



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Lesson Plan & Work-done Diary for AY: 2026-27, ODD Semester

Course with Code: Electric Circuit Analysis _1BEE303				Faculty: Mrs. Geetha M A			Semester & Section: 3rd	
Class No.	Date planned (DD/MM)	Topics to be covered	TLP Planned	Class No.	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
MODULE-3a								
1	08/09/2026	Orientation Class, Introduction about the course, course module, Assessment (CIE,SEE)	ICT+ Chalk & Talk					
2	10/09/2026	Series Resonance	ICT+Chalk & Talk					
3	11/09/2026	Derivation of Resonant frequency, cut-off frequency, bandwidth and quality factor at series resonance.	ICT+ Chalk & Talk					
4	11/09/2026	Examples and analysis of series resonance circuit	Chalk & Talk					
5	15/09/2026	Parallel Resonance	Chalk & Talk					
6	17/09/2026	Derivation of Resonant frequency, cut-off frequency, bandwidth and quality factor at Parallel resonance.	Chalk & Talk					
7	18/09/2026	Examples and analysis of parallel resonance circuit	ICT+ Chalk & Talk					



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MODULE-1								
8	18/09/2026	Introduction, Classification of circuits, Concept of ideal and practical sources. Concept of dependent and independent sources.	ICT+ Chalk & Talk					
9	21/09/2026	Concept of Source transformation, Combination of sources	ICT+ Chalk & Talk					
10	22/09/2026	Numerical on Source transformation	Chalk & Talk					
11	24/09/2026	Concept of Star – delta transformation and derivation on it.	Chalk & Talk					
12	25/09/2026	Numerical on star – delta transformation.	Chalk & Talk					
13	25/09/2026	Analysis of networks by Mesh analysis methods for DC circuits with independent sources.	ICT+ Chalk & Talk					

14	28/09/2026	Analysis of networks by Nodal analysis methods for DC circuits with independent sources.	ICT+ Chalk & Talk					
15	29/09/2026	Analysis of networks by Mesh analysis methods for DC circuits with dependent sources.	ICT+ Chalk & Talk					
16	01/10/2026	Concept of super mesh analysis, Numerical on it	ICT+ Chalk & Talk					
17	5/10/2026	Concept of super node analysis, Numerical on it	Chalk & Talk					
18	6/10/2026	Analysis of networks by Mesh analysis methods for AC circuits with independent sources	ICT+ Chalk & Talk					
19	8/10/2026	Analysis of networks by Nodal analysis methods for AC circuits with independent sources	Chalk & Talk					
20	9/10/2026	Analysis of networks by Mesh analysis methods for AC circuits with dependent sources	Chalk & Talk					
21	9/10/2026	Analysis of networks by Nodal analysis methods for AC circuits with dependent sources	Chalk & Talk					
22	12/09/2026	Concept of source shifting and Duality Numerical on source shifting	ICT+ Chalk & Talk					
23	13/10/2026	Conduction of Quiz	ICT					



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MODULE-2								
24	15/10/2026	Superposition theorem+ Numericals on it with DC source	ICT+ Chalk & Talk					
25	16/10/2026	Numerical on Superposition theorem with AC source with dependent source	ICT+ Chalk & Talk					
26	16/10/2026	Reciprocity Theorem+ Numerical on it with DC sources	Chalk & Talk					
27	19/10/2026	Reciprocity Theorem+ Numerical on it with AC sources	Chalk & Talk					
28	26/10/2026	Thevenin's theorem +Numerical on it with DC sources with dependent sources	Chalk & Talk					
29	27/10/2026	Thevenin's theorem +Numerical on it with DC sources without dependent sources	ICT+ Chalk & Talk					
30	29/10/2026	Thevenin's theorem +Numerical on it with AC sources with and without dependent sources	ICT+ Chalk & Talk					

31	30/10/2026	Norton's theorem +Numerical on it with DC sources with and without dependent sources	ICT+Chalk & Talk					
32	30/10/2026	Norton's theorem +Numerical on it with AC sources with and without dependent sources	ICT+Chalk &Talk					
33	2/11/2026	Maximum power transfer theorem. Numerical on it with DC sources with and without dependent sources.	ICT+Chalk & Talk					
34	3/11/2026	Maximum power transfer theorem. Numerical on it with AC sources with and without dependent sources.	ICT+Chalk &Talk					
35	5/11/2026	Quiz on it	ICT					



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MODULE-5b								
36	6/11/2026	Definition, necessity of two port networks,	ICT+ Chalk & Talk					
37	6/11/2026	Admittance parameter and numerical on it.	ICT+ Chalk & Talk					
38	9/11/2026	Open circuit impedance, short circuit admittance	Chalk & Talk					
39	12/11/2026	Transmission parameters, Relation among all the three parameters,	Chalk & Talk					
40	13/11/2026	Numerical on it	Chalk & Talk					
41	13/11/2026	Evaluation of two port networks for simple circuits.	ICT+ Chalk & Talk					
42	16/11/2026	Numerical on it	ICT+ Chalk & Talk					
43	17/11/2026	Revision on it	ICT+ Chalk & Talk					

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MODULE-5a								
44	19/11/2026	Introduction to unbalanced 3 phase system	ICT+ Chalk & Talk					
45	20/11/2026	Analysis of three phase unbalanced systems 3 phase 3 wire	ICT+ Chalk & Talk					
46	20/11/2026	Examples of three phase unbalanced systems 3 phase 3 wire	Chalk & Talk					
47	23/11/2026	Calculation of real and reactive power for unbalanced systems 3 phase 3 wire	Chalk & Talk					
48	24/11/2026	Analysis of three phase unbalanced systems 3 phase 4 wire	Chalk & Talk					
49	01/12/2026	Example on three phase unbalanced systems 3 phase 4 wire	ICT+ Chalk & Talk					
50	03/12/2026	Calculation of real and reactive power for unbalanced systems 3 phase 4 wire	ICT+ Chalk & Talk					



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MODULE-3b 3c								
51	04/12/2026	Definition of initial and final condition, Virtues of initial conditions,	ICT+ Chalk & Talk					
52	04/12/2026	Behavior of circuit elements for initial and final condition	ICT+ Chalk & Talk					
53	07/12/2026	Evaluation of initial conditions for series circuits.	Chalk & Talk					
54	08/12/2026	Evaluation of final conditions for series circuits.	ICT+ Chalk & Talk					
55	10/12/2026	Evaluation of initial conditions for parallel circuits.	Chalk & Talk					
56	11/12/2026	Evaluation of final conditions for parallel circuits.	ICT+ Chalk & Talk					
57	11/12/2026	Numerical on it	Chalk & Talk					

58	14/12/2026	Quiz on module 3b,c	ICT					
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MODULE-4								
59	15/12/2026	Introduction to Laplace transformation, Solution of electrical circuits using LT, ,	ICT+ Chalk & Talk					
60	17/12/2026	Transformed electrical circuit, Laplace transformation of Impulse signals:	ICT+ Chalk & Talk					
61	18/12/2026	Laplace transformation of Step, Ramp signal	ICT+ Chalk & Talk					
62	18/12/2026	Laplace transformation of Sinusoidal signals and shifted functions.	ICT+ Chalk & Talk					
63	24/12/2026	Explanation about shifting theorem Initial and Final value theorems, Waveform Synthesis,	ICT+ Chalk & Talk					
64	28/12/2026	Laplace transformation of periodic Waveform	ICT+Chalk & Talk					
65	29/12/2026	Quiz	ICT+ Chalk & Talk					



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	Activity	Planned	Actual	Remarks
1	Theory Classes	42		
2	Assignments/Quizzes/ Self study	3		
3	Tutorials/ Extra classes	23		
4	Internal Assessments	3		
5	ICT based Teaching (% of usage in Curriculum)	50%		
Planning:65			Execution	
Faculty Signature:			Faculty Signature:	
HoD Signature:			HoD Signature:	