MAPÚA UNIVERSITY

RENEWABLE ENERGY INNOVATION AND LEADERSHIP EXPERIENCE

Mapúa University, through its Renewable Energy Innovation and Leadership Experience in partnership with PetroEnergy Resources Corporation (PERC), is inviting interested students around the world to its Short Course on Renewable Energy in July 2019.
The medium of instruction is English.

PetroEnergy
PETROENERGY RESOURCES CORPORATION

PROGRAM DETAILS

- Program Fee: USD 1000
- Classes are from Monday to Friday
- 49 hours of classroom contact
- Plant visits
- Culminating cultural trip in Boracay


32MW Maibarara Geothermal Power Project


50MWDC Tarlac-1 Solar Power Project


36MW Nabas-1 Wind Power Project

PROGRAM FEE INCLUSIONS

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
6. Plant visits
7. Special Study Permit (SSP)

EXCLUDED COST

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

To register and know more about the program, scan the QR code or visit www.mapua.edu.ph/Academics/InternationalPrograms

RENEWABLE ENERGY INNOVATION AND LEADERSHIP EXPERIENCE

July 8 to 26, 2019 | July 6 – 7, 2019 *Arrival to Manila (airport pick-up)* **JULY 27, 2019** *Departure from Manila (airport drop-off)*

WEEK 1: GEOTHERMAL JULY 8 - JULY 12

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

WEEK 2: SOLAR AND WIND JULY 15 - JULY 19

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9:00	Photovoltaic Principles	Microgrid Development Challenges in the Philippines	Tidal Turbine Technologies	Pre-visit orientation (by PERC team) re itinerary for Tarlac and Nabas at PERC office	PERC Lecture to discuss an overview of the 50 MW (dc) Tarlac -1 Solar Power Projects on the following: 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	Visit to Pililia Wind Farm
10:30	Measurement and Character-istics of Solar PV Modules	PV Battery Energy Storage and PV Applications	Tidal Energy Resource Assessment			
12:00	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch
1:30	Parabolic Trough Solar Collector	Introduction to Wind Energy Conversion System	Student Activity	Visit to Independent Electricity Market Operator of the Philippines (IEMOP) on "Wholesale Electricity Spot Market" in Ortigas	Visit to Tarlac Solar Power Plant	
3:00	PV Integration into the Grid as it meets the Demand	Wind Turbine Applications and Integration to the Grid				

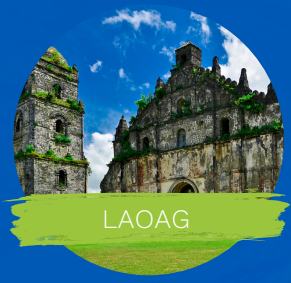
WEEK 3: TOUR TO PLANTS JULY 22 - JULY 26

	Monday	Tuesday	Wednesday	Thursday	Friday
9:00	Travel to Bangui wind Farm	travel to Laoag (includes tour in Laoag) - return to Manila for Boracay flight	Flight to Boracay from Laoag	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	Free time in Boracay
10:30					
12:00			Lunch	Lunch	Lunch
1:30			Hotel check-in (Boracay)	Cultural and culminating Activity at hotel *-presentation of reports and awarding of certificate*	Flight to Manila
3:00					

Note: The final course coverage and schedule will be provided during the orientation
Participants can opt to extend their stay in Boracay at their own expense.

DESTINATIONS


VIGAN


LAOAG


BORACAY

ABOUT PERC AND MAPÚA


PERC

PERC is a publicly-listed Philippine company involved in oil production in Gabon, Africa and renewable energy (RE) development in the Philippines. Its RE assets include operating geothermal, wind, and solar power facilities, under its RE subsidiary, PetroGreen Energy Corporation (PGEC). For more information on PERC, please contact PERC's Corporate Communications Manager Vanessa G. Peralta at vgperalta@ petroenergy.com.ph or visit PERC's website at www.petroenergy.com.ph.

MAPÚA UNIVERSITY

Established in 1925, Mapúa University is the Philippines' premier engineering and technological university. It is among the best universities in Asia, entering the Quacquarelli Symonds (QS) Asia Top 500 University Rankings for 2019. With a three-star overall rating for excellence from QS, 14 ABET accredited (www.abet.org) engineering and computing programs, and various programs for international academic exposure, Mapúa molds students into successful professionals for the global and digital age.

FOR MORE INFORMATION, PLEASE CONTACT

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