

## HIRARC FORM

<b>Faculty/School/Unit/Laboratory/Workshop:</b>		MAKMAL GEODESI & ASTRONOMI			<b>Conducted by:</b> (Name, Designation, Signature)		MOHD SHAHRUL BIN BAHAROM PENOLONG JURUTERA				
<b>Work Process:</b>					<b>Conducted Date:</b>		From: 1 JANUARI 2020		Until: 31 DISEMBER 2020		
<b>Location/Block:</b>		ARAS 1, BLOK C05									
<b>Approved by:</b> (Name, Designation, Signature)		Sr DR. OTHMAN BIN ZAINON PENYELARAS MAKMAL			<b>Reviewed by:</b> (Name, Designation, Signature)						
<b>Approval Date :</b>					<b>Review Date:</b>						
					<b>Next Review Date:</b>						
1. HAZARD IDENTIFICATION				2. RISK ANALYSIS				3. RISK CONTROL			
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	pergerakan staf di dalam makmal	wayar internet tidak sempurna di lantai	kaki tersangkut, terjatuh	tutup dengan warning tape	2	1	2	L5	buat penyambungan baru	Hafizatul Izan bin Md Paimi	
2		wayar kipas dinding tidak sempurna	kipas tidak berfungsi , bekalan elektrik terputus	wiring diperkemaskan	2	2	4	L5	buat penyambungan baru	Hafizatul Izan bin Md Paimi	
3		karpet berhabuk	batuk	pasang aircond	1	1	1	L8	vacum karpet setiap minggu	Mohd Shahrul bin Baharom	
4	amali padang pelajar	peralatan ukur terjatuh	kecuaihan pelajar	taklimat/demo pengendalian peralatan sebelum penggunaan	2	2	4	L1	nasihat tambahan semasa kerja amali di padang	Mohd Shahrul bin Baharom	
5		cedera terkena peralatan ukur	pelajar tidak patuh arahan (berkasut)	tidak benarkan penggunaan peralatan kepada yang tidak patuh arahan	2	2	4	L1	nasihat tambahan supaya ikut peraturan	Mohd Shahrul bin Baharom	
6		peralatan ukur tiada kotak khas (GPS Net R9)	aksesori peralatan tidak tersusun, mungkin hilang	guna kotak yang sediaada buat sementara	2	1	2	L8	kotak khas diperlukan untuk minimumkan kerosakan dan kehilangan aksesori	Hafizatul Izan bin Md Paimi	
7		lalu ke tapak kalirasi alat terlalu bahaya (semak)	kecederaan kepada pelajar, terdapat haiwan berbahaya	kawalan kebersihan perlu dibuat secara berkala	3	3	9	L1	pembersihan menyeluruh setiap 6 bulan sekali	Mohd Shahrul bin Baharom	
8		kawasan amali (balai cerap bhgn atas) lantai rosak dan kotor	terjatuh	tutup sementara dengan kotak	3	3	9	L1	perlu penyelenggaraan yang maksimum	Hafizatul Izan bin Md Paimi	
9	kenderaan makmal	kerangka bahagian atas simpanan barang berkarat	rosak dan tidak boleh digunakan	letak kenderaan di tempat redup	2	1	2	L8	perlu tempat letak kenderaan yang berbumbung	Hafizatul Izan bin Md Paimi	

**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)

**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**

- 1-4 (Low)  
 5-12 (Medium)  
 15-25 (High)

**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)