INDIANA TECH

Course Syllabus Cover Page – Spring 2021

Course Number: EET 1200

Course Title: Electronic Circuits II

Course Description:

This is the second course in a two course sequence on the fundamentals of circuit analysis. Topics include AC analysis, transformers, fundamentals of filters, diodes, and transistors. More advanced techniques of pSpice simulation will be studied.

Prerequisites: EET 1100 and MA 1055 or concurrent registration.

Credit hours: 3

Learning Outcomes:

Upon completion of the course students will be able to:

1. Analyze AC circuits using phasors and impedance
2. Compute the reactance needed for maximum power transfer
3. Use ideal transformers models to analyze circuits with transformers
4. Compute corner frequency for first order filters.
5. Analyze circuit containing diodes.
6. Discuss the application of diodes as current protection devices
7. Perform DC analysis on bipolar and MOSFET transistors.
8. Discuss the use of power MOSFETS.
9. Use a pSpice simulator to analyze AC circuits and circuits with transistors.

College of Professional Studies
EET 1200 Electronic Circuits II
Online Syllabus Course Content

Instructor Information

Please see Professor Profile at the Blackboard instructional site.

Course Schedule

Please see Course Schedule in the Course Syllabus area of the Blackboard instructional site.

Online Course Policies

All of the online courses taken by students are required to follow the policies posted online at http://online.indianatech.edu/tech-policies/policies/. Please review the posted policies carefully. If you are unable to abide by the policies listed, please contact the Warrior Information Network (WIN) at 888.832.4742 and request to withdraw from this course.

Textbook

Hayt, W., Kemmerly, J., & Durbin, S. (2012). Engineering Circuit Analysis (8th ed.). New York, NY: McGraw-Hill.

Grading Events & Grading Criteria
Unless otherwise specified, all assignments must be submitted via Blackboard.

Course Preparation Quiz – (4% of final grade)

This quiz contains five (5) questions. This is a graded, untimed quiz. You may repeat this quiz as many times as you would like in order to earn a perfect score. *(Please note that each attempt will contain a different set of questions).*

Quizzes - (87% of final grade)

There will be five (5) quizzes in this course – You must complete the quizzes by the assigned due date. The quizzes will directly reflect what is covered in lectures and homework assignments. Not that the last module of the course contains two quizzes. One that is due on Thursday and the other that is due on Sunday.

Homework - (9% of final grade)

You will be assigned problem from the textbook to complete in every module. These homework assignments will be due on Sunday with one exception. Homework 5 is due on Thursday in order for feedback to be given before you take Quiz 5.

You should write you solution for the homework on separate sheets of paper and then scan and upload them into blackboard. There are several options for scanning. There are many free apps for android and iOS that will convert a picture of your assignment into a pdf document. This method is the preferred method for submitting homework assignments.

Grading Scale
The following grading scale will be used to assign a grade at the end of the course:

Percentage Achieved	Grade	Percentage Achieved	Grade	Percentage Achieved	Grade
90% or above	A	70% or above	C	Below 60%	F
80% or above	B	60% or above	D		

Late Assignments
All assignments and required online activities are due according to the deadline listed in the course schedule. Granting deadline extension is the course instructor's autonomy.

Incompletes
If you are unable to complete the requirements for this course due to extenuating circumstances, an Incomplete grade (I) may be granted if you meet the general guidelines stated below.

General Guidelines for submitting a course incomplete request:
- More than 50% of the course session has elapsed.
- The student has encountered an unexpected situation that is beyond his or her control.
- The student is
  - in good academic standing -- up-to-date on all of the course assignments and has at least an overall passing grade,
  - able to complete all of the remaining coursework within a session (5 weeks for a undergraduate course and 6 weeks for a graduate course) that immediately follows the session the student is currently enrolled, and
  - able to provide support documentations to substantiate the need for extra time should a session is not enough to complete the course requirements.

If an Incomplete is granted, the instructor will set a deadline for all work to be completed. **The deadline cannot go past one (1) session.** All incomplete grades and deadlines are subject to approval by the designated University authority.

Course Related Communication
Online courses are conducted in an accelerated format. Timely communication is very important. When receiving emails from your classmates or instructor, please respond as soon as you can.

Students are REQUIRED to use their Indiana Tech email account for all course related communication. The most direct and effective way to email your course instructor and classmates, is by using the Send Email function within the Blackboard course site. When you use the Send Email function, you automatically receive a carbon copy of the email you sent. In the event when you need to substantiate your claim that you did email your classmates or instructor, you can show that carbon copy to the person(s) who requested it.

Please note that Blackboard only permits you to send email, it does not provide you with the check email function. All of the emails your classmates and instructor send to you will be

delivered to your Indiana Tech email account. You are strongly encouraged to check your Indiana Tech email account regularly, preferably several times a week, to minimize the likelihood of miscommunication.

The University policy requires each online course instructor to respond to a student's email within 24 hours. Unless there is an extraneous situation that prevents the instructor from following this rule, you can expect to hear from the instructor within 24 hours. If you don't receive a reply within 24 hours, please do not hesitate to follow up with another email or forward the carbon copy of the email you sent to onlinesupport@indianatech.edu with a note "Please help. It's been 24 hours and I have not heard from my instructor" and the University support staff will act on your behalf to contact your course instructor