NATIONAL UNIVERSITY OF SINGAPORE FACULTY OF SCIENCE

Activity-Based Risk Assessment Form										
	Name of Department	•		_Name and Location of Lab _Name of PI		<u>\$7-04</u>				
	Name of Laboratory					Dr Foo Maw Lin				
	Name of Researcher/LO	Leng Zhi Jin, Wong Ling Rong		Name of Activity/Experiment		CM3292, CM5176 GIST Electrical Characterization of Solar and Hydrogen Fuel				
No	Description/Details of Steps in Activity	Hazards	Possible Accident / III Health & Persons-at-Risk	Existing Risk Control (Mitigation)	Severity	Likelihood (Probability)	Risk Level	Additional Risk Control	Person Responsible	By (Date)
1	Operation of the solar cell by using lamp illumination	Illumination hazard: light from 150 W halogen lamp	temporary blindness and eye damage	Black cloth is used to isolate stray light from the lamp. Polarized safety glasses must be worn when switching the lamp on and off.	2	1	2			
		Electrical hazard	Electrocution	Wires are colour coded and insulated.	1	1	1			
2	Operation of hydrogen fuel cell	Flammable hazard: hydrogen	Fire (flammability lower limit: 4% by vol)	Any evolved hydrogen is immediately drawn out by exhaust overhead venting at 1 m/s. The exhaust is checked to be working before experiment. No open flames are allowed in lab.	2	1	2			
		Electrical hazard	Electrocution	Wires are colour coded and insulated	1	1	1			
Conducted By Name Dr. Foo Maw Lin Signature				Approved By Name Assoc Prof Jason Yeo Signature						
Date			Approval date 11-Jun-22		:		Next Revision date (Maximum 3 years)	10-Jun-25		