



**Workshop name:**

## **Wind Energy and Wind Turbine Technology**

**Workshop code:**

Isme2016-31

**Lecturer:**

**Dr. Ahmad Hemami**

### **Workshop Overview:**

Wind Energy and Wind Turbine Technology workshop is a comprehensive workshop on the theory and operations of wind turbines that generate electricity for power companies. This workshop is an introductory course in wind energy technology. It helps participants as wind energy technicians who are responsible for maintaining, servicing and troubleshooting turbines on wind farms. Dr. Hemami uses a practical, step-by-step manner with some examples and applications to help participants to have a better understanding of the material. This workshop covers the main subjects associated with wind turbines including following detailed material:

- 1- State of wind energy in the world
- 2- Propeller wind turbine components
- 3- Energy in the wind & wind characteristics
- 4- Fundamentals and turbine types
- 5- Propeller turbine
- 6- Electricity and electric generators
- 7- Wind turbine characteristics
- 8- Induction generator for wind turbines
- 9- Wind turbine control & power curve
- 10- Wind farm cost issues and assessment
- 11- Environmental effects and concerns

**Training Duration:** 8 hours

**Workshop Cost:**

**Normal:** 1,000,000 Rials

**Students:** 500,000 Rials

**Register On:** [www.ysme.ir](http://www.ysme.ir)

