

HIRARC FORM

Faculty/School/Unit/Laboratory/Workshop: Work Process:		Malaysia-Japan International Institute of Technology (MJIIT) Final Year Project (FYP) 2023			(Name, Designation, Signature)		Lim Ming Jun (Student)			
							From: 9 October 2023 Until: 28 July 2024			
Location/Block:		Bio-Ist Lab, lvl7 MJIIT								
Approved by: (Name, Designation, Signature)		AP. Dr. Shahrum Shah bin Abdullah (FYP Supervisor)			Reviewed by: (Name, Designation, Signature)					
Annr	oval Date :	31.10.2023			Review Date:					
					Next Review Date:					
	1. HAZARD I	DENTIFICATION		2. RISK ANALYSIS				3. RISK CONTROL		NTROL
No.	Activities (Routine / Non-Routine)	Actual and Potential Hazards	Which can Cause Potential Consequences / Risk Effects	Existing Control Measures	Likelihood (A)	Severity (B)	Risk Level (A) x (B)	Legal & Other Requiremen ts	Additional / Recommended Control Measures	Person In Charge (Due Date / Status)
1	Working in student room	Old electrical equiments	Power leakage	Ensure connection is done properly	1	3	3	L5	Replace with new equipment	;
2	Research / Programming	Long time infront of computer	Musculoskeletal Disorder	Proper Sitting Posture	4	1	4	L1	Ergonomics Training	
3	Building Electronics Hardware	Short circuiting	Burn or low voltage electrocution	Wear Insulating Gloves	3	1	3	L1	Read Datasheets Carefully	
4	Quadcopter Testing	Lost controlled quadcopter	Injury to body and eyes	Wear Safety Goggles and lab coat	4	3	12	L1	Limit degree of freedom of quadcopter	
5										
6										

Likelihood (A)

- 5 Most Likely (The most likely result of the hazard / event being realized)
- 4 Possible (Has a good chance of occurring and is not unusual)
- 3 Conceivable (Might be occur at sometime in future)
- 2 Remote (Has not been known to occur after many years)
- 1 Inconceivable (Is practically impossible and has never occurred)

Legal & Other Requirements

- L1 Occupational Safety and Health Act 1994 (Act 514)
- L2 -Factories and Machinery Act 1967 (Act 139)
- L3 Atomic Energy Licensing Act 1984 (Act 304)
- L4 Biosafety Act 2007 (Act 678)
- L5 Electricity Supply Act 1990 (Act 447)
- L6 Fire Service Act 1988 (Act 341)
- L7 Others Act & Regulation (Specify)
- L8 NIL (Not In List)

Severity (B)

- 5 Catastrophic (Numerous fatalities, irrecoverable property damage and productivity)
- 4 Fatal (Approximately one single fatality major property damage if hazard is realized)
- 3 Serious (Non-fatal injury, permanent disability)
- 2 Minor (Disabling but not permanent injury)
- 1 Negligible (Minor abrasions, bruises, cuts, first aid type injury)

Hierarchy of Control

- 1 Elimination
- 2 Substitution
- 3 Isolation
- 4 Engineering Control
 5 Administration Control
- 6 Personal Protective Equipment (PPE)

Risk Level

5-12 (Medium)