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?	2019		
Which of this course's prerequisites did you take?	**EET 1025C** (AC) at Valencia ☐	**EET 1025C** at another institution ☐	**EET 3081C** at Valencia ☒
What **year** and **semester** did you complete the prerequisite?	**Year** 2019	**Semester** Summer	
Did the prerequisite(s) (**EET 1025C** or **EET 3081C**) prepare you adequately for this course? Should they be expanded? Reduced? ***Explain***.	It did prepare me for this course. However it needs to be immediately follow by EET3081.		
How much time per week outside of class did you spend on this course? ***Explain***.	atleast 5-6 hours per day.		
How much of the assigned reading did you read? (*in percent*)	100%		
How often were you fully up to date in the reading and prepared for class assignments? (*give approximate percent*)	100%		
What percent of the assignments did you complete?	1000%		
How much of your full effort did you give to learning what could be learned from this course? (*give approximate percent*)	100%		

Part II – Course Learning Outcomes

Course Learning Outcomes		*Performance Indicators – Students Will*
A	Demonstrate an in-depth understanding of basic circuit laws and circuit analysis methods	**1.** Demonstrate an in-depth understanding of Ohm's Law, Kirchhoff Voltage Law and Kirchhoff Current Law **2.** Employ basic laws to analyze electrical circuits by mesh analysis, node analysis, voltage divider, current divider, Thevenin, and Norton analysis methods

Course Learning Outcome A **(*Required Fundamentals from Prerequisite course*) – Remarks & Observations**	
Did you feel the prerequisite courses you had taken before this course adequately prepared you under this course learning outcome and its performance indicators? ***Explain***. ***Please be as detailed as possible in your response.***	1. It preprare me for this course, but needed to obtain notes from previous course to understand material. 2. It demostrate in-depth advance circuit in which prerequisite does not have advance circuit just basic analysis. 3. Trigonometry and Calculus me be practice as well as attending this course.
Were the provided review lecture notes and videos for this outcome helpful and better enhance your knowledge and understanding? How well were this outcome and its performance indicators covered as review? ***Explain***. ***Please be as detailed as possible in your response.***	1. Lectures notes and videos were very helpful to understand course. 2. The resource available such as notes and video demostrated formula that needed to be adapted to the electrical circuit. 3. The more notes and videos the more understandable the circuit becomes.
Were the assignments (quizzes, exams, and Lab) effectively assessed the material presented under this outcome? ***Explain***.	All quizzes, exams, and lab were base from the book in which helped go over multiple problems and have a diffrent way to view the circuit.
What were your major concerns, issues, and deficiencies? ***Explain***. ***Please be as detailed as possible in your response.***	Each circuit problems take an amount of time to solve, and there is formula to be adapted. My major concern was which formula to use in a given problem and keeping track while solving the circuit problems.
What lessons did you learn? What were the successes? What would you propose to improvement future student learning under this learning outcome and performance indicators?	The lesson learned is that trigonmetric and calculus plays a big role. It needs to be practice in a daily basic while attending this course. The success were learing different type of electrical circuit. I propose for future student to learn there trigonometry and calculus.

Part II – Course Learning Outcomes

Course Learning Outcomes		Performance Indicators – Students Will
B	Demonstrate an understanding of transient behavior of electrical circuits	1. Analyze source-free RL, RC, and series and parallel RLC circuits 2. Categorize transient circuits according to their damping characteristics. 3. Assess complete response of RLC circuits

Course Learning Outcome B – Remarks & Observations	
Were the provided lecture notes and videos for this outcome helpful and better enhance your knowledge and understanding? How well was this outcome and its performance indicators covered as review? ***Explain***. ***Please be as detailed as possible in your response.***	The lecture notes and videos were very helpful, it helped to understand the circuit while studying for assesment or for a given lab experiment. Reviewing notes and playback videos of the resource is a tool that is required for this type of course.
Were the assignments (quizzes, exams, and Lab) effectively assessed the material presented under this outcome? ***Explain***.	There were effectively needed to be review material to better undersatnd the circuit given.
What were your major concerns, issues, and deficiencies? ***Explain***. ***Please be as detailed as possible in your response.***	Major issues is adapting to individual series and parallel circuit and applying specify formula to solve for the damping characteristic and response.
What lessons did you learn? What were the successes? What would you propose to improvement future student learning under this learning outcome and performance indicators?	Learning the behavior of each circuit and the output result. Sucessfully understand of each circuit output as a result of given volatge or current. I propose future student to learn in-depth circuit behavior.

Course Learning Outcomes		Performance Indicators – Students Will
C	Demonstrate an in-depth understanding of AC sinusoidal circuit analysis	1. Demonstrate an in-depth understanding of Phasor concepts 2. Analyze steady-state response and different power considerations of sinusoidal circuits

Course Learning Outcome C – Remarks & Observations	
Were the provided lecture notes and videos for this outcome helpful and better enhance your knowledge and understanding? How well was this outcome and its performance indicators covered as review? ***Explain***. ***Please be as detailed as possible in your response.***	Notes and videos were a handy tool neded to process and understand the AC sinusoidal circuit. It enhance the knowledge of how the circuit analysis output results. Phasor is based on the unit circle in which needs to fully understand the radian and degree for a given circuit.

Were the assignments (quizzes, exams, and Lab) effectively assessed the material presented under this outcome? ***Explain***.	The assignment were effectively based of book material that helped fully understand the circuit degree. The real number and imaginary number is one material that needs lot of attention. The recommended homework were a great help to me in preparing for tests.
What were your major concerns, issues, and deficiencies? ***Explain***. ***Please be as detailed as possible in your response.***	Major concerns and issues is that phasor circuit is complicated and needs lot of problem solving and it take an amount of time to solve a circuit.
What lessons did you learn? What were the successes? What would you propose to improvement future student learning under this learning outcome and performance indicators?	Learn new materail the would help in the near future with other advance courses and better understanding of power of a circuit. Do lots of problems to understand materail.

Course Learning Outcomes		***Performance Indicators – Students Will***
D	Demonstrate an understanding of response of electrical networks in complex frequency plane.	**1.** Analyze circuits through Laplace Transform Techniques **2.** Calculate resonant responses for parallel and series RLC circuits in frequency domain

Course Learning Outcome D – Remarks & Observations	
Were the provided lecture notes and videos for this outcome helpful and better enhance your knowledge and understanding? How well was this outcome and its performance indicators covered as review? ***Explain***. ***Please be as detailed as possible in your response.***	It is a powerful tool to have notes and video to perform Laplace Transform to a given circuit. The techniques could be challenging but a good way to understand given circuit.
Were the assignments (quizzes, exams, and Lab) effectively assessed the material presented under this outcome? ***Explain***.	Material obtained from assignments were effectively that helps analyze the circuit. The recommended assignments were a great help to me in preparing for tests.
What were your major concerns, issues, and deficiencies? ***Explain***. ***Please be as detailed as possible in your response.***	The issues is applying such techniques to a circuit and solving to get an output result that could be very challenging.
What lessons did you learn? What were the successes? What would you propose to improvement future student learning under this learning outcome and performance indicators?	Learning form previous course and adapting formula was very successful using Laplace transform and implementing it to a circuit. Future student needs to do as many problems as possible to understand material.

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	Somewhat Easy	About Right	Somewhat Difficult	Too Difficult
This class was:					-
Textbook was:			-		

The course was taught:	Too Slow ○	Somewhat Slow ○	About Right ◉	Somewhat Fast ○	Too Fast ○
The amount of material presented was:	Too Little ○		About Right ◉		Too Much ○

	Agree	Neutral	Disagree
Class materials were clear and easy to use.	-		
Class content was logically organized.	-		
Class length was:	Too Short ○	About Right ◉	Too 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**: Always, **4**: Almost always, **3**: Most of the time, **2**: Sometimes, **1**: Rarely)	**5**	**4**	**3**	**2**	**1**
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*	-				

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	-				
Making connections between materials of several courses	-				
Technical report writing	-				
Using computer programs in data analysis	-				
Developing an awareness of safety aspects	-				
Using specialized instruments and equipments	-				
Working effectively in teams	-				

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.

1 Lecture with class participation / Lecture Notes/Videos
1 Team/Group Activities
1 Lab work
1 Reading the chapters
1 Presentations/Performances
1 Quizzes/Tests/Exams
1 Study on my own
0 Out of class assignments
_____ _____ (please specify)
_____ _____ (please specify)

1. **The intellectual level of class lectures were:**

   0 **Too high** (I am lost or confused a lot)

   2 **Sometimes too high** (I am lost sometimes)

   1 **Just right** (I understand what we are talking about and feel that I am learning from lectures)

   0 **Too low** (Everything seems obvious to me)

2. **Please describe a particular moment in class where you felt you really learned something (**whether a specific idea you found interesting or a general way to approach problems).

3. **Think back to the beginning of class when fundamentals were covered.** Did you understand at the time why they were being covered? Do you see how they are relevant now?

6. **Any ideas for a class activity that would be both fun and meaningful?** (*Something you liked from another class, for example*).

7. **What works (or does not work) for me about the textbook is:**

8. **What works (or does not work) for me about the course reading materials is:**

9. **What do you like most about the course?**

10. **What do you like least about the course?**

11. **List three things you really like about this course and would not want to change.**

12. **What suggestions do you have to improve this course?**

13. **With regard to the delivery, format, practices, policies & procedures of this course and/or courses like it, what are your three biggest frustrations?**

14. **What solutions or changes would you like to see that would alleviate these frustrations?**

15. **What topics/concepts/skills presented in this course are still unclear to you?**

16. **The topics/concepts/skills presented in this course I understand best are:**

17. **The topics/concepts/skills presented in this course I understand least are**:

18. **What classroom strategies/activities are the most effective for your learning style?**

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*.)

20. **What other questions should have been asked? List them here.**

Organization – Did the most important topics stand out clearly? Could you see how the topics fit together? Were there topics that went too quickly? Topics that went too slowly?