



COURSE SCHEDULE

SEDA Malaysia Off-Grid Photovoltaic (OGPV) Systems Design Course

DAY	TIME	SUBJECT	DESCRIPTION
1	0900 ~ 0930	Lecture	Welcoming and Course Outline
	0930 ~ 1030	Lecture	Introduction and overview of OGPV Systems
	1030 ~ 1050	Break	Refreshment is provided
	1050 ~ 1245	Lecture	Review of electricity; Review of earth-sun geography
	1245 ~ 1400	Break	Lunch is provided
	1400 ~ 1700	Lecture	Basic solar engineering: earth-sun collector geometry; Availability of solar energy
	1700 ~ 1720	Break	Refreshment is provided
2	0900 ~ 1030	Tutorial	Exercises based on previous work
	1030 ~ 1050	Break	Refreshment is provided
	1050 ~ 1245	Lecture	Photovoltaic technology: Introduction; PV cells; Modules; Datasheets; Standards; Array configuration
	1245 ~ 1400	Break	Lunch is provided
	1400 ~ 1700	Lecture	Grid interactive inverter: Introduction; Types; Datasheets; Standards
	1700 ~ 1720	Break	Refreshment is provided
3	0900 ~ 1030	Tutorial	Exercises based on previous work
	1030 ~ 1050	Break	Refreshment is provided
	1050 ~ 1245	Lecture	Design and sizing of OGPV systems: Solar and load assessment; Matching of battery to load; Dimensioning of PV to battery
	1245 ~ 1400	Break	Lunch is provided
	1400 ~ 1700	Lecture	Design and sizing of OGPV systems: continue..
	1700 ~ 1720	Break	Refreshment is provided



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4	0900 ~ 1030	Tutorial	Exercises based on previous work
	1030 ~ 1050	Break	Refreshment is provided
	1050 ~ 1245	Lecture	Design and sizing of OGPV systems: BOS components
	1245 ~ 1400	Break	Lunch is provided
	1400 ~ 1500	Lecture	Design and sizing of OGPV systems: continue..
	1700 ~ 1720	Break	Refreshment is provided
5	0900 ~ 1030	Practical	Exercises based on previous work
	1030 ~ 1050	Break	Refreshment is provided
	1050 ~ 1215	Practical	Appreciation of lightning protection system (LPS): Air termination; LPS for small systems & large systems; Indirect lightning; LPS materials
	1215 ~ 1445	Break	Lunch is provided
	1445 ~ 1700	Practical	Installation; Testing & Commissioning (T&C); Acceptance; Operation, Maintenance and Fault Finding
	1700 ~ 1720	Break	Refreshment is provided
6	0900 ~ 1030	Practical	Solar assessment; PV module measurements; Wiring; T&C
	1030 ~ 1050	Break	Refreshment is provided
	1050 ~ 1245	Practical	Solar assessment; PV module measurements; Wiring; T&C
	1245 ~ 1400	Break	Lunch is provided
	1400 ~ 1700	Practical	Solar assessment; PV module measurements; Wiring; T&C
	1700 ~ 1720	Break	Refreshment is provided
7	0900 ~ 1030	Practical	Solar assessment; PV module measurements; Wiring; T&C
	1030 ~ 1050	Break	Break
	1050 ~ 1245	Practical	Solar assessment; PV module measurements; Wiring; T&C
	1245 ~ 1400	Break	Break
	1400 ~ 1700	Open Session	Open session
	1700 ~ 1720	Break	Refreshment is provided



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DAY	TIME	SUBJECT	DESCRIPTION
8	0900 ~ 1030	Exam	Practical [one-on-one demonstration and interview]
	1030 ~ 1050	Break	Break
	1050 ~ 1245	Exam	Practical [one-on-one demonstration and interview]
	1245 ~ 1400	Break	Break
	1400 ~ 1700	Exam	Practical [one-on-one demonstration and interview]
	1700 ~ 1720	Break	Refreshment is provided
9	0900 ~ 1030	Exam	Practical [one-on-one demonstration and interview]
	1030 ~ 1050	Break	Break
	1050 ~ 1245	Exam	Practical [one-on-one demonstration and interview]
	1245 ~ 1400	Break	Break
	1400 ~ 1700	Exam	Practical [one-on-one demonstration and interview]
	1700 ~ 1720	Break	Refreshment is provided
10	0900 ~ 1200	Examination	Part B (Design) - Comprehensive Open Book
	1200 ~ 1500	Break	Lunch is provided
	1500 ~ 1600	Examination	Part A (Fundamental) – Comprehensive Open Book
	1600 ~ 1630	Break	Refreshment is provided