COURSE SYLLABUS AND CLASS SCHEDULE

Instructor: TBA
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DESCRIPTION:

ESET 0256A Renewable Electrical Energy and Grid Integration: 2 semester hours.
Assesses existing renewable resources such as wind, solar, geothermal, hydro, tidal, wave power,
and biomass and their integration into the electric power grid and various energy storage methods
to accommodate the intermittent nature of these resources. Economic constraints, environmental
benefits, and institutional regulations are considered. F

Learning Outcomes
Upon course completion the student will be able to:
  1. Evaluate various renewable resources and assess the impact of their integration on grid
     operation Scenario
  2. Identify the expected capacity and availability factors of various renewable resource
     scenarios
  3. Identify the economic and environmental benefits and impacts of renewable energy

Assessment Method
  1. Classroom examination

GRADING & Attendance: A = 96-100; A- = 91-95;  B+ = 87-90; B = 83-86; B- = 79-82;
    C+ = 75-78; C = 71-74; C- = 67-70; D = 66 and F=60 and below.

You can’t learn if you are not in class. Class means both the classroom and laboratory component of this course. Five
class absences could reduce your grade. If you must miss class, make prior arrangements with me to makeup missed
class work.

The course is graded on a total points basis.

REASONABLE ACCOMMODATION FOR STUDENTS WITH DISABILITIES:
The Americans with Disabilities Act of 1990 specifies that if you have a diagnosed disability, or believe that you have
a disability that might require “reasonable accommodation” on the part of the instructor in this course, you can receive
help by contacting the Director, ISU Center of Services for Students with Disabilities; 208-282-3912. It is your
responsibility to let the instructor know if you are seeking accommodation for a learning disability (such as extra time
to complete exams, note taking help, large print for exams, and so on).