

Electronic and Electrical Engineering Dept.

Safety Procedure Form

Microelectronics Technology Laboratory

All students must read the following precautions before commencing any work in the laboratory.

The following points **MUST** be observed meticulously.

1. Everyone in the laboratory must wear a laboratory coat
2. Heavy duty acid resistant gloves, PVC apron and face guard **MUST ALWAYS** be worn while working with acids. All gloves must be washed in water and dried before removing them.
3. Students **MUST NOT** use acids without having had instruction from the person in charge in the Laboratory.
4. Furnaces are extremely hot. **DO NOT TOUCH** any hot quartz ware without using heat resistant gloves provided.
5. Quartz ware must not be touched with bare hands. Sodium from salts on skin causes serious damage to devices and quartz ware.
6. Students **MUST WEAR** disposable gloves at all times while handling wafers.
7. In the photolithography room are two hot plates, that are in excess of 100 C. Be careful when working near them.
8. Students **MUST WEAR** gloves when handling all Chemicals in the laboratory.
9. No overcoats, raincoats or food are allowed in the laboratory, these may be left in the entrance hall.
10. Do not leave valuables in unattended areas.

Some extremely dangerous substances, such as Hydrofluoric Acid (HF) and fuming nitric acid (HN03) are used in this Laboratory. (A pamphlet on the notice board describes the dangers associated with HF). It is therefore imperative for the safety of everyone that due care in the handling of wet chemicals is exercised. All accidents no matter how trivial must be reported to the demonstrator immediately. In particular, any acid spillages or accidental contact with acids to persons. If you are in doubt about any task or procedure you have been asked to perform **PLEASE ASK**.

Student Signature

Class

Demonstrator Signature

Date