				National University experimental-based risk		m				
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	desearch Area plasmonics		_Name of PI		Asst Prof Andrew Bettiol					
			Name of Activity/Experimer	Experiment-Based Risk Assessment Form t characterization by leakage radiation mi			ition microscopy			
No	Desription/Details of Hazards Possible			Existing Risk Control	Likelihood Risk Level Additional			Person	By (Date)	
	Steps in Activity		ill Health & Persons- at-Risk	(Mitigation)	,	(Probability)	(severity x	Risk Control	Responsible	_, (,
1	laser alignment	laser light	Laser light shining dir ectly into eyes can ca use permanent blindn ess	googles of appropriate	2	1	2			
		Fire hazard	beam	Always close the la ser shutter when the laser is not in use     Reduce the power to minimum during lase r alignment     Cover the beam path when laser is in use     Not flammable substances or paper should be placed in the beam path.     Use metal shields to block relected/scatte	2	1	2			
		Reflected/ Scattered laser light	Reflected laser light can cause permanent blindness.	No jewellery or wrist watch is allowed when working with lasers.     'LASER IN USE' sig n lighted when laser w ork is carried out.	2	1	2			
		Focused laser light using objectives	Focused laser spot can ignite paper and cause fire.	Use IR Card for alignment instead of paper. Reduce the laser power down to 50 mW before alignment.	1	1	1			
2	using optical microscope	reflected laser from sample to eyepiece	reflected laser light can cause blindness	eyepiece is covered when laser is on.     suse camera to image	2	1	2			
3		strong illumination from beam splliter	high light intensity can cause damage to eyes	the splitter is covered.	2	1	2			
	Conducted By Yang Chengyuan			Approved By						
			Coh Tian	NI	Asst Prof Andrew Bettiol					
			Goh Tian	Name		ASSI PTUI AHUTEW E	DEUIUI			
				Signature						
				_ Approval date						
				Result	competent	_				