



MAPÚA
INSTITUTE OF TECHNOLOGY

Mapúa Institute of Technology, through its International Summer School in partnership with PetroEnergy Resources Corporation, is inviting interested students around the world to its Crash Course on Renewable Energy in July 2017. The medium of instruction is English.



MAPÚA INTERNATIONAL SUMMER SCHOOL 2017

Education for the
DIGITAL AND
GLOBAL GENERATION.



2017 MAPÚA INTERNATIONAL SUMMER SCHOOL: RENEWABLE ENERGY COURSE

PROGRAM DETAILS

- Program Fee: USD 1000
- Classes are from Monday to Friday
- 49 hours of classroom contact
- Plant visits
- Short historical trips within the Metro scheduled during weekdays
- Culminating cultural trip in Boracay

Note: There will be a 50% discount on tuition for students coming from partner universities



Maibarara Geothermal Power Project



Tarlac Solar Power Project



Nabas Wind Farm

SUMMER SCHOOL SCHOLARSHIP

COVERAGE

1. Three-week, three-unit course on Renewable Energy
2. Cultural trips
3. Certificate of Completion
4. Airport pickup and drop off
5. Health insurance

Note: For limited slots only

EXCLUDED COST

1. Accommodation (estimated cost USD 300)
2. Personal expenses
3. Any other non-specified costs

REQUIREMENTS

1. Essay: "How is participating in Mapúa International Summer School significant in your study plan?"
2. Transcript of Records
3. IELTS/ TOEFL Score Report
4. Letter of Recommendation issued by the home university



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MAPÚA INTERNATIONAL SUMMER SCHOOL

PROGRAM SCHEDULE

JULY 10 TO 29, 2017

WEEK 1: GEOTHERMAL

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9:00	Orientation: Meet and Greet				PERC Lecture to discuss an overview of the Maibarara Geothermal power plant on the following:	Visit to Maibarara Geothermal Power Plant, Batangas
10:30	Campus Tour	Lecture: The Philippine Energy Sector and Renewable Energy Development (DOE)	Lecture: Geothermal Resources: Nature, Characteristics and Development	Lecture: Basics of Geothermal Drilling	a. Development and Features of the Maibarara Geothermal power plant b. Reservoir Engineering c. Financing and economic aspect of geothermal, wind and solar RE.	
12:00	Lunch	Lunch	Lunch	Lunch	Lunch	
1:30	Class: Phil. History and Culture	Lecture: Electrical Power Transmission and Distribution in the Philippines (NGCP)	Film Showing: Geothermal Resources	Film Showing: Geothermal Drilling	Free time	
3:00	Intramuros Tour	Tour of the NGCP monitoring facilities in Quezon City				
4:30						
6:00	Welcome Dinner (Barbara's)					

WEEK 2: SOLAR

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9:00		Measurement and Characteristics of Solar PV Modules (Part 2)	Power Conditioning and Controllers (Part 1)		PERC Lecture to discuss an overview of the 50 MW (dc) Tarlac -1 Solar Power Projects on the following:	Visit to Tarlac Solar Power Plant
10:30	Photovoltaic Principles 1	Cultural trip	Org. activity	Visit to 54MW Pililla, Rizal	a. Development and Features of the Tarlac-1 Solar Plants b. Operations and Maintenance of the Tarlac -1 Facility c. Solar Project Cost and Economics d. Environmental and Community Relations Program of PetroSolar Corp	
12:00	Lunch	Lunch	Lunch	Lunch	Lunch	
1:30	Student org immersion	Battery Energy Storage	Power Conditioning and Controllers (Part 2)	Visit to Philippine Electricity Market Corporation on "Wholesale Electricity Spot Market" in Ortigas	Free time	
3:00	Measurement and Characteristics of Solar PV Modules (Part 1)		Pre-visit orientation (by PERC team) re itinerary for Thursday			

WEEK 3: WIND

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9:00		Wind Resource Assessment (Part 2)			Visit to Nabas Wind Farm, Aklan PERC to lecture on the following: 1. Development of Nabas Wind Farm 2. Operations and maintenance 3. Environmental and Community relations *includes Control building and Turbine Tour	Cultural activity and closing program in Boracay
10:30	Introduction to Wind Energy Conversion System	Org. immersion	Wind Turbine Technologies (Part 1)	Wind Turbine Applications (Part 2)		
12:00	Lunch	Lunch	Lunch	Lunch		
1:30	Activity	Wind Turbine Technologies (Part 1)	Activity	Pre-visit orientation (provided by PERC team)	Departure to Hotel	
3:00	Wind Resource Assessment (Part 1)		Wind Turbine Applications (Part 1)			

Note: Subject to change without prior notice.

FEES BREAKDOWN (USD1,000):

Tuition	- USD250
Accommodation	- USD300
Cultural Trips	- USD350
Other Expenses	- USD100

FOR MORE INFORMATION, PLEASE CONTACT

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POSSIBLE ACTIVITIES IN BORACAY

