

EE 4387/5390 Introduction to Power Electronics

The University of Texas at El Paso

Spring 2020

Syllabus

Instructor: David G. Guzman

Office: E328

Office Hours: Tuesdays & Thursdays 4:45 p.m. to 5:45 p.m. by appointment. Will be available via phone/facetime/skype if requested.

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1. Location & Time:

Online Class, Tuesday & Thursday from 6:00 p.m. to 7:20 p.m.

2. Course Description:

This course will introduce the architecture and operating principles of electronic power converters; including the modeling, simulation, and design of power converters. Applications in areas such as power engineering, renewable energy, aerospace engineering, and transportation will be discussed.

3. Textbook:

Power Electronics, A First Course. Ned Mohan.

4. Grading:

Attendance	10%	Students are required to log into every class in blackboard.
Online Assignments	20%	
Exam 1	20%	
Exam 2	20%	Will be a time restricted "take-home" exam.
Final Exam*	30%	Thursday May 14th from 7:00 p.m. - 9:45 p.m. Will be a time restricted "take-home" exam.

Total	100%	

*Final Exam will be comprehensive

Final Grade Scale

A = 90.00% - 100.00%

B = 80.00% - 89.99%

C = 70.00% - 79.99%

D = 60.00% - 69.99%

F = < 60.00%

5. Homework

5.1. Homework will be assigned as material readings and practice problems during class. Homework assignments will not be graded but students are highly encouraged to read the assigned reading material and perform the assigned practice problems in preparation for **online assignments** and exams.

6. General Policies

6.1. Absences:

Students are highly encouraged not to miss any **online** class session due to the complex class material to be presented. No make-up work, points, or exams will be granted unless official written documentation is presented in a timely manner. No more than three “excused” absences will be allowed. Timely manner means at least one week (7 calendar days) in advance for non-emergency related situations. Emergencies will require proper written documentation via e-mail.

6.2. Punctuality:

Attendance will be taken by verifying **the head count in blackboard at the end of every online class session and will count towards final grade.**

6.3. Course Drop Deadline:

The deadline to drop this course with an automatic W is **April 3, 2020.**

6.4. Cellphone & Laptops:

Electronic devices will be allowed during class, however any student that is using this technology for activities other than those related to the class will be asked to leave the classroom. This includes social media and any other activity that goes against any official school policy.

6.5. Food and Drinks:

Any non-alcoholic drink will be allowed in class. No food will be allowed during class.

6.6. General Class Behavior:

I reserve the right to refuse service... this will be based in dishonest, disruptive, illegal, or unethical behavior.

6.7. Academic Dishonesty:

“Any student who commits an act of academic dishonesty is subject to discipline. Academic dishonesty includes, and is not limited to cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, and any act designed to give unfair advantage to a student or the attempt to commit such acts. Proven violations of the detailed regulations, as printed in the *Handbook of Operating Procedures (HOP)*, and available in the Office of Student Life and on the homepage of the Office of Student Life at www.utep.edu/dos, can result in sanctions ranging from disciplinary probation, to a failing grade on the work in question, to a failing grade in the course, to suspension or dismissal, among others.”

6.8. Sharing class material online:

Posting and/or sharing any exam, quiz, or any other class material in social media or public websites is prohibited and will be considered academic dishonesty as stated in section 7.7 of this syllabus.

6.9. Accommodations under ADA:

If you feel you may have a disability that requires special accommodations please contact the Disabled Student Services Office at (915) 747-5148, go to room 106E Union, or e-mail dss@utep.edu.