
Please select your course and name from the drop-down menu. If your course or name are incorrect or missing, contact the Curriculum and Assessment Administrative Assistant, 541-506-6037 or swade@cgcc.edu.

RET 223-Power Generation- Jim Pytel- Part A- Fall 2024

*** Part A: Your Plan DIRECTIONS 1. Choose three of your course outcomes to assess and report on this term (these will also be used in your Student Course Evaluation survey): Outcome #1**

Apply intermediate electronics principles to analyze the behavior of motors, generators, power electronics, and transmission circuits.

*** Outcome #2**

Perform a solar site analysis using publicly available resources, instrumentation, and software simulation.

*** Outcome #3**

Write technical reports using collected experiment data.

Have you completed an assessment for this course prior to this term?

Yes

If yes, are you assessing different outcomes?

No

Comments:

(No response)

2. To which degree(s) or certificate(s) does your course map? Degree, Certificate, & Program Outcomes

Associate of Applied Science: Electro-Mechanical Technology

*** Method of Assessment 3. What methods will be used to assess individual student understanding of each of these outcomes? (Please be specific.) Outcome #1: Method to assess student understanding**

Students will conduct labs on induction and synchronous motors and generators and collect data.

*** Outcome #2: Method to assess student understanding**

Students will conduct a solar site analysis of an area and predict the performance of a system.

*** Outcome #3: Method to assess student understanding**

Students will collect and interpret experimental data.

*** 4. How will you know if you were successful in your efforts to teach this outcome? Outcome #1:**

Students can properly identify speed, torque, mechanical power, current, real and reactive power, PF, and efficiency characteristics of induction and synchronous motors and generators.

*** Outcome #2: How will you know if you were successful in your efforts to teach this outcome?**

Students can properly predict the performance of a PV system after conducting a solar site survey.

*** Outcome #3: How will you know if you were successful in your efforts to teach this outcome?**

Students can properly identify operational characteristics of induction and synchronous machines.

5. Instructor Questions: Create two course specific questions to be included on the Student Course Evaluation. Question #1

(No response)

Question #2

(No response)

Do you require the names of students who complete the course evaluation survey? (Please note: names will be sent to instructors the Thursday before term ends)

NO

Reminder, when completing Part B, instructors will be asked the following questions: Describe anything you did to assist the institutional effort to support students in improving achievement of the specified criteria for the following Institutional Learning Outcomes (ILO): 1. ILO#1 - Communication - "Content Development" and/or "Control of Syntax and Mechanics" 2. ILO#2 - Critical Thinking/Problem Solving - "Evidence" and/or "identify strategies" 3. ILO#4 - Cultural Awareness - "Openness" (Encouraging our students to "Initiate and develop interactions with culturally different others") 4. ILO#5 - Community and Environmental Responsibility 5. ILO#3 - Quantitative Literacy - "Application/Analysis" and/or "Assumptions"

(No response)