Transformers (ELPT 2323 6A1)

CREDIT
3  Semester Credit Hours (2 hour lecture, 3 hours lab)

MODE OF INSTRUCTION
Face to Face

PREREQUISITE/CO-REQUISITE:
None

COURSE DESCRIPTION
Transformer types, construction, connections, protection, grounding, and associated safety procedures.

COURSE OBJECTIVES
Upon completion of this course, the student will be able to:
Describe how transformers operate and the operating characteristics of various types; compute transformer sizes for various applications; summarize National Electric Code (NEC) regulations governing the installation of transformers; explain the types and purposes of grounding transformers; and demonstrate proper safety procedures.

INSTRUCTOR CONTACT INFORMATION
Instructor:  J.D. Haire
Email:   jdhaire1@lit.edu
Office Phone:  409-386-0225
Office Location:  1355 MLK Silsbee, TX 77656
Office Hours:  Monday – Friday, 7:30 – 8:00 AM, 12:00 – 1:00 PM

REQUIRED TEXTBOOK AND MATERIALS
Lineman’s and Cable man’s Handbook (Thirteenth Edition) by Thomas M. Shoemaker, James E. Mack

ATTENDANCE POLICY
•  Class attendance is important to obtain the educational objectives of this course. Regular attendance and being on time for classes will have a positive effect on your academics and employment opportunities.
•  Two absences will result 1 letter grade drop, three absences drop 2 letter grades.
•  Four absences result in an F for the semester.

Approved:  JD/1-12-24
DROP POLICY
If you wish to drop a course, you are responsible for initiating and completing the drop process. If you stop coming to class and fail to drop the course, you will earn an “F” in the course.

COURSE CALENDAR

<table>
<thead>
<tr>
<th>DATE</th>
<th>TOPIC</th>
<th>READINGS (Due on this Date)</th>
<th>ASSIGNMENTS (Due on this Date)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/30/2024</td>
<td>Homework 1</td>
<td></td>
<td>2/8/2024</td>
</tr>
<tr>
<td>2/6/2024</td>
<td>Worksheet 1</td>
<td></td>
<td>2/13/2024</td>
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<tr>
<td>2/20/2024</td>
<td>Homework 2</td>
<td></td>
<td>2/22/2024</td>
</tr>
<tr>
<td>2/20/2024</td>
<td>Worksheet 2</td>
<td></td>
<td>2/28/2024</td>
</tr>
<tr>
<td>3/21/2024</td>
<td>Banks 1</td>
<td></td>
<td>3/27/2024</td>
</tr>
<tr>
<td>4/3/2024</td>
<td>Three Phase 1</td>
<td></td>
<td>4/10/2024</td>
</tr>
<tr>
<td>4/11/2024</td>
<td>Banks 3</td>
<td></td>
<td>4/17/2024</td>
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<tr>
<td>4/18/2024</td>
<td>Three Phase 2</td>
<td></td>
<td>4/24/2024</td>
</tr>
<tr>
<td></td>
<td>Three Phase Final</td>
<td></td>
<td>5/1/2024</td>
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<tr>
<td></td>
<td>Bank Practical</td>
<td></td>
<td>5/2/2024</td>
</tr>
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</table>

COURSE EVALUATION
Final grades will be calculated according to the following criteria:

<table>
<thead>
<tr>
<th>Activity</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daily Grades</td>
<td>10%</td>
</tr>
<tr>
<td>Exam 1 – Single Phase</td>
<td>20%</td>
</tr>
<tr>
<td>Exam 2 – Three Phase</td>
<td>20%</td>
</tr>
<tr>
<td>Exam 3 – Regulators</td>
<td>15%</td>
</tr>
<tr>
<td>Practical 1 – Banks</td>
<td>20%</td>
</tr>
<tr>
<td>Practical 2 – Regulators</td>
<td>15%</td>
</tr>
</tbody>
</table>

| Total                   | 100%       |

Grade Points will be awarded in accordance with the college catalog. Assignments are due on the due date assigned. Late assignments are not accepted.
GRADE SCALE

- 90-100 A
- 80-89 B
- 70-79 C
- 60-69 D
- 0-59 F

TECHNICAL REQUIREMENTS
The latest technical requirements, including hardware, compatible browsers, operating systems, etc. can be online at https://lit.edu/online-learning/online-learning-minimum-computer-requirements. A functional broadband internet connection, such as DSL, cable, or WiFi is necessary to maximize the use of online technology and resources.

DISABILITIES STATEMENT
The Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. LIT provides reasonable accommodations as defined in the Rehabilitation Act of 1973, Section 504 and the Americans with Disabilities Act of 1990, to students with a diagnosed disability. The Special Populations Office is located in the Eagles’ Nest Room 129 and helps foster a supportive and inclusive educational environment by maintaining partnerships with faculty and staff, as well as promoting awareness among all members of the Lamar Institute of Technology community. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409)-951-5708 or email specialpopulations@lit.edu. You may also visit the online resource at Special Populations - Lamar Institute of Technology (lit.edu).

STUDENT CODE OF CONDUCT STATEMENT
It is the responsibility of all registered Lamar Institute of Technology students to access, read, understand and abide by all published policies, regulations, and procedures listed in the LIT Catalog and Student Handbook. The LIT Catalog and Student Handbook may be accessed at www.lit.edu. Please note that the online version of the LIT Catalog and Student Handbook supersedes all other versions of the same document.

STARFISH
LIT utilizes an early alert system called Starfish. Throughout the semester, you may receive emails from Starfish regarding your course grades, attendance, or academic performance. Faculty members record student attendance, raise flags and kudos to express concern or give praise, and you can make an appointment with faculty and staff all through the Starfish home page. You can also login to Blackboard or MyLIT and click on the Starfish link to view academic alerts and detailed information. It is the
responsibility of the student to pay attention to these emails and information in Starfish and consider taking the recommended actions. Starfish is used to help you be a successful student at LIT.

**ADDITIONAL COURSE POLICIES/INFORMATION**

1. No food, drinks in class.
2. Daily lab grades cannot be made up.
3. No make ups for Lab tests.
4. Any written test retake has an 80 points as the maximum grade.
5. LIT is a tobacco free campus- no tobacco products allowed
6. Students must follow safety rules and procedures at all times. Failure to follow safety rules will require disciplinary action not limited to expulsion from LIT.
7. Students must have and wear all required clothing including climbing boots at all times, and have PPE and tools for participation in class and Lab.
8. Turn off all Cell Phones during class, lab and when on the field. Ear buds and smart watches are to be put away during class, lab and when on the field. Unauthorized cell phone, ear bud, and/or smart watch use will result in a 0 for the daily grade.
9. Do not bring children to class.
10. Cheating of any kind will not be tolerated. Students caught cheating or helping someone to cheat can and will be removed from the class for the semester. Cheating can result from expulsion from LIT.
11. Internet Usage
   a. Classroom computers have access to the internet.
   b. Student usage of the internet will be monitored.
   c. Proper usage of the internet will be allowed. Used for classroom research or as directed.
   d. Any unauthorized use of the internet will not be tolerated.
   e. Improper usage of the internet, such as profanity, pornography, gambling, etc... will result in disciplinary action not limited to expulsion from LIT.
12. Horseplay and fighting will not be tolerated. Participating in horseplay and/or fighting will require disciplinary action not limited to expulsion from LIT.