



United International University

Department of Computer Science and Engineering (CSE)

Course Syllabus

1	Course Title	Electrical Circuits													
2	Course Code	CSE 2113													
3	Trimester and Year	Fall, 2024													
4	Prerequisites	N/A													
5	Credit Hours	3													
6	Section	L & P													
7	Class Schedule	Sat/Tue: 11:11 AM - 12:30 PM (Section L) Sun/Wed: 3:11 PM - 4:30 PM (Section P)													
8	Classroom	Section L: 801 Section P: 309													
9	Course Teacher Information	Shekh. Md. Saifur Rahman Lecturer, Department of CSE Email: saifur@cse.uiu.ac.bd (Preferred) Contact No: 01303-529289 Office Room: 837 (D)													
10	Textbook	Fundamentals of Electric Circuits (5th Edition) by Alexandar and Sadiku (link)													
11	Reference	N/A													
12	Counseling Hours	<table><tr><th>Day</th><th>Counseling Hours</th></tr><tr><td>Saturday</td><td>8:30 AM - 11:10 AM, 12:31 PM - 3:10 PM</td></tr><tr><td>Sunday</td><td></td></tr><tr><td>Monday</td><td>As per makeup day schedule</td></tr><tr><td>Tuesday</td><td>12:31 PM - 1:50 PM</td></tr><tr><td>Wednesday</td><td>1:51 PM - 3:10 PM</td></tr></table>		Day	Counseling Hours	Saturday	8:30 AM - 11:10 AM, 12:31 PM - 3:10 PM	Sunday		Monday	As per makeup day schedule	Tuesday	12:31 PM - 1:50 PM	Wednesday	1:51 PM - 3:10 PM
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13	Course Contents (Approved by UGC)	Fundamental electrical concepts and measuring units, D.C. voltages, current, resistance and power, laws of electrical circuits and methods of network analysis, principles of D.C. measuring apparatus, laws of magnetic fields and methods of solving simple magnetic circuits. Alternating current, Instantaneous and RMS current, voltage and power, average power combinations of R, L & C circuits, Phasor, representation of sinusoidal quantities.													

14	Course Outcomes (COs)			
		COs	Description	
		CO1	Demonstrate an understanding of the basic circuit principles <i>by solving simple circuits.</i>	
		CO2	Apply circuit analysis techniques like KCL, KVL node and mesh analysis to analyze <i>larger circuits with multiple sources.</i>	
		CO3	Simplify <i>complex circuit</i> to speed up solving process by applying different circuit theorems	
		CO4	Analyze small AC circuits and relate different AC quantities <i>in practical application.</i>	
15	Teaching Method	Lecture, Case Studies, Project Developments.		
16	CO with Assessment methods			
		CO	Assessment Method	Percentage (%)
		-	Attendance	5
		-	Assignments	5
		-	Class Tests	20
		CO1, CO2	MID Exam	30
		CO3, CO4	Final Exam	40

Instructions:

1. Talking with each other when the class lecture is being delivered is strictly prohibited. For any problem, you can raise your hand and ask me.
2. If you want to go to the restroom, you can go without asking for my permission.
3. Makeup of the class test is discouraged. If you miss the class test, you have to let me know the reason through email prior to the class test with proper documents. **Do not email me without a strong reason for missing the class test.** If I find the reason satisfactory, I would take the makeup class test within one week. **Remember, after one week makeup of the class test is not allowed anymore.**
4. **Makeup of the MID/FINAL exam is highly discouraged.** If you miss the MID/FINAL exam, you have to let me know the reason with proper documents to the head of the dept. If the head of the dept. permits you. Only then I would take the MID/FINAL exam.
5. **While delivering the class lectures, you can ask any questions related to the topic if you don't understand without any hesitation. Do not be afraid to ask questions. If you can raise good questions, then there might be bonus marks for you!!**
6. If you fail to understand any topics, you can always email me or come to me during counseling hours.
7. I will try to give two assignments. One is before the MID exam and another is before the FINAL exam.

8. I will take four class tests and several class assessments (Instant). Best three from the CTs will be counted.