



Heat and Mass Transfer Lab

Mechanical and Production Engineering Department

Ahsanullah University of Science & Technology (AUST)

General Lab Safety Rules

Wear PPE: Lab coat, safety goggles, gloves, and closed-toe shoes are mandatory.

No Unauthorized Entry: Only authorized students and staff are allowed in the lab.

Keep Workspace Clean: Ensure all equipment is stored properly and workspaces are clean after experiments.

No Eating or Drinking: Food and drinks are strictly prohibited to avoid contamination.

Accident and Health Hazard Provisions

First Aid Kit: Familiarize yourself with its location and basic first aid procedures.

Fire Safety: Know the emergency exits and fire alarm locations. Evacuate immediately if a fire cannot be controlled.

Incident Reporting: Report accidents immediately to the lab In-Charge. Investigations will be conducted to prevent future incidents

Safety Procedures for Specific Equipment

Thermal Conductivity Meter (Metal Bars): Handle with care; avoid touching heated components. Use heat-resistant gloves when necessary.

Natural & Forced Convection (Pin & Plate Fins): Ensure proper ventilation to prevent overheating during experiments. Avoid direct contact with heated surfaces.

Parallel and Counter Flow Heat Exchangers: Always check for any leaks in the fluid system before starting the experiment. Monitor temperature and pressure closely to avoid dangerous conditions.

Transient Heat Transfer Equipment: Allow components to cool before handling them after the experiment. Ensure all electrical connections are secure before powering on equipment.

Mass Diffusivity Meter: Handle liquids and chemicals according to lab protocols. Use fume hoods where necessary to avoid inhaling hazardous materials.

Lab Contact Information

Lab In-Charge: Dr. Fazlar Rahman

Emergency Contact: [LA: 01680609039, AAO: 01534100141]

REMEMBER: Safety First! Always adhere to lab safety protocols.