



## Training module on Wind Energy Systems

Programme Title		Wind Energy Systems
Duration		5 days
Venue		NTPC School of Business, Noida, India
Day	Time	Topic
Day 1	Forenoon (FN) 3 hours	Introduction to wind energy development, its potential, and status. Overview of Wind turbine types and its components.
	Afternoon (AN) 3 hours	Wind Resource Assessment & Techniques. Meteorological data and measurements.
Day 2	Forenoon (FN) 3 hours	Wind farm layout and optimization. Wind Turbine site assessment.
	Afternoon (AN) 3 hours	Basic aerodynamics of wind turbines. Turbine design principles and optimization. Installation, Commissioning and O&M aspects of Wind Turbine.
Day 3	Forenoon (FN) 3 hours	Wind Turbine Testing & Measurement Techniques Power generation and capacity factors. Control systems and grid integration.
	Afternoon (AN) 3 hours	Offshore wind energy Economics & financing of wind projects.
Day 4	Full Day	Site Visit to a Wind Turbine based Power Station outside NCR
Day 5	Forenoon (FN) 3 hours	Enabling policies, Design of schemes and programs, their monitoring and evaluation. Health and safety considerations.
	Afternoon (AN) 3 hours	Valedictory Session