EET 3086C - ABET Course Evaluation Survey Spring 2021

Please take time and thoroughly fill out this questionnaire. The comments you make are very important, and will be valuable in helping to improve the course. They will also be used by the department for ABET Accreditation and to improve curriculum and the program. Remember, tell us about what went well, and what you did not like. Be honest, and constructive. This will really help guide us in revising the course in the future. The more honest and thoughtful you are, the more it helps. Be positive or negative, objective or subjective, cosmic or picayune. We will benefit most from detailed and written comments.

Part I – Course Background Questions About You

| What Associate degree did you earn? | AA – General | AS – EET at Valencia | AS – Other Majors |
|---|----------------------------------|--|--------------------------|
| What year did you complete your Associate Degree? | | | |
| Which of this course's prerequisites did you take? | EET 1025C (AC) at Valencia | EET 1025C at another institution | EET 3081C at Valencia |
| What <u>year</u> and <u>semester</u> did you complete the prerequisite? | Year | Semester | |
| Did the prerequisite(s) (EET 1025C or EET 3081C) prepare you adequately for this course? Should they be expanded? Reduced? <i>Explain</i> . | | | |
| How much time per week outside of class did you spend on this course? <i>Explain</i> . | | | |
| How much of the assigned reading did you read? (in percent) | | | |
| How often were you fully up to date in the reading and prepared for class assignments? (give approximate percent) | | | |
| What percent of the assignments did you complete? | | | |
| How much of your full effort did you give to learning what could be learned from this course? (give approximate percent) | | | |

Part II – Course Learning Outcomes

| Со | urse Learning Outcomes | Performance Indicators – Students Will |
|---|--|--|
| A | Demonstrate an in-depth understanding of basic circuit laws and circuit analysis methods | Demonstrate an in-depth understanding of Ohm's Law, Kirchhoff Voltage Law and Kirchhoff Current Law Employ basic laws to analyze electrical circuits by mesh analysis, node analysis, voltage divider, current divider, Thevenin, and Norton analysis methods |
| | | e Learning Outcome A rerequisite course) – Remarks & Observations |
| had take prepared outcome <i>Explain</i> . | feel the prerequisite courses you n before this course adequately d you under this course learning and its performance indicators? | Remarks & Observations |
| and vide better er understa How wel performa review? | e provided review lecture notes os for this outcome helpful and nhance your knowledge and anding? I were this outcome and its ance indicators covered as Explain. Please be as detailed as your response. | |
| and Lab) | e assignments (quizzes, exams, effectively assessed the material ed under this outcome? <i>Explain</i> . | |
| and defi | ere your major concerns, issues, ciencies? Explain . Please be as s possible in your response. | |
| What we What wo future st | ere the successes? Sould you propose to improvement udent learning under this learning and performance indicators? | |

Part II – Course Learning Outcomes

| Col | urse Learning Outcomes | Performance Indicators – Students Will |
|---|--|---|
| В | Demonstrate an understanding of transient behavior of electrical circuits | Analyze source-free RL, RC, and series and parallel RLC circuits Categorize transient circuits according to their damping characteristics. Assess complete response of RLC circuits |
| | Course Learning Ou | tcome B – Remarks & Observations |
| videos for enhance understa How wel performa review? | e provided lecture notes and or this outcome helpful and better your knowledge and inding? I was this outcome and its ance indicators covered as Explain. Please be as detailed as your response. | |
| and Lab) | e assignments (quizzes, exams, effectively assessed the material d under this outcome? <i>Explain</i> . | |
| and defic | ere your major concerns, issues, ciencies? Explain . Please be as s possible in your response. | |
| What les | sons did you learn? | |
| What we | re the successes? | |
| future st | ould you propose to improvement udent learning under this learning and performance indicators? | |
| Col | urse Learning Outcomes | Performance Indicators – Students Will |
| С | Demonstrate an in-depth understanding of AC sinusoidal circuit analysis | Demonstrate an in-depth understanding of Phasor concepts Analyze steady-state response and different power considerations of sinusoidal circuits |
| | Course Learning Ou | tcome C – Remarks & Observations |
| videos for enhance understa How wel performa review? | e provided lecture notes and or this outcome helpful and better your knowledge and inding? I was this outcome and its ance indicators covered as Explain. Please be as detailed as your response. | |

| and Lab) | e assignments (quizzes, exams, effectively assessed the material ed under this outcome? <i>Explain</i> . | |
|---|--|--|
| and defic | ere your major concerns, issues, ciencies? Explain . Please be as s possible in your response. | |
| What we What wo future st | esons did you learn? Ere the successes? Evold you propose to improvement Evolution under this learning Evolution and performance indicators? | |
| Co | urse Learning Outcomes | Performance Indicators – Students Will |
| D | Demonstrate an understanding of response of electrical networks in complex frequency plane. | Analyze circuits through Laplace Transform Techniques Calculate resonant responses for parallel and series RLC circuits in frequency domain |
| | Course Learning Ou | tcome D – Remarks & Observations |
| videos for enhance understa How wel performa review? | e provided lecture notes and or this outcome helpful and better your knowledge and anding? I was this outcome and its ance indicators covered as Explain. Please be as detailed as a your response. | |
| and Lab) | e assignments (quizzes, exams, effectively assessed the material ed under this outcome? <i>Explain</i> . | |
| and defic | ere your major concerns, issues, ciencies? Explain . Please be as s possible in your response. | |
| What we What wo future st | ere the successes? Sould you propose to improvement udent learning | |
| outcome | and performance indicators? | |

Part III - Course Lecture Notes, Videos, Textbook, etc...

| | Strongly Agree | Agree | Disagree | Strongly Disagree |
|---|-------------------|----------|----------|----------------------|
| I am a better engineering problem solver as a result of what I have learned in this course. | | | | |
| This course exposed me to new ideas. | | | | |
| Video lectures encouraged me to challenge my ideas, beliefs, and assumptions. | | | | |
| The lectures notes and videos made me think critically and understand the course topics. | | | | |
| The recommended homework assignments were a great help to me in preparing for tests. | | | | |
| Comments on quizzes, exams, lab reports and other assignments were helpful. | | | | |
| The tests effectively assessed the material presented in class. | | | | |
| Feedback on graded work helped me to improve future assignments. | | | | |
| This course encouraged me to examine and/or clarify my values. | | | | |
| This course integrated real world knowledge. | | | | |
| This course is made career opportunities clear to me. | | | | |
| The textbook helped me understand the course topics. | | | | |
| How much could you understand at the beginning of the semester? | 10 – 25 % | 25 – 50% | 50 – 75% | 75 – 100% |
| How much can you understand now? | 10 – 25 % | 25 – 50% | 50 – 75% | 75 – 100% |

| | Too Easy | Somewh Easy | at | About Right | Somewhat Difficult | | Too Difficult | | | | | | | | |
|---|-------------|----------------|----|----------------|-----------------------|----------|------------------|--|--|--|--|--|--|--|----------|
| This class was: | | | | | | | | | | | | | | | |
| Textbook was: | | | | | | | | | | | | | | | |
| The course was taught: | Too Slow | Somew Slov | | About Right | Somewhat Fast | | | | | | | | | | Too Fast |
| The amount of material presented was: | Too | Little | | About Righ | nt | Too Much | | | | | | | | | |
| | Ag | ree | | Neutral D | | Di | sagree | | | | | | | | |
| Class materials were clear and easy to use. | | | | | | | | | | | | | | | |
| Class content was logically organized. | | | | | | | | | | | | | | | |
| Class length was: | Too | Short | | About Righ | nt | То | o Long | | | | | | | | |

Part IV - Laboratory Experiment Assessment Survey

As part of our efforts to make your educational experience a valuable one, we are conducting this survey to find out how the lab courses are proceeding and to identify areas that need improvement. Your feedback is very important to us, and we appreciate if you could take few minutes to complete the survey.

Please rate the following areas based on your laboratory experience and use the space provided to illustrate the problems and help us identify them:

| Laboratory Assessment | 5 | 4 | 3 | 2 | 1 |
|--|---|---|---|---|---|
| (5: Always, 4: Almost always, 3: Most of the time, 2: Sometimes, 1: Rarely) | | - | 3 | _ | • |
| Lab manual/notes adequately described equipment and experiments | _ | | | | |
| | | | | | |
| Lab experiments were reasonable in length and content | | | | | |
| Lab experiments followed the lecture material | _ | | | | |
| The labs were well equipped and all equipment were in good condition | | | | | |
| I was allowed to work independently with minimal guidance from lab assistants/technicians | - | | | | |
| Safety measures were explained at the beginning of the labs | | | | | |
| Self-Evaluation (5: Very Well Prepared, 4: Well Prepared, 3: Prepared, 2: Somewhat Prepared, 1: Not Prepared) | 5 | 4 | 3 | 2 | 1 |
| Conducting Experiments – ability to operate lab equipment properly to collect data | | | | | |
| Analysis of Data – ability to organize data, perform appropriate data manipulations and calculations, and present final data in an appropriate format | | | | | |
| Interpretation of Data – ability to draw appropriate conclusions from data, and use good engineering judgment to determine if conclusions are reasonable | | | | | |
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| Designing Experiments – ability to develop a methodology which will produce high quality data to evaluate a specific theory or hypothesis | - | | | | |
|--|---|---|---|---|---|
| Ethics in the Lab – behaving with highest ethical standards, reporting information objectively, and interacting with integrity | - | | | | |
| Teamwork – ability to work effectively in teams, assign roles, responsibilities and tasks, monitor progress, and meet deadlines | - | | | | |
| Evaluation of Overall Lab Experience (5: Significant effect, 4: Definite effect, 3: Some positive effect, 2: Very little effect, 1: No effect) This course labs have helped me improve in: | 5 | 4 | 3 | 2 | 1 |
| | + | | | | |
| Better understanding of theoretical concepts | | | | | |
| Better understanding of theoretical concepts Making connections between materials of several courses | | | | | |
| | | | | | |
| Making connections between materials of several courses | | | | | |
| Making connections between materials of several courses Technical report writing | | | | | |
| Making connections between materials of several courses Technical report writing Using computer programs in data analysis | | | | | |

Part V – More Course Related Miscellaneous Questions

Please rank order the following activities according to how beneficial each is in helping you master the content of this course. For example, place a **1** in front of the activity that is **most beneficial**, a **2** in front of the **next**, etc. Place a zero (0) in front of activities that do not apply.

| _ (please specify) _ (please specify) |
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| s were: |
| a lot) |
| sometimes) |
| re are talking about and feel that I am learning from lectures) |
| rious to me) |
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| when fundamentals were covered. Did you understand at the time u see how they are relevant now? |
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| uld be both fun and meaningful? (Something you liked from another |
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| 14. | What solutions or changes would you like to see that would alleviate these frustrations? |
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| 15. | What topics/concepts/skills presented in this course are still unclear to you? |
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| 16. | The topics/concepts/skills presented in this course I understand best are: |
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| 17. | The topics/concepts/skills presented in this course I understand least are: |
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| 18. | What classroom strategies/activities are the most effective for your learning style? |
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| 19. | Were the text and other readings useful? What were their strengths and weaknesses? (If there were |
| | handouts, web pages, reserve readings, etc., comment on those, too.) |
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| 20 | What other questions should have been asked? List them here. |
| 20. | what other questions should have been asked: List them here. |
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| Organization – Did the most important topics stand out clearly? Could you see how the topics fit togethe | | | | | | |
|--|---|--|--|--|--|--|
| | Were there topics that went too quickly? Topics that went too slowly? | | | | | |
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