

Student Outcomes and Performance Indicators – **Faculty Assessment**
Department of Engineering & Engineering Technology
College of Professional Studies
Metropolitan State University of Denver

EET 2000 (3)

ELECTRIC CIRCUITS AND MACHINES

Semester/year

Specific, Measurable Student Behavioral Learning Objectives:

Upon completion of this course the student should be able to:

1. Utilize Ohm's law, Kirchoff's Voltage and Current Laws, Thevenin and Norton conversions to analyze AC and DC circuits and determine the theoretical value for current, voltage, power and resistance in AC and DC series.
2. Understand basic AC and DC motor design.
3. Write laboratory finding in a concise document comparing theoretical and actual data with computer generated models.

| ABET | Competency Area | Data Collection |
|------|---|-----------------|
| b | an ability to select and apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require the application of principles and applied procedures or methodologies | |
| g | an ability to apply written, oral, and graphical communication in both technical and non-technical environments; and an ability to identify and use appropriate technical literature | |

ADDITIONAL COMMENTS:

PLEASE:

1. MAKE SURE ALL REFERENCES ARE IN Y DRIVE;
2. SAVE THIS FILE UNDER THE COURSE NUMBER, FOR EXAMPLE: CET1000 SPRING 2018.DOC;
3. SEND YOUR REPORT TO LINDA;

<Name>

<Date>

Following tables define the Performance Indicators for each of the Student Outcomes a through k

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| ABET b: an ability to select and apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require the application of principles and applied procedures or methodologies | | | | |
|---|--|--|---|--|
| | Unsatisfactory | Developing | Satisfactory | Exemplary |
| Use science, math, and engineering concepts to conduct qualitative analysis | Unaware of needs for qualitative analysis | Working on the knowledge and skills for qualitative analysis | Proper analysis with 70% partial solution or better | Proficient in using selected tools for qualitative analysis |
| Use science, math, and engineering concepts to conduct quantitative analysis | Unable to identify tool for the needed quantitative analysis | Working on the knowledge and skills for quantitative analysis | Proper analysis with 70% partial solution or better | Proficient in using selected tools for quantitative analysis |
| Develop designs of products, systems, or processes that respond to authentic needs | Unaware of or not understanding the needs | Knowledge or skill set not enough for solving the engineering technology problem | 70% partial solution or better | Proper solutions obtained |
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| ABET g: an ability to apply written, oral, and graphical communication in both technical and non-technical environments; and an ability to identify and use appropriate technical literature | | | | |
|--|--|--|---|---|
| | Unsatisfactory | Developing | Satisfactory | Exemplary |
| Use proper format and grammar in written and oral communications | Unaware of the need of communications in engineering technology practice | Unable to use format and grammar for effective communication | Able to communicate in technical environment | Present properly to both non-technical and technical audience |
| Use appropriate graphics in oral and written presentations | No understanding of importance of graphics | Unable to produce all graphics needed | Some applications of graphics in presentation | Presentation with proper graphical aids |
| Paraphrase technical and non-technical literature satisfactorily | Unaware of the need in technical literature | Unable to identify and research for proper literature | Some literature research | Present properly to both non-technical and technical audience |
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