



WEIR Lab- GENERAL GUIDELINES

Water and Energy Infrastructure Research Laboratory

Kathmandu University, Dhulikhel, Kavre

Purpose and Scope

The WEIR Lab is a research facility dedicated to physical and numerical modeling of hydraulic, hydropower, and river engineering systems. These guidelines ensure efficient, safe, and impactful use of the lab resources by students, faculty, and collaborators.

Lab Access and Entry Policy

- Only authorized personnel, enrolled students, or approved visitors are allowed entry.
- Access must be supervised by a faculty member or lab member during working hours.
- Personal protective equipment (PPE) must be worn when required.

Lab Conduct and Safety

- Follow standard operating procedures for each equipment or experiment.
- Report any unsafe condition, damage, or malfunction immediately to the Lab Coordinator.
- Maintain cleanliness- return all tools and equipment to their designated places.
- Avoid eating, drinking, or using mobile phones near sensitive instruments.
- First-aid kits and emergency contacts are available near the office entrance.

Project Proposal and Approval

- All projects must be proposed formally and approved by the Lab Director or assigned faculty.
- Submit a Lab Work Plan detailing: objectives, methodology, timeline, resources, and expected outcomes.
- Students must have a supervisor who is accountable for their project execution and safety.

Research and Experimentation Guidelines

- Physical models (e.g., Upper Sanjen, inline turbine) must not be modified without approval.
- Calibrate equipment before and after use as per instructions.
- Document all readings, tests, and calibration procedures in the Logbook.
- For numerical simulations, follow software licensing guidelines and back up files regularly.

Use of Resources and Equipments

- Use only the equipment and materials you are trained or authorized to handle.
- Do not remove lab property from premises without permission.
- Water pumps and tanks must be operated under supervision and drained properly after use.
- Power supply systems (e.g., induction motor) must be switched off when not in use.

Data Management and Publication

- All data generated within the lab must be shared with the supervising faculty.
- Use standardized formats for data recording and storage.
- For academic publication, WEIR Lab must be acknowledged appropriately.
- Any proprietary or sensitive data must be handled as per KU's research ethics guidelines.

Student Roles and Responsibilities

- Participate in WEIR Synergy think tank sessions and collaborative reviews.
- Attend mandatory lab orientation and technical training sessions.
- Prepare interim and final reports as per the research/project timeline.
- Actively maintain interdisciplinary communication with other research teams.

Maintenance and Housekeeping

- Clean up all workstations, spillages, or sediments after testing.
- Water tanks and channels must be cleaned and flushed out monthly.
- Equipment inventory shall be updated annually.
- Report any requirement for maintenance or replacement.

Collaboration and External Use

- External researchers or industry partners must sign a MoU or project agreement.
- External use of the lab requires payment of fees and a dedicated KU liaison officer.
- All collaborative work must adhere to Kathmandu University's policies on intellectual property, safety, and ethics.

These guidelines are designed to foster a professional, productive, and collaborative environment in the WEIR Lab. By following them, we ensure the lab remains a center of excellence in water and energy infrastructure research.



Contact for Support

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