



COURSE SCHEDULE

SEDA Malaysia Grid-Connected Photovoltaic (PV) Systems Design Course (Face-to-face Mode)

DAY	TIME	BOOK	CHAPTER	DESCRIPTION
1	09:00 – 09:15	Opening and Course Outline		
	09:15 – 10:45	Fundamental of Solar PV	Chapter 1	Safety Practices
		Fundamental of Solar PV	Chapter 2	Basic Electricity
	10:45 – 11:00	Break		
	11:00 – 12.30	Fundamental of Solar PV	Chapter 3	Introduction to Photovoltaic System
	12:30 – 14:00	Lunch		
	14:00 – 15:30	Fundamental of Solar PV	Chapter 4	Basic Solar Engineering
	15:30 – 15:45	Break		
15:45 – 17:00	Fundamental of Solar PV	Chapter 4	Basic Solar Engineering (continue)	
2	09:00 – 10:30	Fundamental of Solar PV	Chapter 5	Photovoltaic Technology
	10:30 – 10:45	Break		
	10:45 – 12:30	Fundamental of Solar PV	Chapter 6	Mounting structure
		Fundamental of Solar PV	Chapter 7	Other BOS components
		Fundamental of Solar PV	Chapter 8	End of life issues
	12:30 – 14:00	Lunch		
	14:00 – 15:30	Fundamental of Solar PV	Chapter 9	Concept of lightning protection system
	15:30 – 15:45	Break		
15:45 – 17:00	Fundamental of Solar PV	Chapter 9	Concept of lightning protection system	
3	09:00 – 10:30	Design & Sizing of GCPV	Chapter 1	GCPV system
		Design & Sizing of GCPV	Chapter 2	Grid interactive inverter
	10:30 – 10:45	Break		
	10:45 – 12:30	Design & Sizing of GCPV	Chapter 3	Dimensioning of PV array
	12:30 – 14:00	Lunch		
	14:00 – 15:30	Design & Sizing of GCPV	Chapter 4	Sizing with string or central inverter
	15:30 – 15:45	Break		
	15:45 – 17:00	Design & Sizing of GCPV	Chapter 4	Sizing with string or central inverter (continue)



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DAY	TIME	BOOK	DESCRIPTION
4	09:00 – 10:30	Design & Sizing of GCPV	Sizing with microinverter
	10:30 – 10:45	Break	
	10:45 – 12.30	Design & Sizing of GCPV	Sizing with DC optimiser
	12:30 – 14:00	Lunch	
	14:00 – 15:30	Design & Sizing of GCPV	System performance and evaluation
	15:30 – 15:45	Break	
	15:45 – 17:00	Design & Sizing of GCPV	System performance and evaluation
5	09:00 – 10:30	Fundamental of Solar PV	Tutorial
	10:30 – 10:45	Break	
	10:45 – 12.30	Fundamental of Solar PV	Tutorial
	12:30 – 14:00	Lunch	
	14:00 – 15:30	Design & Sizing of GCPV	Tutorial
	15:30 – 15:45	Break	
	15:45 – 17:00	Design & Sizing of GCPV	Tutorial
6	09:00 – 17:00	Practical	Practical exercises
7	09:00 – 17:00	Practical Exam	Practical Exam
8	09:30 – 12:30	Theory Exam GCPV Design	Theory Exam
	12:30 – 14:00	Lunch	
	14:00 – 16:00	Theory Exam Fundamental	Theory Exam



SEDA Malaysia *Grid-Connected Photovoltaic Systems Design (Mixed Mode)*

Online:

DAY	TIME	BOOK	CHAPTER	DESCRIPTION
1	09:00 – 09:15	Opening and Course Outline		
	09:15 – 10:30	Fundamental of Solar PV	Chapter 1	Safety Practices
		Fundamental of Solar PV	Chapter 2	Basic Electricity
	10:30 – 10:40	Break		
	10:40 – 12:10	Fundamental of Solar PV	Chapter 2	Basic Electricity (continue)
	12:10 – 12:30	Fundamental of Solar PV	Chapter 3	Introduction to Photovoltaic system
	12:30 – 14:00	Lunch		
14:00 – 16:00	Fundamental of Solar PV	Exercise	In class exercises and open session	
2	09:00 – 10:20	Fundamental of Solar PV	Chapter 4	Basic Solar Engineering
	10:20 – 10:30	Break		
	10:30 – 12:30	Fundamental of Solar PV	Chapter 5	Photovoltaic Technology
	12:30 – 14:00	Lunch		
	14:00 – 16:00	Fundamental of Solar PV	Exercise	In class exercises and open session
3	09:00 – 10:20	Fundamental of Solar PV	Chapter 6	Mounting structure
	10:20 – 10:30	Break		
	10:30 – 12:30	Fundamental of Solar PV	Chapter 7	Other BOS components
	12:30 – 14:00	Lunch		
	14:00 – 16:00	Fundamental of Solar PV	Exercise	In class exercises and open session
4	09:00 – 09:15	Fundamental of Solar PV	Chapter 8	End of life issues
	09:15 – 10:30	Fundamental of Solar PV	Chapter 9	Concept of lightning protection system
	10:30 – 10:40	Break		
	10:40 – 12:15	Fundamental of Solar PV	Chapter 9	Concept of lightning protection system (continue)
	12:15 – 12:30	Design & Sizing of GCPV	Chapter 1	GCPV system
	12:30 – 14:00	Lunch		
	14:00 – 16:00	Design & Sizing of GCPV	Exercise	In class exercises and open session
5	09:00 – 10:30	Design & Sizing of GCPV	Chapter 2	Grid interactive inverter
	10:30 – 10:40	Break		
	10:40 – 12:30	Design & Sizing of GCPV	Chapter 3	Dimensioning of PV array
	12:30 – 14:00	Lunch		
	14:00 – 16:00	Design & Sizing of GCPV	Exercise	In class exercises and open session



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DAY	TIME	BOOK	CHAPTER	DESCRIPTION
6	09:00 – 10:30	Design & Sizing of GCPV	Chapter 4	Sizing with string or central inverter
	10:30 – 10:40	Break		
	10:40 – 12:30	Design & Sizing of GCPV	Chapter 4	Sizing with string or central inverter (continue)
	12:30 – 14:00	Lunch		
	14:00 – 16:00	Design & Sizing of GCPV	Exercise	In class exercises and open session
7	09:00 – 10:00	Design & Sizing of GCPV	Chapter 5	Sizing with microinverter
	10:00 – 11:00	Design & Sizing of GCPV	Chapter 6	Sizing with DC optimiser
	10:20 – 10:30	Break		
	10:30 – 12:30	Design & Sizing of GCPV	Chapter 7	System performance and evaluation
	12:30 – 14:00	Lunch		
	14:00 – 16:00	Design & Sizing of GCPV	Exercise	In class exercises and open session

Face-to-face:

DAY	TIME	BOOK	DESCRIPTION
8	09:00 – 10:30	Fundamental of Solar PV	Tutorial
	10:30 – 10:45	Break	
	10:45 – 12.30	Fundamental of Solar PV	Tutorial
	12:30 – 14:00	Lunch	
	14:00 – 15:30	Design & Sizing of GCPV	Tutorial
	15:30 – 15:45	Break	
	15:45 – 17:00	Design & Sizing of GCPV	Tutorial
9	09:00 – 17:00	Practical	Practical exercises
10	09:00 – 17:00	Practical Exam	Practical Exam
11	09:30 – 12:30	Theory Exam GCPV Design	Theory Exam
	12:30 – 14:00	Lunch	
	14:00 – 16:00	Theory Exam Fundamental	Theory Exam