

TEC DE MONTERREY CAMPUS AGUASCALIENTES

ESCUELA DE INGENIERÍA Y CIENCIAS

AUGUST - DECEMBER 2019

PÁGINA 1

1. GENERAL INFORMATION OF THE COURSE

Subject: Electrical Circuits I

Code: TE1002

Group: 1

Schedule: Monday/Thursday 10 am – 11:30 am

Room: 224

Platform: McGraw-Hill Connect <https://connect.mheducation.com/class/circuits1>

Platform or additional site: Blackboard <https://miscursos.tec.mx/>

Whatsapp: Circuits 1 AD2019

Web: www.circuits.website

2. TEACHER'S INFORMATION

Teacher's name: Juan Manuel Campos Sandoval

E-mail: juan-manuel.campos@tec.mx

Cellphone: 4491070807

You can reach your teacher at: Building 2 Second Floor

Phone: 4499100900 Ext. 5323

Time and place for tutoring: 5-6 pm and anytime on demand.

3. COURSE OBJECTIVE:

“Upon completion of this course, students will be able to analyze basic electrical circuits formed by resistors, capacitors, inductors and direct current power supplies, interpreting the resulting interactions among them.”

4. COURSE POLICIES:

- a) **Punctuality:** arriving time, absence leaves and turning activities in. There is no such thing as late arrivals or justified absences. Attendance will be checked in the first five minutes. The door will then be closed and no one will be allowed to come in late. In order to keep your attendance, you must remain in class throughout the whole class.
Responsibility: all activities should be turned in on time and according to given indications, otherwise they will not be taken into account. All the homework should be done individually, unless differently stated. Your homework must include your name, i.d.number, name of the course, group and subject
- b) **Conduct:** no food or drinks are allowed for intake in class; neither is the use of **tablets, mobile phones or other devices, unless specifically used for class activities**. Throughout class you must be paying attention, respectfully and in order, otherwise you will be requested to leave the room.
- c) **Homework:** All the homework will be taken into account as complete and turned in, and will be graded according to content and quality. Unless differently requested, all homework must be typed out and uploaded in Blackboard (no e-mails, or handwritten homework). The homework must be uploaded before class on the due date. Should you fail to turn it in, you will automatically lose the grade for that particular assignment.
- d) **Partial exams, quizzes and final exams.** There will be no changes on the appointed dates for exams (partials, final and quizzes). Should you be absent for any of these exams, an NP (not presented) will be reported, and you will lose your grade.

5. SCHEDULE



SCHEDULE

AD 2019

SUBJECT:	ELECTRICAL CIRCUITS I	CODE:	TE1002
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TEACHER	Dr. Juan Manuel Campos Sandoval	EMAIL	juan-manuel.campos@tec.mx
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CLASS DAYS	MONDAYS, THURSDAYS	TIME	10:00 AM – 11:30 AM	ROOM	224
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COURSE OBJECTIVE	UPON COMPLETION OF THIS COURSE, STUDENTS WILL BE ABLE TO ANALYZE BASIC ELECTRICAL CIRCUITS FORMED BY RESISTORS, CAPACITORS, INDUCTORS AND DIRECT CURRENT POWER SUPPLIES, INTERPRETING THE RESULTING INTERACTIONS AMONG THEM.
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PARTIAL GRADE	
QUIZES	20
HOMEWORK	15
SIMULATIONS	5
VIDEO PRACTICES	5
TEAM HOMEWORKS	5
INTEGRATOR EXAM	50
GRADE	100

FINAL GRADE	
PARTIAL 01	30
PARTIAL 02	30
NOTEBOOK	5
FINAL PROJECT	5
FINAL EXAM	25
SEMANA i	5
GRADE	100

BIBLIOGRAPHY	Engineering Circuit Analysis 9 th Edition William Hayt, Jack Kemmerly, Jamie Phillips and Steven Durbin McGraw-Hill 2019
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VIDEOS	SEVERAL ON YOUTUBE.COM
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COURSE TIMETABLE

#	DAY	DATE	ACTIVITIES
1	Monday	12 August	 Chapter 1 Introduction <i>Color balls</i>  Chapter 2 Basic Components and Electric Circuits Homework 1 <i>Group Dynamic: count-spin-squat-clap</i>
2	Thursday	15 August	 Chapter 2 Basic Components and Electric Circuits Homework 2 <i>Group Dynamic: close your eyes-see some special</i>
3	Monday	19 August	 Chapter 2 Basic Components and Electric Circuits Homework 3 <i>Group Dynamic: tell me what you are worry about</i>
4	Wednesday	21 August (extra)	Academic Tutoring: Homework 3
5	Thursday	22 August	 Chapter 3 Voltage and Current Laws <i>Study Homework</i> Quiz 1 Homework: Electrical Bills <i>Group Dynamic: communication-action (left, right, forward, back)</i> <i>Give news: ethical and citizen commitment</i>
6	Monday	26 August	 Chapter 3 Voltage and Current Laws Homework 4 <i>See news: ethical and citizen commitment</i> <i>Group Dynamic: Where did the Communication Go Wrong?</i>
7	Wednesday	28 August (extra)	Academic Tutoring: Homework 3 & 4
8	Thursday	29 August	 Chapter 3 Voltage and Current Laws <i>Study Homework</i> Homework 5 Quiz 2 <i>See news: ethical and citizen commitment</i>
9	Monday	2 September	 Chapter 3 Voltage and Current Laws Homework 6 <i>Give news: ethical and citizen commitment</i>
10	Wednesday	4 September (extra)	Academic Tutoring: Homework 5
11	Thursday	5 September	 Chapter 4 Basic Nodal and Mesh Analysis Quiz 3
12	Monday	9 September	 Chapter 4 Basic Nodal and Mesh Analysis Challenge 1 <i>Study Homework (Matlab Tutorial)</i> <i>Group Dynamic: Close your eyes. Walk. Hugs, greetings and slaps.</i> Homework 7
13	Wednesday	11 September (extra)	Academic Tutoring: Homework 7
14	Thursday	12 September	 Chapter 4 Basic Nodal and Mesh Analysis <i>Study Homework</i> <i>See news: ethical and citizen commitment</i> Quiz 4 Homework 8
15	Monday	16 September	HOLIDAY
16	Wednesday	18 September (extra)	Academic Tutoring: Homework 7 & 8
17	Thursday	19 September	First Partial Integrator Exam

18	Monday	23 September	 Chapter 4 Basic Nodal and Mesh Analysis Node vs Mesh Homework 9
19	Wednesday	25 September (extra)	Academic Tutoring: Homework 9
20	Thursday	26 September	 Chapter 5 Handy Circuit Analysis Techniques Superposition Homework 10
21	Monday	30 September	 Chapter 5 Handy Circuit Analysis Techniques <i>Group Dynamic: "Dame 3"</i> Source Transformation <i>See news: ethical and citizen commitment</i> Quiz 5 Homework 11
22	Wednesday	2 October (extra)	Academic Tutoring: Homework 10 & 11
23	Thursday	3 October	 Chapter 5 Handy Circuit Analysis Techniques LT Spice
24	Monday	7 October	 Chapter 5 Handy Circuit Analysis Techniques Thévenin & Norton I Homework 12
25	Wednesday	8 October (extra)	Academic Tutoring: Homework 12
26	Thursday	10 October	 Chapter 5 Handy Circuit Analysis Techniques Thévenin & Norton II Homework 12 Delta-Y equivalents Quiz 6 <i>Group Dynamic: "Una tras otra"</i>
27	Monday	14 October	 Chapter 5 Handy Circuit Analysis Techniques Delta-Y equivalents Homework 13  Chapter 6 The Operational Amplifier <i>See news: ethical and citizen commitment</i>
28	Wednesday	15 October (extra)	Academic Tutoring: Homework 13
29	Thursday	17 October	 Chapter 6 The Operational Amplifier Homework 14 Quiz 7
30	Monday	21 October	 Chapter 7 Capacitors and Inductors Homework 15 <i>See news: ethical and citizen commitment</i>
31	Wednesday	22 October (extra)	Academic Tutoring: Homework 13 & 14
32	Thursday	24 October	Second Partial Integrator Exam
33	Monday	28 October	Semana i
34	Thursday	31 October	Semana i
35	Monday	4 November	 Chapter 8 Basic RC and RL Circuits
36	Wednesday	6 November (extra)	Academic Tutoring: Homework 14
37	Thursday	7 November	 Chapter 8 Basic RC and RL Circuits
38	Monday	11 November	 Chapter 8 Basic RC and RL Circuits Homework 16
39	Wednesday	13 November (extra)	Academic Tutoring: Homework 15
40	Thursday	14 November	 Chapter 9 The RLC Circuit
41	Monday	18 November	HOLIDAY
42	Wednesday	20 November (extra)	Academic Tutoring: Homework 15
40	Thursday	21 November	 Chapter 9 The RLC Circuit
41	Monday	25 November	 Chapter 9 The RLC Circuit

Appendix 1: All dates on this timetable are subject to changes according to different unforeseen situations or events. The teacher will also be free to change or add activities or homework, according to the group's development and needs, in order to reach the objectives of the course.

Appendix 2: The activities and homework described in this TIMETABLE can be modified according to the teacher's criteria.

6. PARTIAL AND FINAL EVALUATION DATES

Final exam: Monday, 2nd December 2019