MIE 1240H – WIND POWER
Fall 2015

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Course Outline

1. Introduction to Wind Power
2. Wind resource assessment
3. Introduction to aerodynamics of wind turbines
4. Wind turbine performance
5. Structural design and loads on Wind Turbines
6. Mechanical and civil engineering aspects of wind turbines
7. Energy production estimation for wind farms
8. Wind farm design and constructability
9. Introduction to offshore wind power
10. Economics of wind power, environmental impact and regulations

Tentative Mark Composition

Assignments 40%
Midterm Exam 40%
In-Class Assignment 20%

Recommended Bibliography


