



AGENDA

PV System Designer and Installer

Start Date	2 nd November 2020
Finish Date	26 th November 2020
Location	University of Cyprus (New Campus) 1 Panepistimiou Avenue, 2109, Aglantzia, Nicosia
Duration	40 hours (25 theoretical, 15 practical)

Day 1 – Theoretical Part November 2, 2020

Seminar Room:	University of Cyprus (New Campus) Room LRC019, Learning Resource Centre "Stelios Ioannou"
Trainer:	Mr Nikolas Chatzigeorgiou / Dr George E. Georghiou

Start Time	Stop Time	Duration (hours)	Content	Trainer
09:00	10:00	1:00	Unit 1: Basic theory of solar energy	Mr Nikolas Chatzigeorgiou Dr George E. Georghiou
10:00	11:30	1:30	Unit 2: Introduction to Photovoltaics	Mr Nikolas Chatzigeorgiou Dr George E. Georghiou
11:30	12:00	0:30	Coffee break	
12:00	13:00	1:00	Unit 3: PV potential	Mr Nikolas Chatzigeorgiou Dr George E. Georghiou
13:00	14:00	1:00	Lunch break	
14:00	15:30	1:30	Unit 4: Legislation and market schemes	Mr Nikolas Chatzigeorgiou Dr George E. Georghiou
15:30	15:40	0:10	Discussion – Q&A	Mr Nikolas Chatzigeorgiou Dr George E. Georghiou



Day 2 – Theoretical Part
November 5, 2020

Seminar Room: University of Cyprus (New Campus)
LRC 012, Learning Resource Centre "Stelios Ioannou"
Trainer: Mr Nikolas Chatzigeorgiou / Dr George E. Georghiou

Start Time	Stop Time	Duration (hours)	Content	Trainer
09:00	10:00	1:00	Unit 5: PV technologies, technical characteristics and specifications	Mr Nikolas Chatzigeorgiou Dr George E. Georghiou
10:00	11:30	1:30	Unit 6: PV system types	Mr Nikolas Chatzigeorgiou Dr George E. Georghiou
11:30	12:00	0:30	Coffee break	
12:00	13:00	1:00	Unit 7: BIPV and BAPV systems	Mr Nikolas Chatzigeorgiou Dr George E. Georghiou
13:00	14:00	1:00	Lunch break	
14:00	15:30	1:30	Unit 8: PV system design principles	Mr Nikolas Chatzigeorgiou Dr George E. Georghiou
15:30	15:40	0:10	Discussion – Q&A	Mr Nikolas Chatzigeorgiou Dr George E. Georghiou



Day 3 – Theoretical Part
November 12, 2020

Seminar Room: University of Cyprus (New Campus)
LRC 012, Learning Resource Centre "Stelios Ioannou"
Trainer: Mr Nikolas Chatzigeorgiou / Dr George E. Georghiou

Start Time	Stop Time	Duration (hours)	Content	Trainer
09:00	10:00	1:00	Unit 9: Health and safety	Mr Nikolas Chatzigeorgiou Dr George E. Georghiou
10:00	11:30	1:30	Unit 9: Health and safety	Mr Nikolas Chatzigeorgiou Dr George E. Georghiou
11:30	12:00	0:30	Coffee break	
12:00	13:00	1:00	Unit 10: PV system dimensioning and site survey	Mr Nikolas Chatzigeorgiou Dr George E. Georghiou
13:00	14:00	1:00	Lunch break	
14:00	15:30	1:30	Unit 11: Correct system installation	Mr Nikolas Chatzigeorgiou Dr George E. Georghiou
15:30	15:40	0:10	Discussion – Q&A	Mr Nikolas Chatzigeorgiou Dr George E. Georghiou



Day 4 – Theoretical Part
November 13, 2020

Seminar Room: University of Cyprus (New Campus)
Room LRC014, Learning Resource Centre "Stelios Ioannou"
Trainer: Mr Nikolas Chatzigeorgiou / Dr George E. Georghiou

Start Time	Stop Time	Duration (hours)	Content	Trainer
09:00	10:00	1:00	Unit 12: Real PV system designs	Mr Nikolas Chatzigeorgiou Dr George E. Georghiou
10:00	11:30	1:30	Unit 13: PV system commissioning, inspection and verification	Mr Nikolas Chatzigeorgiou Dr George E. Georghiou
11:30	12:00	0:30	Coffee break	
12:00	13:00	1:00	Unit 14: Maintenance and fault detection	Mr Nikolas Chatzigeorgiou Dr George E. Georghiou
13:00	14:00	1:00	Lunch break	
14:00	15:30	1:30	Unit 15: PV quality issues	Mr Nikolas Chatzigeorgiou Dr George E. Georghiou
15:30	15:40	0:10	Discussion – Q&A	Mr Nikolas Chatzigeorgiou Dr George E. Georghiou



Day 5 – Theoretical Part
November 16, 2020

Seminar Room: University of Cyprus (New Campus)
Room LRC019, Learning Resource Centre "Stelios Ioannou"
Trainer: Dr Venizelos Efthymiou

Start Time	Stop Time	Duration (hours)	Content	Trainer
09:00	10:00	1:00	Unit 16: MW design and installation <ul style="list-style-type: none">Photovoltaic project developmentSite Selection	Dr Venizelos Efthymiou
10:00	11:30	1:30	Unit 16: MW design and installation <ul style="list-style-type: none">Plant designPermits, licensing and environmental considerationsEngineering procurement and construction contracts	Dr Venizelos Efthymiou
11:30	12:00	0:30	Coffee break	
12:00	13:00	1:00	Unit 16: MW design and installation <ul style="list-style-type: none">ConstructionOperation and maintenance	Dr Venizelos Efthymiou
13:00	14:00	1:00	Lunch break	
14:00	15:30	1:30	Unit 16: MW design and installation <ul style="list-style-type: none">Policies and grid rules requirementsFinancial analysis – Project costs and revenueCase study	Dr Venizelos Efthymiou
15:30	15:40	0:10	Discussion – Q&A	Dr Venizelos Efthymiou



Day 6 – Practical Part
November 17, 2020

Seminar Room: University of Cyprus (New Campus)
PV Technology Laboratory & LRC 005, Learning Resource Centre "Stelios Ioannou"
Trainer: Mr Nikolas Chatzigeorgiou / Mr Giorgos Panayi

Start Time	Stop Time	Duration (hours)	Content	Trainer
09:00	10:30	1:30	PV Park visit (operated by the University of Cyprus) Location: PV Technology Laboratory	Mr Nikolas Chatzigeorgiou Mr Giorgos Panayi
10:30	11:30	1:00	Laboratory 1: PV standardized performance tests Location: PV Technology Laboratory	Mr Nikolas Chatzigeorgiou Mr Giorgos Panayi
11:30	12:00	0:30	Coffee break	
12:00	13:00	1:00	Laboratory 2: Site survey and shade analysis Location: PV Technology Laboratory	Mr Nikolas Chatzigeorgiou Mr Giorgos Panayi
13:00	14:00	1:00	Lunch break	
14:00	15:30	1:30	Laboratory 3: Photovoltaic system design (Small scale PV system 3 & 5 kWp, grid connected) Location: LRC 005	Mr Nikolas Chatzigeorgiou Mr Giorgos Panayi
15:30	15:40	0:10	Discussion – Q&A	Mr Nikolas Chatzigeorgiou Mr Giorgos Panayi



Day 7 – Practical Part
November 23, 2020

Seminar Room: University of Cyprus, Old Campus
Location: Room B001 (Kallipoleos)
Trainer: Mr Nikolas Chatzigeorgiou / Mr Giorgos Panayi

Start Time	Stop Time	Duration (hours)	Content	Trainer
09:00	10:30	1:30	Seminar PV module and inverter datasheets Location: Room B001 Old Campus (Kallipoleos)	Mr Nikolas Chatzigeorgiou Mr Giorgos Panayi
10:30	11:30	1:00	Laboratory 4: PV system electrical connections (Grid-connected PV system electrical connection and inverter grid settings) Location: Room B001 Old Campus (Kallipoleos)	Mr Nikolas Chatzigeorgiou Mr Giorgos Panayi
11:30	12:00	0:30	Coffee break	
12:00	13:00	1:00	Laboratory 5: PV monitoring and performance Location: Room B001 Old Campus (Kallipoleos)	Mr Nikolas Chatzigeorgiou Mr Giorgos Panayi
13:00	14:00	1:00	Lunch break	
14:00	15:30	1:30	Laboratory 6: Tracking system components Location: Room B001 Old Campus (Kallipoleos)	Mr Nikolas Chatzigeorgiou Mr Giorgos Panayi
15:30	15:40	0:10	Discussion – Q&A	Mr Nikolas Chatzigeorgiou Mr Giorgos Panayi



Day 8 – Practical Part
November 26, 2020

Seminar Room: University of Cyprus (New Campus)
PV Technology Laboratory

Trainer: Mr Nikolas Chatzigeorgiou / Mr Giorgos Panayi

Start Time	Stop Time	Duration (hours)	Content	Trainer
09:00	10:30	1:30	Laboratory 7: Photovoltaic system installation Location: PV Technology Laboratory	Mr Nikolas Chatzigeorgiou Mr Giorgos Panayi
10:30	11:30	1:00	Laboratory 7: Photovoltaic system installation Location: PV Technology Laboratory	Mr Nikolas Chatzigeorgiou Mr Giorgos Panayi
11:30	12:00	0:30	Coffee break	
12:00	13:00	1:00	Laboratory 7: Photovoltaic system installation Location: PV Technology Laboratory	Mr Nikolas Chatzigeorgiou Mr Giorgos Panayi
13:00	14:00	1:00	Lunch break	
14:00	15:30	1:30	Laboratory 8: Photovoltaic system maintenance and fault detection Location: PV Technology Laboratory	Mr Nikolas Chatzigeorgiou Mr Giorgos Panayi
15:30	15:40	0:10	Discussion – Q&A	Mr Nikolas Chatzigeorgiou Mr Giorgos Panayi



Day 9 – Final Exam
December 21, 2020

Practical Exam

Laboratory: University of Cyprus (New Campus)
PV Technology Laboratory
Time: 10:00 am – 13:00 pm

Theoretical Exam

Seminar Room: University of Cyprus (New Campus)
LRC012, Learning Resource Centre "Stelios Ioannou"
Time 14:00 pm – 16:00 pm