The University of Texas at Tyler Department of Electrical Engineering Houston Engineering Campus

<u>Course: EENG 4110 – Electric Power Systems Laboratory</u> (Required for students entering the electrical engineering program in or after fall,2016)

Syllabus

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Magnetic circuits; principles of electromagnetic energy conversion; synchronous machines; three-phase induction machines; Transformers; DC machines; fundamentals of power systems modeling and design; power flow analysis.

Prerequisites: EENG 4310		
Credits:	3 (3 hours lecture, 1 hours laboratory per week	
Text(s): (Required)	Glover,Overbye and Sarma, Power System Analysis and Design, 6 th ed., ISBN-10: 1305632133 ; ISBN-13: 9781305632134	
Additional Laboratory procedure handouts (provided on-line) Material: (Recommended)		
Course Coo	ordinator: Fatemeh Kalantari – fkalantari@uttyler.edu	

Topics Covered:

- 1. 3-phase Circuits and Systems
- 2. AC Power
- 3. Power Transformers
- 4. Induction Machines
- 5. Synchronous Machines
- 6. Power Transmission Line Models
- 7. Synchronous alternator

Evaluation Methods: (only items in dark print apply):

- 1. Examinations / Quizzes
- 2. Homework
- 3. Report
- 4. Computer Programming
- 5. Project
- 6. Presentation
- 7. Course Participation
- 8. Peer Review

Course Learning Outcomes (formerly Objectives) 1: By the end of this course students will be able to:

- 1. Set up experiments to measure the three-phase power.
- 2. Set up experiments to determine the equivalent circuit of a power transformer.
- 3. Set up experiments to determine the voltage regulation of a power transformer.
- 4. Set up experiments to determine the equivalent circuit of a three-phase induction motor.
- 5. Set up experiments to determine the torque/slip characteristics three-phase induction motor.
- 6. Set up experiments demonstrate the voltage regulation of synchronous machines.
- 7. Set up experiments to determine the characteristics of DC machines.
- 8. Set up experiments to test power transmission lines.
- 9. Model electric power system components.
- 10. Perform load-flow studies of electric power systems.

¹Numbers in brackets refer to method(s) used to evaluate the course objective.

Relationship to Program Outcomes (only items in dark print apply)²: This course supports the following Electrical Engineering Program Outcomes, which state that our students will:

- 1. Have the ability to apply knowledge of the fundamentals of mathematics, science, and engineering. [1,2,3,4,5,9,10]
- 2. Have the ability to use modern engineering tools and techniques in the practice of electrical engineering. [1,2,3,4,5,9,10]
- 3. have the ability to analyze electrical circuits, devices, and systems [1,2,3,4,5,9,10]
- 4. Have the ability to design electrical circuits, devices, and systems to meet application requirements. [19]
- 5. Have the ability to design and conduct experiments, and analyze and interpret experimental results. [1,2,3,4,5,9]
- 6. Have the ability to identify, formulate, and solve problems in the practice of electrical engineering using appropriate theoretical and experimental methods. [9,10]
- 7. Have effective written, visual, and oral communication skills. [17]
- 8. possess an educational background to understand the global context in which engineering is practiced, including
 - a. Knowledge of contemporary issues related to science and engineering. [10]
 - b. The impact of engineering on society. [21]
 - c. the role of ethics in the practice of engineering.[13]
- 9. have the ability to contribute effectively as members of multi-disciplinary engineering teams.[20]
- **10.** Have a recognition of the need for and ability to pursue continued learning throughout their professional careers. [4]

²Numbers in brackets refer to course learning outcomes/objective(s) that address the Program Outcome.

Contribution to Meeting Professional Component: (in semester hours)

Mathematics and Basic Sciences:	0	hours
Engineering Sciences and Design:	1	hours
General Education Component:	0	hours

Course Policies

Grades and Grading

Specific guidelines and grading criteria for assignments are located in the assignment descriptions and modules in the Canvas LMS.

Final grades for the course will be based upon the following point assignments:

Α	90 – 100
В	80 – 89
С	70 – 79
D	60 – 69
F	Below 60

The instructor reserves the right to reduce the ranges in the above table if deemed appropriate. If a reduction (e.g. changing the range for A to 88 - 100) is used, it will be applied to every student in the course.

Late Assignments

Late assignments will only be accepted at the discretion of faculty. There will be a 10% of the assignment points penalty for each day an assignment is submitted after the due date.

Exam Retake

There will be no exam-retake for this course.

<u>Incomplete Grade</u>

If a student, because of extenuating circumstances, is unable to complete all of the requirements for a course by the end of the semester, then the instructor may recommend an Incomplete (I) for the course. The "I" may be assigned in lieu of a grade only when all of the following conditions are met: (a) the student has been making satisfactory progress in the course; (b) the student is unable to complete all course work or final exam due to unusual circumstances that are beyond personal control and are acceptable to the instructor; and (c) the student presents these reasons prior to the time that the final grade roster is due. When an incomplete is assigned, the student and instructor must comply the UT Tyler process for incomplete courses as described at https://www.uttyler.edu/registrar/policies/incompletes.php.

Grade Appeals

A student who wishes to contest a grade given by an instructor must initiate the procedure by contacting the instructor who assigned the grade. The instructor and the student should informally review the criteria for assignment of grades and the student's performance. The instructor may affirm the grade or revise the grade.

If the student is not satisfied after the informal discussion with the instructor, then the student may initiate a formal grade appeal by following the procedure described in section 5.11.1 of the UT Tyler Handbook of Operating Procedures

(http://catalogs.uttyler.edu/en/UTTyler/HOP/Series-500-Student-Affairs/5-11-1-Grade-Appeals).

University Policies (Updated January 2018)

https://www.uttyler.edu/academicaffairs/files/syllabuspolicy.pdf

UT Tyler Honor Code

Every member of the UT Tyler community joins together to embrace: Honor and integrity that will not allow me to lie, cheat, or steal, nor to accept the actions of those who do. Students Rights and Responsibilities To know and understand the policies that affect your rights and responsibilities as a student at UT Tyler, please follow this link: http://www.uttyler.edu/wellness/rightsresponsibilities.php

Campus Carry

We respect the right and privacy of students 21 and over who are duly licensed to carry concealed weapons in this class. License holders are expected to behave responsibly and keep a handgun secure and concealed. More information is available at http://www.uttyler.edu/about/campus-carry/index.php

UT Tyler a Tobacco-Free University

All forms of tobacco will not be permitted on the UT Tyler main campus, branch campuses, and any property owned by UT Tyler. This applies to all members of the University community, including students, faculty, staff, University affiliates, contractors, and visitors. Forms of tobacco not permitted include cigarettes, cigars, pipes, water pipes (hookah), bidis, kreteks, electronic cigarettes, smokeless tobacco, snuff, chewing tobacco, and all other tobacco products. There are several cessation programs available to students looking to quit smoking, including counseling, quitlines, and group support. For more information on cessation programs please visit www.uttyler.edu/tobacco-free.

Grade Replacement/Forgiveness and Census Date Policies

Students repeating a course for grade forgiveness (grade replacement) must file a Grade Replacement Contract with the Enrollment Services Center (ADM 230) on or before the Census Date of the semester in which the course will be repeated. Grade Replacement Contracts are available in the Enrollment Services Center or at http://www.uttyler.edu/registrar.

Each semester's Census Date can be found on the Contract itself, on the Academic Calendar, or in the information pamphlets published each semester by the Office of the Registrar. Failure to file a Grade Replacement Contract will result in both the original and repeated grade being used to calculate your overall grade point average. Undergraduates are eligible to exercise grade replacement for only three course repeats during their career at UT Tyler; graduates are eligible for two grade replacements. Full policy details are printed on each Grade Replacement Contract.

The Census Date is the deadline for many forms and enrollment actions of which students need to be aware. These include:

- Submitting Grade Replacement Contracts, Transient Forms, requests to withhold directory information, approvals for taking courses as Audit, Pass/Fail or Credit/No Credit.
- Receiving 100% refunds for partial withdrawals. (There is no refund for these after the Census Date)

- Schedule adjustments (section changes, adding a new class, dropping without a "W" grade)
- Being reinstated or re-enrolled in classes after being dropped for non-payment
- Completing the process for tuition exemptions or waivers through Financial Aid State-

Mandated Course Drop Policy

Texas law prohibits a student who began college for the first time in Fall 2007 or thereafter from dropping more than six courses during their entire undergraduate career. This includes courses dropped at another 2-year or 4-year Texas public college or university. For purposes of this rule, a dropped course is any course that is dropped after the census date (See Academic Calendar for the specific date).

Exceptions to the 6-drop rule may be found in the catalog. Petitions for exemptions must be submitted to the Enrollment Services Center and must be accompanied by documentation of the extenuating circumstance. Please contact the Enrollment Services Center if you have any questions.

Disability/Accessibility Services

In accordance with Section 504 of the Rehabilitation Act, Americans with Disabilities Act (ADA) and the ADA Amendments Act (ADAAA) the University of Texas at Tyler offers accommodations to students with learning, physical and/or psychological disabilities. If you have a disability, including a non-visible diagnosis such as a learning disorder, chronic illness, TBI, PTSD, ADHD, or you have a history of modifications or accommodations in a previous educational environment, you are encouraged to visit https://hood.accessiblelearning.com/UTTyler and fill out the New Student application. The Student Accessibility and Resources (SAR) office will contact you when your application has been submitted and an appointment with Cynthia Lowery, Assistant Director of Student Services/ADA Coordinator. For more information, including filling out an application for services, please visit the SAR webpage at http://www.uttyler.edu/disabilityservices, the SAR office located in the University Center, # 3150 or call 903,566,7079.

Student Absence due to Religious Observance

Students who anticipate being absent from class due to a religious observance are requested to inform the instructor of such absences by the second class meeting of the semester.

Student Absence for University-Sponsored Events and Activities Revised 01/18

If you intend to be absent for a university-sponsored event or activity, you (or the event sponsor) must notify the instructor at least two weeks prior to the date of the planned absence. At that time the instructor will set a date and time when make-up assignments will be completed.

Social Security and FERPA Statement

It is the policy of The University of Texas at Tyler to protect the confidential nature of social security numbers. The University has changed its computer programming so that all students have an identification number. The electronic transmission of grades (e.g., via e-mail) risks violation of the Family Educational Rights and Privacy Act; grades will not be transmitted electronically.

Emergency Exits and Evacuation

Everyone is required to exit the building when a fire alarm goes off. Follow your instructor's directions regarding the appropriate exit. If you require assistance during an evacuation, inform your instructor in

the first week of class. Do not re-enter the building unless given permission by University Police, Fire department, or Fire Prevention Services.

Student Standards of Academic Conduct

Student Standards of Academic Conduct Disciplinary proceedings may be initiated against any student who engages in scholastic dishonesty, including, but 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, any act designed to give unfair advantage to a student or the attempt to commit such acts.

- i. "Cheating" includes, but is not limited to:
 - copying from another student's test paper;
 - using, during a test, materials not authorized by the person giving the test;
 - failure to comply with instructions given by the person administering the test;
 - possession during a test of materials which are not authorized by the person giving the test, such as class notes or specifically designed "crib notes". The presence of textbooks constitutes a violation if they have been specifically prohibited by the person administering the test;
 - using, buying, stealing, transporting, or soliciting in whole or part the contents of an unadministered test, test key, homework solution, or computer program:
 - collaborating with or seeking aid from another student during a test or other assignment without authority;
 - discussing the contents of an examination with another student who will take the examination;
 - divulging the contents of an examination, for the purpose of preserving questions for use by another, when the instructors has designated that the examination is not to be removed from the examination room or not to be returned or to be kept by the student;
 - substituting for another person, or permitting another person to substitute for oneself to take a course, a test, or any course-related assignment;
 - paying or offering money or other valuable thing to, or coercing another person to obtain an unadministered test, test key, homework solution, or computer program or information about an unadministered test, test key, home solution or computer program;
 - falsifying research data, laboratory reports, and/or other academic work offered for credit;
 - taking, keeping, misplacing, or damaging the property of The University of Texas at Tyler, or of another, if the student knows or reasonably should know that an unfair academic advantage would be gained by such conduct; and
 - misrepresenting facts, including providing false grades or resumes, for the purpose of obtaining an academic or financial benefit or injuring another student academically or financially.
- ii. "Plagiarism" includes, but is not limited to, the appropriation, buying, receiving as a gift, or obtaining by any means another's work and the submission of it as one's own academic work offered for credit.
- iii. "Collusion" includes, but is not limited to, the unauthorized collaboration with another person in preparing academic assignments offered for credit or collaboration with another person to commit a violation of any section of the rules on scholastic dishonesty.
- iv. All written work that is submitted will be subject to review by plagiarism software.

UT Tyler Resources for Students

- UT Tyler Writing Center (903.565.5995), writingcenter@uttyler.edu
- UT Tyler Tutoring Center (903.565.5964), tutoring@uttyler.edu

- The Mathematics Learning Center, RBN 4021, this is the open access computer lab for math students, with tutors on duty to assist students who are enrolled in early-career courses.
- UT Tyler Counseling Center (903.566.7254)

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Prepared By:	Hassan El-Kishky	Date:	11 January 2018
	Fatemeh Kalantari		18 January 2019
	Yasser Mahgoub		21 August 2020



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EENG 4110.031 & .033 – Electric Power Systems

Course Outline

Semester / Year	Fall 2020	
Catalog Description	Magnetic circuits; principles of electromagnetic energy conversion; synchronous machines; three-phase induction machines; Transformers; DC machines; fundamentals of power systems modeling and design; power flow analysis.	
Prerequisites	EENG 4310	
Section number	.031 & .033	
Instructor name	Fatemeh Kalantari	
Contact info	Email: fkalantari@uttyler.edu	
Class Type / Location	Face to face, Power system laboratory	
Class Time	Tuesday 2:00 - 3:30pm (.031) & 3:30 - 5 pm (.033)	
Credits	1 credit	
Required Textbook	Glover, Sarma, and Overbye, "Power System Analysis and Design"	
	6 th ed., Thomson, 2016.	
Optional References	Hindmarch, Electrical Machines and their Applications, Pergamon Press, 2 nd	
Additional requirements	Instructor's lecture notes.	
Evaluation Method	Midterm and quizzes 20%	
	Final Exam 30%	
	Lab reports 30%	
	Class activity 20%	
Grading Policy / Scale	Letter grades Scale: A 90 – 100 B 80 – 89 C 70 – 79 D 60 – 69 F < 60	
Important events /	Census date:	
dates	Last day to withdraw:	
	Final date: Per published schedule by the registrar	



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Attendance / Makeup policy	Regular attendance is imperative if you want to do well in this course. Therefore, any student incurs four unexcused absents or more during the 15-week semester will result in an instant F grade for the course. In case you have an excuse to miss a class, it is your responsibility to keep up with the class work and be informed of all announcements made in the class on homework, tests etc.	
Course Learning	By the end of this course students will be able to:	
Outcomes / ABET	1. Set up experiments to measure the three-phase power.	
& PEOs relation	Set up experiments to determine the equivalent circuit of a power transformer.	
	3. Set up experiments to determine the voltage regulation of a power transformer.	
	4. Set up experiments to determine the equivalent circuit of a three-phase induction motor.	
	5. Set up experiments to determine the torque/slip characteristics three-phase induction motor.	
	6. Set up experiments demonstrate the voltage regulation of synchronous machines.	
	7. Set up experiments to determine the characteristics of DC machines.	
	8. Set up experiments to test power transmission lines.	
	9. Model electric power system components. Perform load-flow studies of electric power systems.	
Tentative Topics	1. 3-phase Circuits and Systems	
	2. AC Power	
	3. Power Transformers	
	4. Induction Machines5. Synchronous Machines	
	6. Power Transmission Line Models	
	7. Synchronous alternator	

Homework Policy:

- 1. Homework will be assigned each week and is due in a week unless other instructions are given. The homework problems will be posted in Canvas. You need to scan and upload your answers to the assigned section in Canvas. It will be graded technically and overall quality.
- 2. Students may discuss their homework solutions with one another, but each student must submit their own, independent solution (i.e. you may not just copy someone else's homework).
 - ✓ All homework should include a clear statement of the problem to be solved, indicating the known and unknown parameters. Engineering paper is preferred.



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- ✓ Number all equations, indicate and describe variable substitutions and mathematical procedure, and highlight (enclose, or box) your answers.
- ✓ Always indicate appropriate units in answer and study them to determine if it is reasonable.

Quizzes:

There will be announced and unannounced quizzes during the semester to check your class activity and performance during the semester. They can be in groups or individually and are graded towards your final exam.

Exams:

- 1. Answer reflecting the solutions manual are not considered correct and will be turned in to the Dean of Students as copying.
- 2. Absolutely no cell phones, graphing calculators, laptops, iPads, iPods, smart watches, or any other smart technology devices are allowed in exams.
- 3. Make-ups for in-class exams for documented emergencies.
- 4. Exam grades will be returned, students will be allowed to view their exams, and the professor will keep original exams.
- 5. Any grade changes must be resolved no later than 24 hours after exam has been handed out. If you are absent, then it is your responsibility to meet with me to see your exam grade.

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tobacco, snuff, chewing tobacco, and all other tobacco products. There are several cessation



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programs available to students looking to quit smoking, including counseling, guidelines, and group support.

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Disability/Accessibility Services

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diagnosis such as a learning disorder, chronic illness, TBI, PTSD, ADHD, or you have a history of modifications or accommodations in a previous educational environment, you are encouraged to visit https://hood.accessiblelearning.com/UTTyler and fill out the New Student application. The Student Accessibility and Resources (SAR) office will contact you when your application has been submitted and an appointment with Cynthia Lowery, Assistant Director of Student Services/ADA Coordinator. For more information, including filling out an application for services, please visit the SAR webpage at http://www.uttyler.edu/disabilityservices, the SAR office located in the University Center, # 3150 or call 903.566.7079.

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Student Standards of Academic Conduct

Disciplinary proceedings may be initiated against any student who engages in scholastic dishonesty, including, but 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, any act designed to give unfair advantage to a student or the attempt to commit such acts.

- i. "Cheating" includes, but is not limited to:
 - copying from another student's test paper.
 - using, during a test, materials not authorized by the person giving the test.
 - failure to comply with instructions given by the person administering the test.
 - possession during a test of materials which are not authorized by the person giving the test, such as class notes or specifically designed "crib notes". The presence of textbooks constitutes a violation if they have been specifically



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- prohibited by the person administering the test.
- using, buying, stealing, transporting, or soliciting in whole or part the contents of an administered test, test key, homework solution, or computer program.
- collaborating with or seeking aid from another student during a test or other assignment without authority.
- discussing the contents of an examination with another student who will take the examination.
- divulging the contents of an examination, for the purpose of preserving questions
 for use by another, when the instructors has designated that the examination is not
 to be removed from the examination room or not to be returned or to be kept by
 the student:
- substituting for another person or permitting another person to substitute for oneself to take a course, a test, or any course-related assignment.
- paying or offering money or other valuable thing to, or coercing another person to obtain an administered test, test key, homework solution, or computer program or information about an administered test, test key, home solution or computer program.
- falsifying research data, laboratory reports, and/or other academic work offered for credit.
- taking, keeping, misplacing, or damaging the property of The University of Texas at Tyler, or of another, if the student knows or reasonably should know that an unfair academic advantage would be gained by such conduct; and
- misrepresenting facts, including providing false grades or resumes, for the purpose of obtaining an academic or financial benefit or injuring another student academically or financially.
- ii. "Plagiarism" includes, but is not limited to, the appropriation, buying, receiving as a gift, or obtaining by any means another's work and the submission of it as one's own academic work offered for credit.
- iii. "Collusion" includes, but is not limited to, the unauthorized collaboration with another person in preparing academic assignments offered for credit or collaboration with another person to commit a violation of any section of the rules on scholastic dishonesty.
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