

UMPSA LAB PROFILE

FTKA

**Hydraulic
and
Hydrology
Lab**

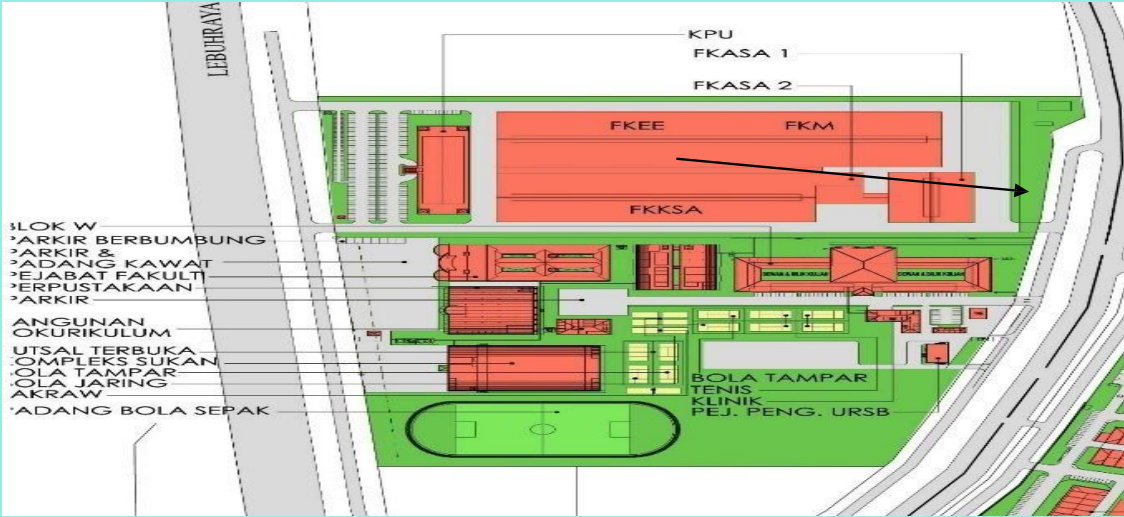


Version

28 April 2026

BASIC INFORMATION

Location:
Block TTI



Block TTI
Hydraulic and
Hydrology
Laboratory

Person in charge:

No	Nama	Email & Tel No
1	Jasrul Izwan bin Jaafar Sidek	+60129843437 jasrul@ump.edu.my
2	Kamariah binti Mat Peah	+60199865532 kamaria@ump.edu.my
3	Syed Najmuddin bin Sy Mohamad Nordin	+60189094940 najmuddin@ump.edu.my

BASIC INFORMATION

Location:

RUANG KERJA MAKMAL
HIDRAULIK & HIDROLOGI

No	Item	Status
1	Area	864m ₂
2	Supply	1 phase 3 phase
3	Communication point	Network
4	Discussion room	Av system 1 nos LCD projector 1 set PA system 1 nos aircond area (35.046m ₂)
5	Store	Yes 1 Hydraulic apparatus store(48m ₂) 1 Hydrology apparatus store(48m ₂)
6	Office	58.4m ₂

LIST OF EQUIPMENTS

Nature of Equipments

- This lab consist of research , teaching & learning equipments for Fluid Mechanics, Hydraulics & Hydrology for undergraduate & postgraduate students.

No	Item	Quantity	Status	usage
1	Glass Sided Tilting Flume/ Open Flow Channnel-Armfield	1	ok	T&L & Rnd
2	Glasss Sided Tilting Flume/Open Channel-TQ	1	ok	T&L & Rnd
3	Open Flow Channel (10m)-TQ	1	ok	T&L & Rnd
4	Losses In Pipe Apparatus-TQ	1	ok	T&L
5	Flow Over Weir Apparatus-TQ	1	ok	T&L
6	Series & Parallel Pump-Gunt	1	ok	T&L
7	Storm Hydrograph-TQ	1	ok	T&L & Rnd

T&L : teaching and learning

R&D : research and development

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No	Item	Quantity	Status	usage
8	Series & Parallel Pump-Gunt	1	ok	T&L
9	Storm Hydrograph-Gunt	1	ok	T&L
10	Impact Of Jet-Armfield	1	ok	T&L
11	Bernoulli's Principle Demonstrator-TQ	1	ok	T&L
12	Hydrostatic Pressure-TQ	1	ok	T&L
13	Dead Weight Pressure Gauge Calibrator-Armfield	1	ok	T&L
14	Electronic Balance	1	ok	T&L
15	Boat 5HP	1	ok	T&L
16	Boat-EXPLORER	1	ok	T&L

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No	Item	Quantity	Status	usage
17	Series & Parallel Pump – Armfield	1	ok	T&L
18	Hydrostatics & Properties Of Fluid Apparatus-TQ	1	ok	T&L
19	Losses In Piping System-TQ	1	ok	T&L
20	Water Leak Detector	3	ok	T&L
21	Leak Noise Correlator	3	ok	
22	Pipe & Cable Locator	3	ok	T&L

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R&D : research and development

LIST OF SERVICES

Rental



ACTIVITIES

Teaching and Learning

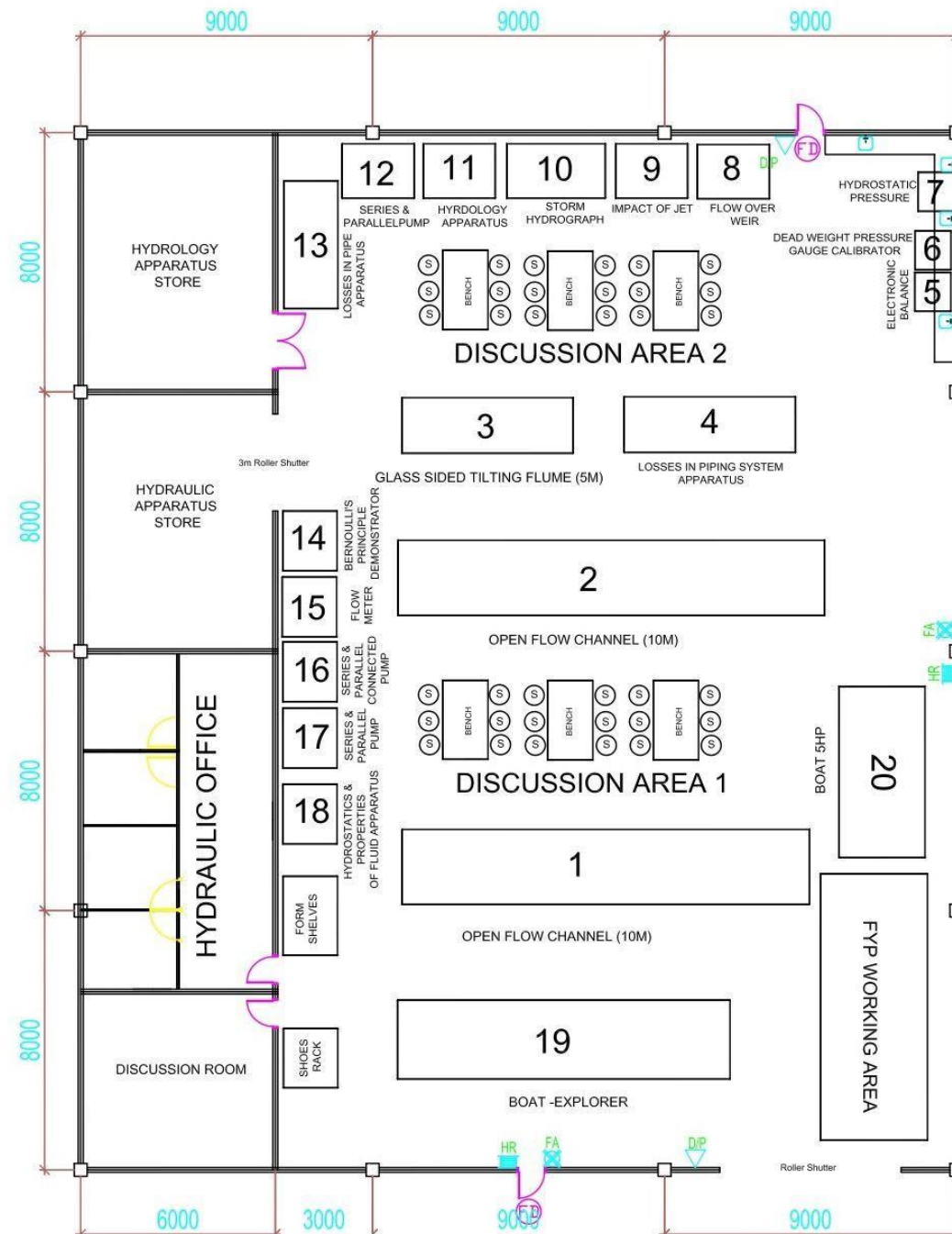


ACTIVITIES

Research,
Final year
project and
Site Visit



LAB LAYOUT



LAB PICTURES



OTHER INFORMATIO N

This space is used for discussions among group members before starting the testing session, allowing them to share their views and suggestions. This space is also utilized by students to carry out all experiments in the Hydraulics and Hydrology Laboratory.