stations, are located and how to properly use it.
3. Always work in properly ventilated areas and never leave an ongoing equipment unattended.
4. Avoid water at all times when working with electricity. Never touch or try repairing any electrical equipment or circuits with wet hands. It increases the conductivity of the electric current.
5. Never use equipment with frayed cords, damaged insulation or broken plugs.
6. Always use insulated tools while working.
7. Always use appropriate insulated rubber gloves and goggles while working on any branch circuit or any other electrical circuit.
8. If an individual comes in contact with a live electrical conductor, do not touch the equipment, cord or person. Disconnect the power source from the circuit breaker or pull out the plug using a leather belt.
9. Never touch another person's equipment or electrical control devices unless instructed to do so.
10. Enclose all electric contacts and conductors so that no one can accidentally come into contact with them.



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NETWORK DEVICES LABORATORY

SAFETY RULES

1. Be sure to read all fire alarm and safety and follow the instructions in the event of an accident or emergency.
2. Make sure you know where your lab safety equipment including first aid kit(s), fire extinguishers and eye wash stations, are located and how to properly use it.
3. Always work in properly ventilated areas and never leave an ongoing equipment unattended.
4. Avoid water at all times when working with electricity. Never touch or try repairing any electrical equipment or circuits with wet hands. It increases the conductivity of the electric current.
5. Never use equipment with frayed cords, damaged insulation or broken plugs.
6. Always use insulated tools while working.
7. Always use appropriate insulated rubber gloves and goggles while working on any branch circuit or any other electrical circuit.
8. If an individual comes in contact with a live electrical conductor, do not touch the equipment, cord or person. Disconnect the power source from the circuit breaker or pull out the plug using a leather belt.
9. Never touch another person's equipment or electrical control devices unless instructed to do so.
10. Enclose all electric contacts and conductors so that no one can accidentally come into contact with them.



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INDUSTRIAL POWER ELECTRONICS LABORATORY

SAFETY RULES

1. Be sure to read all fire alarm and safety and follow the instructions in the event of an accident or emergency.
2. Make sure you know where your lab safety equipment including first aid kit(s), fire extinguishers and eye wash stations, are located and how to properly use it.
3. Always work in properly ventilated areas and never leave an ongoing equipment unattended.
4. Avoid water at all times when working with electricity. Never touch or try repairing any electrical equipment or circuits with wet hands. It increases the conductivity of the electric current.
5. Never use equipment with frayed cords, damaged insulation or broken plugs.
6. Always use insulated tools while working.
7. Always use appropriate insulated rubber gloves and goggles while working on any branch circuit or any other electrical circuit.
8. If an individual comes in contact with a live electrical conductor, do not touch the equipment, cord or person. Disconnect the power source from the circuit breaker or pull out the plug using a leather belt.
9. Never touch another person's equipment or electrical control devices unless instructed to do so.
10. Enclose all electric contacts and conductors so that no one can accidentally come into contact with them.



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POWER SYSTEM LABORATORY

SAFETY RULES

1. Be sure to read all fire alarm and safety and follow the instructions in the event of an accident or emergency.
2. Make sure you know where your lab safety equipment including first aid kit(s), fire extinguishers and eye wash stations, are located and how to properly use it.
3. Always work in properly ventilated areas and never leave an ongoing equipment unattended.
4. Avoid water at all times when working with electricity. Never touch or try repairing any electrical equipment or circuits with wet hands. It increases the conductivity of the electric current.
5. Never use equipment with frayed cords, damaged insulation or broken plugs.
6. Always use insulated tools while working.
7. Always use appropriate insulated rubber gloves and goggles while working on any branch circuit or any other electrical circuit.
8. If an individual comes in contact with a live electrical conductor, do not touch the equipment, cord or person. Disconnect the power source from the circuit breaker or pull out the plug using a leather belt.
9. Never touch another person's equipment or electrical control devices unless instructed to do so.
10. Enclose all electric contacts and conductors so that no one can accidentally come into contact with them.



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MICROGRID OPERATION LABORATORY

SAFETY RULES

1. Be sure to read all fire alarm and safety and follow the instructions in the event of an accident or emergency.
2. Make sure you know where your lab safety equipment including first aid kit(s), fire extinguishers and eye wash stations, are located and how to properly use it.
3. Always work in properly ventilated areas and never leave an ongoing equipment unattended.
4. Avoid water at all times when working with electricity. Never touch or try repairing any electrical equipment or circuits with wet hands. It increases the conductivity of the electric current.
5. Never use equipment with frayed cords, damaged insulation or broken plugs.
6. Always use insulated tools while working.
7. Always use appropriate insulated rubber gloves and goggles while working on any branch circuit or any other electrical circuit.
8. If an individual comes in contact with a live electrical conductor, do not touch the equipment, cord or person. Disconnect the power source from the circuit breaker or pull out the plug using a leather belt.
9. Never touch another person's equipment or electrical control devices unless instructed to do so.
10. Enclose all electric contacts and conductors so that no one can accidentally come into contact with them.



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TRANSFORMER TESTING LABORATORY SAFETY RULES

1. Be sure to read all fire alarm and safety and follow the instructions in the event of an accident or emergency.
2. Make sure you know where your lab safety equipment including first aid kit(s), fire extinguishers and eye wash stations, are located and how to properly use it.
3. Always work in properly ventilated areas and never leave an ongoing equipment unattended.
4. Avoid water at all times when working with electricity. Never touch or try repairing any electrical equipment or circuits with wet hands. It increases the conductivity of the electric current.
5. Never use equipment with frayed cords, damaged insulation or broken plugs.
6. Always use insulated tools while working.
7. Always use appropriate insulated rubber gloves and goggles while working on any branch circuit or any other electrical circuit.
8. If an individual comes in contact with a live electrical conductor, do not touch the equipment, cord or person. Disconnect the power source from the circuit breaker or pull out the plug using a leather belt.
9. Never touch another person's equipment or electrical control devices unless instructed to do so.
10. Enclose all electric contacts and conductors so that no one can accidentally come into contact with them.



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COMPUTATIONAL LABORATORY SAFETY RULES

1. Turn off the machine before leaving the laboratory.
2. Do not plug in external devices without scanning them for computer viruses.
3. Maintain the room temperature below 25 o C to ensure safety of Computers.
4. Do not to touch or step on any of the circuit boards, wires and power sockets.
5. Always maintain an extra copy of all your important data files.
6. All users of the laboratory are to follow the directions of Laboratory in charge.
7. Students should not attempt to repair, open, tamper or interfere with any of the computers, printers, cabling, air conditioning or other equipment in the laboratory.
8. Students should be aware of office ergonomic guidelines for correct posture when using computer equipment.
9. Your personal belongings are your own responsibility.



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PHYSICS LABORATORY SAFETY RULES

1. Be alert and attentive at all times. Act like an adult.
2. Report all accidents, injuries or breakage to the instructor immediately. Also, report any equipment that you suspect is malfunctioning.
3. Dress properly for lab. Depending on the particular activity, the instructor may require long hair to be tied back, dangling jewelry and loose or baggy clothing to be removed or secured, shoes that cover the foot, and safety goggles to be worn.
4. Use equipment with care for the purpose for which it is intended.
5. Do not perform unauthorized experiments. Get the instructor's permission before you try something original.
6. Be careful when working with apparatus that may be hot. If you must pick it up, use tongs, a wet paper towel, or other appropriate holder.
7. If a thermometer breaks, inform the instructor immediately. Do not touch either the broken glass or the mercury with your bare skin.
8. Ask the instructor to check all electrical circuits before you turn on the power.
9. When working with electrical circuits, be sure that the current is turned off before making adjustments in the circuit.
10. Never, ever look into any Laser beam. Always wear your goggles and never lower your head to the level of the Laser beam.



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HORTICULTURE LABORATORY-1

SAFETY RULES

1. Safety first. Use common sense to avoid accidents.
2. Shoes (no sandals) must be worn at all times. Bare feet or open (front or back) are not permitted in the laboratory.
3. Avoid direct contact of toxic chemicals (fungicides, pesticides and weedicides) with eyes and skins.
4. Before starting laboratory work, follow all written and verbal instructions carefully. If you do not understand a direction or part of a procedure, ask your concerned teacher before proceeding with the activity.
5. Use the glassware and equipment carefully.
6. Keep your work space clean and tidy. The working space, desk drawers, cabinets, instruments must be kept neat and clean at all the times.
7. When lab and field work is completed, all materials must be returned to their proper place and used benches, instruments and glass wares must be cleaned up.
8. Any student who has, or who develops a medical condition (nausea, asthma, allergies, chemical/ fire burn etc.) should immediately inform the lab instructor/ lab assistant.



M.Sc. HORTICULTURE LABORATORY

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SAFETY RULES

DO'S

1. Inform and take permission from the lab incharge/supervisor/attender before going to start work (biochemical analysis).
2. Ensure maintaining proper discipline to all in laboratory.
3. Ensure all chemicals/reagents/glassware are available or not, used following safety measures and keep all chemicals in their original labeled containers.
4. Inform the lab incharge if there are any problems.
5. Ensure proper functioning of all the devices/instruments before use.
6. Read all the instruction manuals/biochemical procedures before use.
7. Ensure that the instruments are turned off after use.
8. Always clean your glassware and equipments before and after you use in the lab.
9. Ensure that the glassware/tools and equipments are kept back to its same place after use.
10. Ensure that glassware is cleaned immediately after use.



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POST HARVEST LABORATORY

SAFETY RULES

DO'S

1. Ensure that the chemicals are used following safety measures.
2. Keep all chemicals in their original labeled containers
3. Ensure hygiene while preparation of products.
4. Inform the instructor and/or TA if there are any problems.
5. Ensure proper functioning of all the devices before use.
6. Read all the instruction manuals before use.
7. Ensure that the gas oven is turned off after use.
8. Always clean your tools and equipments before and after you use in the lab.
9. Ensure that the tools and equipments are kept back to its same place after use.
10. Ensure that spills are cleaned immediately and safe
11. Ensure maintaining proper discipline to all.



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3D PRINTING LABORATORY

SAFETY RULES

1. Don't look at the lamp and ensure the UV screen is intact before use.
2. Moving parts must be guarded to prevent accidental contact. During printing, please remember to adjust the extruder temperature to material melting point.
3. Don't touch moving parts of the machine - toothed belts, Z-axis screws, rails.
4. Never touch hot parts of the machine - extruder nozzle and heated bed.



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ADVANCED TESTING & CALIBRATION LABORATORY

SAFETY RULES

1. Before entering the lab wear appropriate apron, shoes, shoes cover and hand gloves.
2. Before working check the working area; it should be free from dust, oil, grease and any other spillage.
3. Always follow the safety precautions for the specific machine.
4. Before operation check that the work piece is clamped and placed properly.
5. Before starting any experiment always check whether the software is functioning properly or not.
6. Concentrate while doing your work.
7. Always unplug all the machines after use.



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CAD LABORATORY SAFETY RULES

1. Avoid Stepping on Electrical Wires or any other Computer Cables.
2. Don't Plug in External Devices without Scanning them for Computer Viruses.
3. Don't Touch any of the Circuit Boards and Power Sockets when a Device is Connected to them and Switched on.
4. Do not Insert Metal Objects such as Clips, Pins and Needles into the Computer Casing. They may Cause Fire.
5. Save your Contents (if any) only in 'D:' Drive by Creating a Folder with your Registration Number only.
6. Shut down the System Properly and then Turn off the Main Power Switch when Shut down Process is Over.



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CNC LABORATORY SAFETY RULES

1. Don't carry out experiments without proper knowledge about the instruments and approval of your supervisor.
2. Check that the working area should be free from oil and grease, before working.
3. Check whether the work piece is clamped properly before starting the machine.
4. Put on proper protective clothing while working on the machine.
5. Don't indulge in horseplay.
6. Concentrate while doing your work and avoid unnecessary talking.
7. Inspect the tools for safe working from time to time.
8. Don't attempt to clean oil, adjust or repair any machine while in operation.
9. Don't try to stop the machine with hands or body.
10. Don't enter the workshop without safety shoes.



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FLUID MECHANICS AND HYDRAULIC MACHINES LABORATORY SAFETY RULES

1. Always maintain awareness of the surrounding activities and walk in aisles to the extent possible.
2. Maintain clean and orderly laboratories and work area.
3. Always depressurize accumulators or pneumatic reservoirs before working on fluid power apparatus.
4. Check the three phase power supply before starting the machine.
5. Ensure the location of the emergency stop button before starting equipment.



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BASIC FOUR WHEELER MAINTENANCE WORKSHOP

SAFETY RULES

1. Before Working, See that Working Area should be Clean.
2. Check out the Amount of Diesel before Starting.
3. Concentrate Fully while doing your Work.
4. Follow Carefully the Procedure given in the Schedule or Instruction Sheets.
5. See all the Connection Correctly.
6. Do not Play with the Tools while doing the Work.
7. You should not Carry out Experiments or Make Innovations without the Approval of your supervisor. Ask if you do not Fully Understand the Instructions.
8. Immediately Report any Spills, Accidents or Injuries to Instructor.
9. When the Experiment is done all the Attachments must be Dismantled and Returned to Proper Location.



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HEAT TRANSFER LABORATORY SAFETY RULES

1. Don't start the equipment without proper electrical supply.
2. Keep dimmer stat to zero position before start.
3. Increase voltage gradually.
4. Keep the assembly undisturbed while testing.
5. While removing or changing the lagging material, do not disturb the thermocouples.
6. Do not increase power above 100 Watts.
7. Operate selector switch of temperature indicator gently.



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MACHINE DYNAMICS AND VIBRATION LABORATORY

SAFETY RULES

1. Maintain safe distance from the machine.
2. Tighten the governor parts before starting.
3. Wear shoes while conducting experiments.
4. Avoid touching the high speed machine components while conducting experiments.
5. Guards on the machinery must be in place during operation.
6. When the experiment is done all the attachments must be dismantled and return to proper location.
7. Immediately report any spills, accidents, or injuries to instructor.



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METROLOGY LABORATORY

NSQF LEVEL : 4 & 5

Name of faculty In-charge : Prof. Dillip Mohanta

Name of Lab Assistant : Mr. Sanjeeb Patnaik

Objectives

1. To induce the scientific idea of measurement and inspection.
2. To standardize the measuring methods.
3. To determine the measuring instrument capabilities and ensure that they are quite sufficient for their respective measurements.
4. To Minimize the cost of inspection by effective and efficient use of available facilities.

Outcomes:

Students will be able to

1. Select suitable measuring instruments for basic and special purposes.
2. Achieve quality and reliability in the service of any high-technology products in dimensional control
3. Design the fits and tolerances to improve the existing performance.
4. Work in quality control and quality assurance divisions in industries.



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MANUFACTURING SCIENCE LABORATORY

SAFETY RULES

1. Before Starting the Machine

- a. Check all the Electric Connections and Switches.
- b. Check the Oil Label.
- c. Check the Grounding Bolts.
- d. Check the Coolant.
- e. Check the Gear (Either Engage or Dis-Engage).

2. At the Running Condition

- a. Wear all the Safety Instruments (Shoes, Helmet, Apron and Safety Goggles).
- b. Concentrate on the Work.

3. At the end

- a. Machine should be Cleaned.
- b. All Switches should be off.
- c. Make the Gear in Neutral Position.
- d. Machine Oiling.



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MATERIAL TESTING AND METALLURGY LABORATORY

SAFETY RULES

1. Check all the Electric Connections and Switches.
2. Check the Oil Label.
3. Check the Grunting Bolts.
4. Fix and Remove the Specimen Carefully.
5. Concentrate on the Work.
6. Machine should be Cleaned.
7. All Switches should be off at the end of the Experiment.
8. Standard Specimens should be Prepared.
9. Stop the Machine after the Specimen is Failed.



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NON-TRADITIONAL MACHINE LABORATORY SAFETY RULES

1. Before Starting the Machine

- a. See that the Working Area should be Clean.
- b. Know Emergency Procedures (First Aid, Fire Extinguishers etc.).

2. At the Running Condition

- a. Wear all the Safety Instruments.
- b. Concentrate on the Work.
- c. Do not Stand Close to the Machine while it is Running.
- d. Do not Place Hands or Tools in the Vicinity of the Belts or any other Moving Parts while Machine is Running.

3. At the End

- a. Machine should be Cleaned.
- b. All Switches should be off.
- c. Make the Machine in Neutral Position.
- d. When the Experiment is Done all the Attachments must be Dismantled and Returned to Proper Location.



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REFRIGERATION AND AIR CONDITIONING LABORATORY

SAFETY RULES

1. Always maintain awareness of the surrounding activities and walk in aisles to the extent possible
2. Maintain clean and orderly laboratories and work area
3. Always depressurize accumulators or pneumatic reservoirs before working on fluid power apparatus.
4. Check the three phase power supply before starting the machine.
5. Ensure the location of the emergency stop button before starting equipment



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THERMAL ENGINEERING LABORATORY-I

SAFETY RULES

1. Do not stand close to the rotating engine components.
2. Do not place hands or tools in the vicinity of moving parts while machine is running.
3. Flammable chemicals must be stored in an approved flammable storage cabinet.
4. When the experiment is done all the attachments must be dismantled and return to proper location.
5. Immediately report any spills, accidents or injuries to instructor.
6. Know emergency procedures (first aid, fire extinguishers etc.).



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THERMAL ENGINEERING LABORATORY-2

SAFETY RULES

1. Do not stand close to the motor while it is running.
2. Open the reservoir valve before switch on the compressor.
3. Release the air after the experiment is over.
4. Check the three phase power supply before starting the machine.
5. Use gloves while using chemicals for bio-diesel preparation.
6. Do not place hands or tools in the vicinity of the belts or any other moving parts while machine is running.
7. Guards on the machinery must be in place during operation.
8. Flammable chemicals must be stored in an approved flammable storage cabinet.
9. When the experiment is done all the attachments must be dismantled and returned to proper location.
10. Immediately report any spills, accidents or injuries to instructor.
11. Know emergency procedures (first aid, fire extinguishers etc.).



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BASIC TWO WHEELER MAINTENANCE WORKSHOP

SAFETY RULES

1. Use Safety Glass, Gloves, Mask and Shoes while Working.
2. Use Rubber Gloves while Handling Batteries.
3. Wash your Hands Properly after Handling Acid.
4. Don't Stand Close to the Pneumatic Bay while Operating the Same.
5. Use Protective Glass while Using the Grinder and be Careful not to Touch the Grinding Wheel.
6. Identify and Correct any Hazards that can be Dealt with Safely.
7. Report any Hazards that cannot be Dealt with.
8. Use Helmet while Going for a Test Ride and Follow the Norms of Safe Riding.
9. Flammable Chemicals must be Stored in an Approved Flammable Storage Cabinet.



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WELDING WORKSHOP SAFETY RULES

1. Wear protective equipment: safety helmet, shoe, goggles, hand gloves, hand sleeves and apron.
2. Without any proper knowledge do not operate the welding machine.
3. Do not operate on wet surface.
4. Be alert to electrical and fire hazards. move the object to be welded to a safe location.
5. Do not weld any material by seeing with naked eyes.
6. Always inspect all welding equipment to be used for any possible damage. report any damage to your supervisor immediately.
7. When arc welding, make sure work and/or work table is properly grounded.



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WOOD ENGINEERING LEARNING LABORATORY

SAFETY RULES

1. Read the instructions carefully.
2. Only use woodworking machines that you have been trained to use properly and safely.
3. Always wear safety goggles or face shield, hearing protection, protective footwear, and gloves while working.
4. Ensure that all cutting tools and blades are clean, sharp and in good working order so that they will cut freely, not forced.
5. Check and adjust all other safety devices.
6. Turn the power off after finishing the work.



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CHEMISTRY LABORATORY SAFETY RULES

1. Safety first, use common sense to avoid accidents.
2. Always work with an approved laboratory coat (or apron) and eye protection.
3. Shoe (no sandals) must be worn all times. Bare feet or open shoe (front or back) are not permitted in the laboratory.
4. Avoid direct contact of toxic chemicals with eye and skin.
5. Use the glassware and equipment carefully
6. Learn about the use of the burner and fire extinguisher
7. Keep your work space clean and tidy. The working space desk, drawers, cabinets, instruments must be kept neat and clean at all times.
8. When lab work is completed, all materials must be returned to their proper places and used benches, instruments and glassware must be cleaned up.
9. Any student who has or who develops a medical condition (nausea, asthma, allergies, chemical/fire burn etc) should immediately inform the lab instructor/lab assistant.
10. Never work alone in the laboratory and also do not use electronic gazettes such as mobile, laptops, tablets, ear pods, ear cords etc. in the lab.
11. Before using any type of new chemical, seek the help of teacher or lab assistant.
12. Never perform new experiments alone and if you have any doubt regarding the set-up, please wait for the teacher or lab assistant.
13. If you are not 100% sure about any equipment regarding its use, then please do not touch it and wait for the concerned person to appear in the lab.
14. Never ever throw your reaction mixture, solvents or any chemical waste in the sink.
15. Before throwing any chemical container (chemical bottles, tanks), first learn how to dispose it properly.



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PHYSICS LABORATORY SAFETY RULES

- 1. Be alert and attentive at all times.**
- 2. Report all accidents, injuries or breakage to the instructor immediately. Also, report any equipment that you suspect is malfunctioning.**
- 3. Dress properly for the lab and use suggested PPEs.**
- 4. Perform experiments in the presence of the instructor.**
- 5. Be careful when working with apparatus that may be hot.**
- 6. When working with electrical circuits, be sure that the current is turned off before making adjustments in the circuit.**
- 7. Never, ever look into any Laser beam. Always wear your goggles and never lower your head to the level of the Laser beam.**



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3D PRINTING LAB SAFETY RULES

1. Don't look at the lamp and ensure the UV screen is intact before use.
2. Moving parts must be guarded to prevent accidental contact. During printing, please remember to adjust the extruder temperature to material melting point.
3. Don't touch moving parts of the machine toothed belts, Z-axis screws, rails.
4. Never touch hot parts of the machine extruder nozzle and heated bed.



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ADVANCED MACHINING LAB SAFETY RULES

1. Before starting the machine

- A. See that the working area must be clean.
- B. Know emergency procedures (First Aid, Fire Extinguishers etc.)

2. During running condition

- A. Wear all Personal Protective Equipment (PPE) for safety.
- B. Concentrate on the work.
- C. Do not stand close to the machine while it is running.
- D. Do not place hand or tools in the vicinity of moving parts while the machine is running.

3. At the end

- A. Machine should be cleaned.
- B. All switches should be off.
- C. Make the machine in neutral position.
- D. When the experiment is done all the attachments must be dismantled and returned to the proper location.



CAD LABORATORY SAFETY RULES

1. Avoid stepping on electrical wires or any other computer cables.
2. Don't plug in external devices without scanning them for computer viruses.
3. Don't touch any of the circuit boards and power sockets when a device is connected to them and switched on.
4. Do not insert metal objects such as clips, pins and needles into the computer casing. They may cause fire.
5. Save your contents (if any) only in 'd:' drive by creating a folder with your registration number only.
6. SHutdown the system properly and then turn off the main power switch when shut down process is over.



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FLUID MECHANICS AND HYDRAULIC MACHINES LAB

SAFETY RULES

1. Do not stand close to the machine while it is running.
2. Wear a uniform and shoes before entering into the laboratory.
3. Do not touch any of the circuit boards and power sockets when a machine is switched on.
4. Maintain a safe distance from the machine.
5. Do not place hands or tools in the vicinity of the belts or any moving parts while the machine is running.
6. Guards on the machinery must be in place during operation.
7. When the experiment is done all the attachments must be dismantled and returned to the proper location.
8. Immediately report any spills, accidents or injuries to the instructor.
9. Know emergency procedures (First Aid, Fire Extinguishers etc.)



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HEAT TRANSFER AND REFRIGERATION AIR CONDITIONING LAB

SAFETY RULES

1. Before starting the machine check all the electric connections and switches.
2. At the Running condition.
Wear all the safety equipment (shoes and gloves).
Connection to work.
3. At the end
Machine should be cleaned
All switches should be off.
When the Experiment is done all the Attachment must be Dismantled and returned to proper Location.



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MACHINE DYNAMICS LABORATORY SAFETY RULES

1. Maintain Safe Distance from the Machine.
2. Tighten the Governor Parts before Starting.
3. Wear Shoes While Conducting Experiments.
4. Avoid Touching the High Speed Machine Components While Conducting Experiments.
5. Guards on the Machinery must be in Place during Operation.
6. Immediately Report any Spills, Accidents, or Injuries to the Instructor.
7. Know emergency Procedures First Aid, Fire Extinguishers etc.



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MANUFACTURING SCIENCE LABORATORY

SAFETY RULES

Before starting the machine

1. Check all the electric connections and switches
2. Check the oil label
- 3.. Check the grouting bolts
4. Check the coolant
5. Check the gear (either engage or dis-engage)

At the running condition

1. Wear all the safety instruments (shoes, helmet, apron and safety goggles)
2. Concentrate on the work.

At the end

1. Machine should be cleaned
2. All switches should be off
3. Make the gear in neutral position



MATERIAL TESTING LABORATORY SAFETY RULES

1. Check all the Electric Connections and Switches.
2. Check the Oil Level.
3. Check the Grunting Bolts.
4. Fix and Remove the Specimen Carefully.
5. Concentrate on the Work.
6. Machine should be cleaned.
7. All Switches should be off at the end of the Experiment.
8. Standard Specimens should be Prepared.
9. Stop the Machine after the Specimen is failed.



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METROLOGY LABORATORY SAFETY RULES

1. Before working see the working area should be clean.
2. Unauthorized work of any kind in the laboratory is strictly Forbidden.
3. Eating and drinking are NOT permitted in the laboratory.
4. Coats Hats and other articles not required during practical Work must not be brought into the Laboratory. Cases or Bags should not be left on the Floor where they can Cause Obstruction.
5. Know the location of the Extinguishers in the laboratory where you are Working and how to operate them in on Emergency.
6. Know the location of the First aid boxes and Eye wash points.
7. Follow Carefully the procedure given in the Schedule or Instruction sheets. You should not carry out Experiments or Make Innovations without the Approval of your supervisor. Ask if you do not Fully Understand the Instruction.
8. Concentrate Fully while doing your Work.
9. Immediately Report any spills, Accidents or Injuries to Instructor
10. When the Experiment is done all the Attachments must be Dismantled and Returned to proper Location.



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THERMAL ENGINEERING LABORATORY SAFETY RULES

1. Do not stand close to the motor while it is running.
2. Open the reservoir valve before switching on the compressor.
3. Release the air after the experiment is over.
4. Check the three phase power supply before starting the machine.
5. Use gloves while using chemicals for Biodiesel preparation.
6. Do not place hands or tools in the vicinity of the belts or any other moving parts while machine is running
7. Guards on the machinery must be in place during operation .
8. Flammable chemicals must be stored in an approved flammable storage cabinet.
9. When the experiment is done all the attachments must be dismantled and returned to their proper location.
10. Immediately report any spills, Accidents or Injuries to the instructor.



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WELDING WORKSHOP -2

SAFETY RULES

1. Wear personal protective equipment: helmet, shoe, hand gloves, hand sleeves and apron.
2. Without any proper knowledge do not operate the welding machine.
3. Do not operate on wet surface.
4. Be alert to electrical and fire hazards, move the object to be welded to a safe location.
5. Do not weld material by seeing with naked eyes.
6. Always inspect all welding equipment to be used for any possible damage, report any damage to your supervisor immediately.
7. When arc welding, make sure work and/or work table is properly grounded.



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PHYTOPHARMA LABORATORY

DON'TS

1. Don't leave running machinery unattended
2. Don't work alone, particularly when doing work that can potentially create hazards
3. Don't conduct sensitive or potentially dangerous work when you are not focused, e.g., due to lack of sleep or similar issues.
4. Don't use electrical devices with frayed or damaged cords or exposed wiring.
5. Never taste chemicals or touch them with your bare hands.
6. Don't use corridors, exits and other means of egress for any storage or work
7. Don't block fire doors in an open position
8. Don't attach any items to sprinkler piping and keep activities away from sprinkler heads
9. Food, beverages, gum, and cosmetics are NEVER allowed in the lab
10. Do not put pieces of lab equipment in your mouth
11. Do not work with chemicals until you are sure of their safe handling
12. Do not use the phone or computer with gloves on your hands



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PHYTOPHARMA LABORATORY

DO'S

1. **Be on time and be aware of others in the lab.**
2. **Inform the instructor and/or TA if there is a problem.**
3. **Be aware of all the safety devices**
4. **Always clean your lab station and wash your hands with soap and water before you leave the lab.**
5. **Bring your lab notebook and an open mind to every lab meeting.**
6. **When in doubt, seek help and advice**
7. **Read the entire experiment before entering the lab**
8. **Ensure that any chemicals which are used are compatible**
9. **Keep chemical containers closed when not in use.**
10. **Keep all chemicals in their original labeled containers**
11. **Read the MSDS of the material you plan to use**
12. **Follow all manufacturers' recommendations and requirements**
13. **Implement good housekeeping**
14. **If a device emits an unusual odor, turn it off and unplug it immediately**
15. **Wear safety glasses**
16. **Ensure that spills are cleaned immediately and safe**



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FARM MACHINERY & POWER LABARATORY SAFETY RULES

1. Use common sense to avoid accidents.
2. Shoes (no sandals) must be worn at all times. Bare feet or open (front or back) are not permitted in the laboratory.
3. Don't try to go near the movable parts of working machine.
4. Use the tools and equipment's carefully.
5. Before use of any machines and any implement's take permission from lab instructor/ lab assistant.
6. Always work with an approved laboratory coat/ apron and eye protections.
7. Keep your work space clean and tidy. The working space, desk drawers, cabinets, instruments must be kept neat and clean at all times.
8. When lab work is completed, all materials must be returned to their proper places and used benches, instruments must be cleaned up.
9. Any students who have, or who develops a medical condition (nausea, asthma, allergies, chemical/fire burn etc.) should immediately inform the lab instructor/lab asst.



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FOOD PROCESSING LABARATORY

SAFETY RULES

1. Use common sense to avoid accidents.
2. Shoes (no sandals) must be worn at all times. Bare feet or open (front or back) are not permitted in the laboratory.
3. Avoid direct contact of toxic chemicals with eyes and skin.
4. Use the glassware and equipment's carefully.
5. Always work with an approved laboratory coat or apron and eye protection.
6. Learn about the use of the burner and fire extinguisher.
7. Keep your work space clean and tidy. The working space, desk drawers, cabinets, instruments must be kept neat and clean at all times.
8. When lab work is completed, all materials must be returned to their proper places and used benches, instruments and glassware must be cleaned up.
9. Any students who has, or who develops a medical condition (nausea, asthma, allergies, chemical/fire burn etc.) should immediately inform the lab instructor/lab asst.



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SOIL & WATER CONSERVATION ENGINEERING LABORATORY

SAFETY RULES

1. Use common sense to avoid accidents.
2. Shoes (no sandals) must be worn at all times. Bare feet or open (front or back) are not permitted in the laboratory.
3. Avoid direct contact of toxic chemicals with eyes and skin.
4. Use the glassware and equipment's carefully.
5. Always work with an approved laboratory coat or apron and eye protection.
6. Learn about the use of the burner and fire extinguisher.
7. Keep your work space clean and tidy. The working space, desk drawers, cabinets, instruments must be kept neat and clean at all times.
8. When lab work is completed, all materials must be returned to their proper places and used benches, instruments and glassware must be cleaned up.
9. Any students who has, or who develops a medical condition (nausea, asthma, allergies, chemical/fire burn etc.) should immediately inform the lab instructor/lab asst.



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DAIRY TECHNOLOGY LABORATORY

DO'S

1. Be on time and be aware of others in the lab.
2. Inform the instructor and/or TA if there is a problem.
3. Be aware of all the safety devices
4. Always clean your lab station and wash your hands with soap and water before you leave the lab.
5. Bring your lab notebook and an open mind to every lab meeting.
6. When in doubt, seek help and advice
7. Read the entire experiment before entering the lab
8. Ensure that any chemicals which are used are compatible
9. Keep chemical containers closed when not in use.
10. Keep all chemicals in their original labeled containers
11. Read the MSDS of the material you plan to use
12. Follow all manufacturers' recommendations and requirements
13. Implement good housekeeping
14. If a device emits an unusual odor, turn it off and unplug it immediately
15. Wear safety glasses
16. Ensure that spills are cleaned immediately and safe



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DAIRY TECHNOLOGY LABORATORY

DON'TS

1. Don't leave running machinery unattended
2. Don't work alone, particularly when doing work that can potentially create hazards
3. Don't conduct sensitive or potentially dangerous work when you are not focused, e.g., due to lack of sleep or similar issues.
4. Don't use electrical devices with frayed or damaged cords or exposed wiring.
5. Never taste chemicals or touch them with your bare hands.
6. Don't use corridors, exits and other means of egress for any storage or work.
7. Don't block fire doors in an open position
8. Don't attach any items to sprinkler piping and keep activities away from sprinkler heads
9. Food, beverages, gum, and cosmetics are NEVER allowed in the lab
10. Do not put pieces of lab equipment in your mouth.
11. Do not work with chemicals until you are sure of their safe handling
12. Do not use the phone or computer with gloves on your hands



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PLANT PATHOLOGY LABORATORY

SAFETY RULES

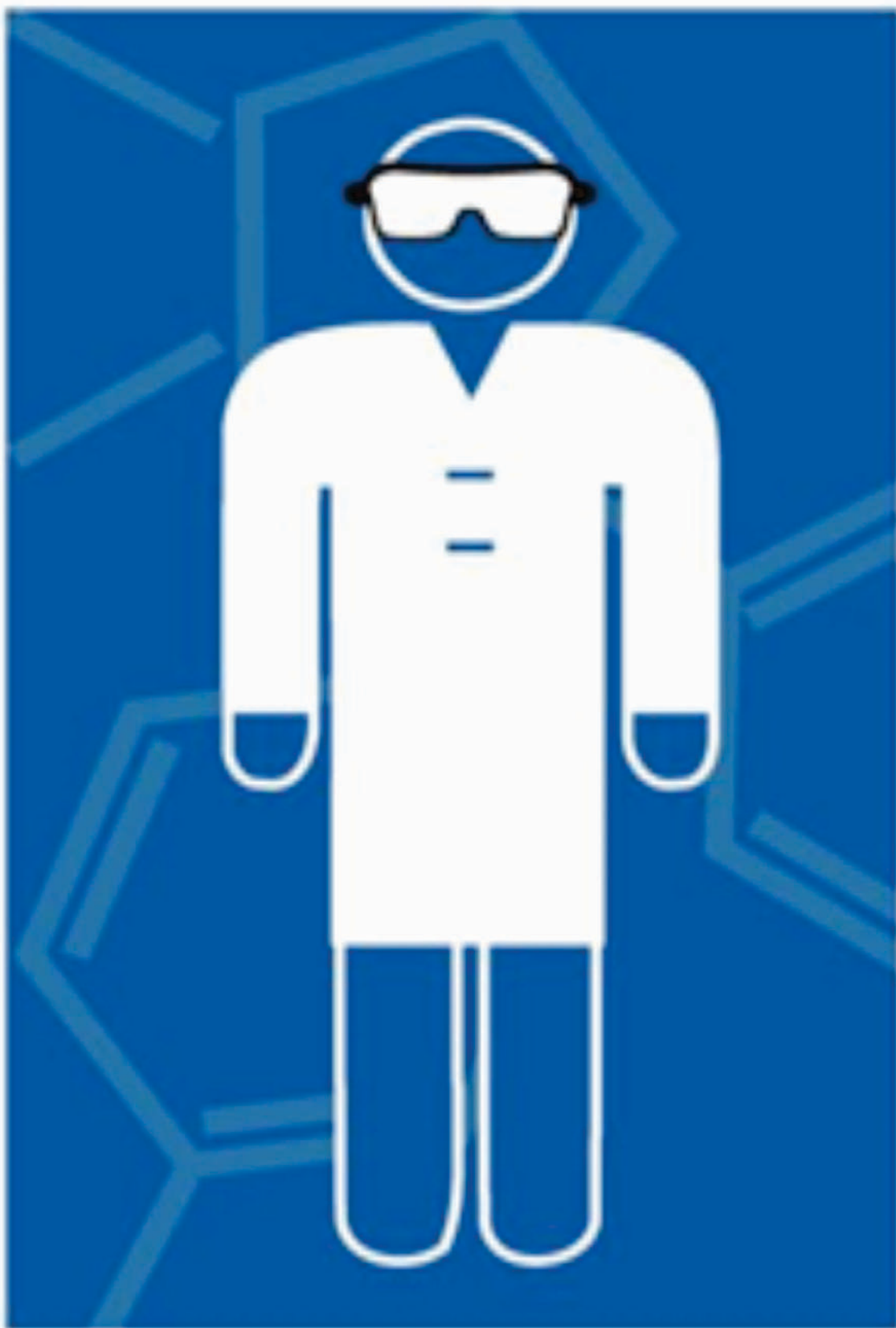
1. Always follow the instructions of lab supervisor.
2. Know the location of safety equipment.
3. While entering to the lab always wear lab coat and safety goggles.
4. Do not eat and drink in the laboratory.
5. Do not taste or sniff chemicals.
6. Do not play mad scientist in the laboratory.
7. Dispose lab waste properly.
8. Know what to do with lab accidents.
9. Always keep the experiments in the lab.
10. Do not experiment on yourself.



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BIOFERTILIZER LABORATORY

SAFETY RULES



Lab Safety Rules

Science labs offer great opportunities for learning, teaching, and research. They also pose hazards that require proper safety precautions.



Stay safe when conducting your labs by following these guidelines.



Dress appropriately

Tie back long hair, and wear suitable gloves, goggles, and other protective equipment.

Proper supervision

Don't perform lab experiments without instructor supervision (unless given permission to do so).



Know location of emergency numbers & safety equipment

Know the location of safety equipment and emergency phone numbers (such as poison control) so you can access them quickly if necessary.



No food

Don't eat or drink in the lab—and never taste chemicals.



ID hazards

Identify hazardous materials before beginning labs.



Be attentive

Be attentive while in the lab. Don't leave lit Bunsen burners unattended or leave an experiment in progress.

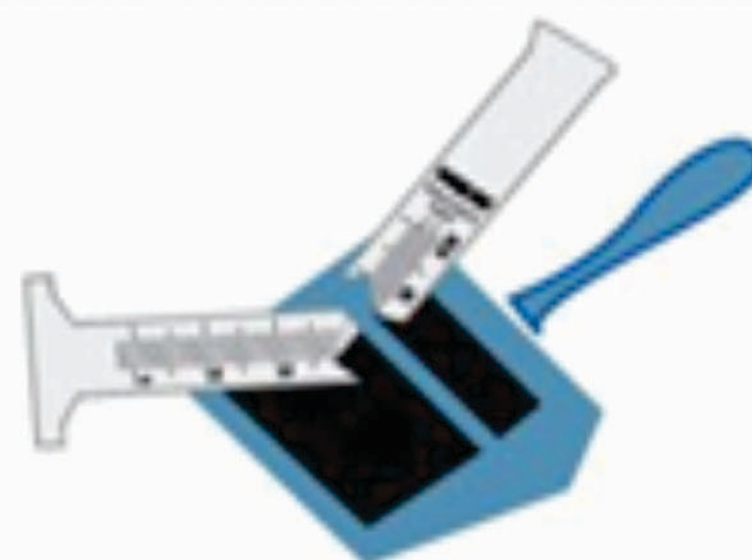
Be careful when handling hot glassware

Turn off all heating appliances when not in use. Keep flammable objects away from your workspace.



Keep a clean workspace

Don't obstruct work areas, floors, or exits. Keep coats, bags, and other personal items stored in designated areas away from the lab. Don't block sink drains with debris.



Handle glassware carefully

Properly dispose of anything that breaks. Report cuts, spills, and broken glass to your instructor immediately.



Clean up

After completing the lab, carefully clean your workspace and the equipment, and wash your hands.



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MICROBIOLOGY LABORATORY

SAFETY RULES

1. Always follow the instructions of lab supervisor.
2. Know the location of safety equipment.
3. While entering to the lab always wear lab coat and safety goggles.
4. Do not eat and drink in the laboratory.
5. Do not taste or sniff chemicals.
6. Do not play mad scientist in the laboratory.
7. Dispose lab waste properly.
8. Know what to do with lab accidents.
9. Always keep the experiments in the lab.
10. Do not experiment on yourself.



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CENTRAL LABORATORY SAFETY RULES

1. Use Gloves, Masks, Aprons, Eye protection and PPE (Personal Protective Equipment) at the time of sample collection and performing test.
2. Dispose of all waste materials in the appropriate Biomedical waste disposal bin.
3. Make sure you know locations of laboratory safety showers, eyewashstations, and fire extinguishers including first aid kit and how to use it properly.
4. You should learn fire safety rules and know how to manage at the time of fire hazard.
5. You should learn about important Electrical Safety rules which can protect you from the hazards of electricity.
6. Carefully handle hazardous chemicals.
7. Do not work with chemicals until you are sure of their safe handling and should avoid perform unauthorized experiments.
8. Arrange the cylinders by strapping it well.
9. Do not leave the Bunsen burner unattended.
10. Wash hands properly after doing an experiment and also before leaving the laboratory.
11. Open cuts and wounds on one's hands or exposed surface area on the skin should be covered with waterproof bandages while performing any experimental procedure or collecting samples.



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EMERGENCY MEDICAL TECHNOLOGY LAB SAFETY RULES

1. Properly check emergency equipment's weather they are malfunctioning, that can be risk to patient's life.
2. Always check the power connections to prevent electrical hazards.
3. Check the gas cylinders regularly to prevent gas leakage.
4. Dispose all materials in the appropriate biomedical waste disposal bin.
5. Make sure you know locations of laboratory safety showers, fire extinguishers including first aid kit and how to use it properly.
6. You should learn fire safety rules and know how to manage at the time of fire hazard.
7. Equipment's should be handle with care & safety.
8. Emergency drug trolley should be always ready for the patient safety.



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OPTOMETRY LABORATORY SAFETY RULES

1. Wear gloves, masks, aprons and eye protection
2. Dispose all materials in the appropriate biomedical waste disposal Bins
3. Use a hypochlorite solution for cleaning contaminated and infected equipment
4. Do not work with instruments until you're sure of their safe handling
5. Do not leave all equipment without shutdown appropriately



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OT LABORATORY SAFETY RULES

1. Safety fire exiting is sure to read all fire and safety sign and follow the instructions in the event of accident emergency.
2. Emergency exit route.
3. Don't eat drink in the laboratory.
4. Use masks and gloves during entire of OT lab.
5. Use equipment as per manual instruction of the company.
6. Designated and well-marked waste storage locations are necessary.
7. No cellphone or ear phone usage in the active portion of the laboratories
8. Don't put Pieces of lab equipment in your mouth
9. Before OT Procedure we have to Check O2 cylinder pipeline connection properly
10. Avoid patient skin electrocautery burning by checking electric ware properly
11. Follow the Biomedical Waste Policy.
12. Before enter or exit to the OT lab, wash your hand properly.



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ICU LABORATORY SAFETY RULES

1. Use of flammable thing prohibited in ICU lab.
2. Always checked the power connections to prevent electrical hazards.
3. Properly check of all the equipment's weather they are malfunctioning, that can be risk to patients' life.
4. Checked the gas cylinders regularly to prevent gas leakage.
5. Ventilators should be checked under preventive maintenance.
6. Do not eat and drink in lab.
7. Equipment's should be handle with care and safety.
8. Follow the biomedical (BM) guidelines.
9. Ensure that proper laminar air flow ventilation maintain in lab, for generating a continuous flow of bacteria free air.
10. Use gloves and mask or use of PPE is necessary for both patient and health professionals.
11. Never use phone inside the unless it urgent.



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CCU LABORATORY SAFETY RULES

1. Use of flammable thing prohibited in CCU.
2. Always checked the power connections to prevent electrical hazards.
3. Properly check of all the equipment's weather they are malfunctioning, that can be risk to patients' life.
4. Checked the gas cylinders regularly to prevent gas leakage.
5. ECG machine should be checked regularly.
6. Use cotton fabric for clothing to prevent electrical hazards.
7. Make sure that patient body not to touch any metallic stuff while using of any electrical device or equipment to the patient.
8. Remove all the ornaments before going for ECG.
9. Do not eat and drink in lab.
10. Equipment's should be handle with care and safety.
11. Follow the biomedical (BM) guidelines.
12. Ensure that proper laminar air flow ventilation maintain in lab, for generating a continuous flow of bacteria free air.
13. Use gloves and mask or use of PPE is necessary for both patient and health professionals
14. Never use phone inside the unless it urgent



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DIALYSIS LABORATORY SAFETY RULES

1. Dialysis machine should be checked regularly.
2. Must be familiar with the fire safety.
3. You should learn fire safety rules and know how to manage at the time of fire hazard.
4. Turn off all the electrical appliances in case of any emergency.
5. Follow the biomedical waste management.
6. Always checked the power connections to prevent electrical hazards.
7. Wear gloves, mask, and apron or PPE (personal protective equipment) is necessary for both patient and health professionals.
8. Use of flammable thing prohibited in dialysis lab.



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PHYSIOTHERAPY LABORATORY SAFETY RULES

1. Ensuring the switches and fuses break the live wire
2. Ensure apparatus casing connected to earth
3. Insulation of Floor (Treatment Room)
4. Precaution of Water pipes or leakage of Water not to be near to the treatment area
5. Take care patient do not touch the apparatus while on treatment
6. Ensure the current used in the department is earth free
7. Proper history taking , Indication and contraindication of the patient
8. Proper Hand Hygiene is to be maintained by the Therapist
9. Cleaning, disinfecting and or sterilizing equipment appropriately with reference to Biomedical Waste Management Guidelines
10. Ensure that Planned maintenance of equipment and its safety
11. Availability of FIRST AID with Resuscitation
12. Display of hazard notices in areas of known risks or contraindication
13. Communication system is to be installed for the help in emergency situation
14. Fire Safety installation and Be sure to read all fire alarm and safety signs and follow the instructions in the event of an accident or emergency
15. Regulation of environment – temperature, humidity, ventilation and lighting
16. Waste Disposal Management in reference to Biomedical Waste Management



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ZOOLOGY LABORATORY

DOs (in the Lab)

1. Always follow the instructions of your teacher.
2. Do wear appropriate safety attire when in the lab-safety goggles, lab coat, shoes, etc.
3. Tie back long hair
4. Do keep your lab and office space clean and free of clutter.
5. Keep items in proper place and organized.
6. If there is a breakage / slippage, inform a teacher immediately.
7. Do maintain good lab cleanliness - it's for your own safety and convenience as well as for others!
8. Read the labels on reagent containers for safety precautions and understand the chemicals being used.
9. Do clean the working place after finishing your experiment.
10. Use special care when carrying heavy and expensive equipment such as microscopes.
11. Wash your hands after doing an experiment and before leaving the laboratory.

DO NOTs (in the Lab)

1. Do not enter the laboratory when your teacher is not there.
2. Do not wear open-toed shoes (sandals) in the lab.
3. Don't Clutter working place.
4. Do not eat or drink in the lab.
5. Do not play or fight in the laboratory.
6. Do not place drinking water bottle/ Cups in working place.
7. Don't keep Food fridge, coffee machine in laboratory.
8. Do not test any chemicals in the lab.
9. Do not sit on the tables.
10. Do not leave a flame unattended.
11. Do not throw solids/rubbish into the sink.



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ZOOLOGY LABORATORY SAFETY RULES

1. Never work alone in the laboratory without permission and prior knowledge of the instructor. Wear appropriate clothing at all times in the laboratory. Wear closed-toe shoes that cover the top of the foot, unless permission otherwise is given by the instructor.
2. If you have very long hair, please tie it back in the laboratory.
3. No food or drink is allowed in lab unless food or drinks are provided as a part of the lab. Even though lab tables and counters are wiped down before each lab set up, as a result of some laboratory exercises, chemical residues may be present on the tables.
4. Don't drink, eat, store food, apply cosmetics, manipulate contact lenses or smoke in the laboratory.
5. Don't store any food items in the laboratory refrigerators or freezers.
6. For labs exercises involving food or drinks, lab assistants and instructors will follow procedures that allow safe consumption.
7. Handle chemicals, reagents, and stains carefully and follow all warnings. All bottles and containers are labeled as to contents and potential hazards.
8. Always double-check the name of the reagent to be used and the name of the reagent you are using.
9. If glassware accidentally becomes broken, carefully clean it up with a broom and dustpan.
10. When using any equipment like centrifuge, spectro, hot air oven, incubator etc unplug them before you leave the lab.
11. Lab benches should be kept free of extraneous items while conducting experiments.
12. Students must assume that all of the organisms that they work with in this laboratory are potential pathogens (disease-producing microbes)
13. Do not use any lab equipment without instruction and authorization from the instructor. Report any damaged or broken equipment to your instructor immediately.
14. Become familiar with and utilize the information contained in the Institutional Bio-safety Manual.



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ENTOMOLOGY LABORATORY

SAFETY RULES

- 1. Follow all the instructions given by the lab instructor. Report all accidents, injuries and breakage of glass equipment to instructor immediately.**
- 2. Switch off electrical equipment after their use.**
- 3. Wash the glass wares and clean your working space after your use.**
- 4. Wear sensible clothing including footwear. Loose clothing should be secured so they do not get caught in a flame or chemicals.**
- 5. Work quietly- know what you are doing by reading the assigned experiment before you start to work. Pay close attention to any cautions described in the lab exercises.**
- 6. Do not taste or smell chemicals.**
- 7. Unauthorized experiments or procedure must not be attempted.**
- 8. Do not lean, hangover or sit on the laboratory tables.**
- 9. Do not leave your assigned lab station without the teacher's permission.**
- 10. Learn how to transport all chemicals and equipments safely. Do not lift any solution, glassware or other type of apparatus above eye level.**
- 11. No eating or drinking in the lab at any time.**
- 12. Injuries, acids and fire burns must be treated immediately.**
- 13. If any toxic chemical is swallowed, mouth must be rinsed with water.**
- 14. Skin contamination requires washing with water and removal of contaminated clothing, if required use soap and water.**
- 15. Learn the location of the fire extinguisher, eye wash station, first- aid kit and safety shower.**
- 16. Students found in violation of the safety rules will be barred from participating in future lab work and would result in suspension.**



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AGRICULTURAL EXTENSION LABORATORY

DO'S

1. Maintain silence in the laboratory
2. Keep the laboratory clean
3. Always bring laboratory manual, paper, pen, pencil etc.
4. Before leaving the lab shut down the system properly, keep accessories and chairs at their respective places.

DONT'S

1. Don't switch on the computers without permission
2. Don't roam in the laboratory unnecessarily
3. Don't come out from laboratory during the practical class
4. Don't leave your personal belongings.
5. Don't take food or beverages in the lab.



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CHEMISTRY LABORATORY SAFETY RULES

1. Safety first, use common sense to avoid accidents.
2. Always work with an approved laboratory coat (or apron) and eye protection.
3. Shoe (no sandals) must be worn all times. Bare feet or open shoe (front or back) are not permitted in the laboratory.
4. Avoid direct contact of toxic chemicals with eye and skin.
5. Use the glassware and equipment carefully
6. Learn about the use of the burner and fire extinguisher
7. Keep your work space clean and tidy. The working space desk, drawers, cabinets, instruments must be kept neat and clean at all times.
8. When lab work is completed, all materials must be returned to their proper places and used benches, instruments and glassware must be cleaned up.
9. Any student who has or who develops a medical condition (nausea, asthma, allergies, chemical/fire burn etc) should immediately inform the lab instructor/lab Asst.
10. Never work alone in the laboratory and also do not use electronic gazettes such as mobile, laptops, tablets, ear pods, ear cords etc. in the lab.
11. Before using any type of new chemical, seek the help of seniors or lab. Assistant.
12. Never preform new experiments alone and if you have any doubts regarding the set-up, please wait for the senior or demonstrator.
13. If you are not 100% sure about any equipment regarding its use, then please do not touch it and wait for the concerned person to appear in the lab.
14. Before leaving lab. make sure that all the instruments such as lights, fans, magnetic stirrer, weighing balance, heating mantel, chiller, rotavapor, vacuum, oven etc. are switched off.
15. Never ever throw your reaction mixture, solvents or any chemical waste in the sink.
16. Before throwing any chemical container (chemical bottles, tanks) the outside, first learn how to dispose it properly.
17. Any type of food items are not allowed inside the lab.
18. Before adding any reagents/chemicals to your reaction mixture, double check its name written on the bottle.



1. Wear disposable gloves, when handling hazardous materials. Remove the gloves before exiting the laboratory.
2. Immediately report any spills, accidents, or injuries to the concern person.
3. Wear a full-length, long-sleeved laboratory coat or chemical-resistant apron.
4. Be careful when handling hot glassware and apparatus in the laboratory.
5. Make sure no flammable solvents are in the surrounding area when lighting a flame.
6. Turn off all heating apparatus, gas valves, and water faucets when not in use.
7. Place chemical waste in appropriately labeled waste containers.
8. Properly dispose off broken glassware and other sharp objects immediately in designated containers.
9. Properly dispose of gloves, filter paper, and paper towels in the laboratory.
10. Never pour chemical waste into sink drains or wastebaskets.
11. Do not sit on laboratory benches.
12. Do not work with chemicals until you are sure of their safe handling.
13. Do not block the sink drains with debris.
14. Do not use damaged equipment.



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SOIL SCIENCE & AGRICULTURAL CHEMISTRY LAB

SAFETY RULES

1. Know the hazards of the chemicals you use, and how to deal with them.
2. Label all chemicals, solutions, wastes, and dispose of all chemicals properly.
3. Wear proper lab coats, gloves, shoes and safety glasses when handling hazardous chemicals.
4. Wash properly when a chemical has contacted skin, and on leaving the laboratory. Use emergency eyewash or/and shower whenever necessary immediately.
5. While at the lab bench, do not eat, drink, smoke, apply cosmetics, or pipette by mouth.
6. Know the location of the fire extinguisher, fire blanket, eyewash station, and first aid kit.
7. Chipped or cracked glassware should not be used. Show it to the teacher. Broken glassware should not be disposed of in a classroom trashcan. There is a special glass disposal container for it.
8. Follow the instructions of your teacher and Laboratory technician.



Department of Computer Science and Engineering

Safety Rules

1. Do not bring any food or drinks near the machine.
2. Turn off the machine once you are done using it.
3. Do not plug in external devices without scanning them for computer viruses.
4. Ensure that the temperature in the room stays cool, since there are a lot of machines inside labs these can overheat easily. These are the many ways of ensuring computer safety.
5. Try not to touch any of the circuit boards and power sockets when a device is connected to them and switched on.
6. Always maintain an extra copy of all your important data.
7. Students should not attempt to repair, open, tamper or interfere with any of the computer, printing, cabling, air conditioning or other equipment in the laboratory.