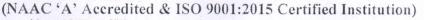
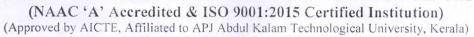


NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE







2.6.2 - Attainment of Programme outcomes and course outcomes are evaluated by the institution.

Sl.No	DESCRIPTION	PAGE No
1	CO-PO Mapping and Attainment	02
2	Series Test Question Papers with Bloom Taxonomy	17
3	Assignments	35

Department:	Department of	Electric	cal Engineering		
Programme:	B-TechElectri				
Course:	BASICS OF ELEC	CTRICAL	ENGINEERING		
University:	KTU	~	Course Code:	EST	Γ130
Semester:	2	~	Course Outcome Code:	ES	Г130
Course Type:	Core Theory	¥	Credits:	2	
Internal Marks:	25		University Marks:		50
Level 3 (% Hours):	40		Lecture Hours (L):	2	•
Level 2 (% Hours):	25		Tutorial Hours (T):	0	,
Level 1 (% Hours):	5		Practical Hours (P):	0	
EST130.1			e Outcomes ncepts and circuit laws to solve	e simple DC electi	ric circuit
EST130.2	Develop and so	lve mo	dels of magnetic circuits		1
EST130.3	Apply the funda	amenta	Il laws of electrical engineering	to solve simple a	ac circuits



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Nehru College of Engineering and Research Centre CO/Course - PO/PSO Mapping

Department:	Department of Electrical Engineering	
Programme:	B-TechElectrical Engineering	-
Course:	BASICS OF ELECTRICAL ENGINEERING	

Instructions for CO-PO Mapping

- 1. All the fields with RED title has to be filed.
 - CO PO/PSO Mapping table and CO PO/PSO Mapping (Hours) table entries are to be filled
- 2. Keep the fields BLANK if there is no entry
- 3. CO PO/PSO Mapping:
 - a. Enter all the POs and PSOs corresponding to each CO in the CO PO/PSO Mapping table
 - b. Enter the total number of hours for each CO in the CO PO/PSO Mapping table
- 4. CO-PO/PSO Mapping Entry: Choose the Mode of Entry Hours/ Level
- 4. CO-PO/PSO Mapping Entry
 - a. Enter the number of hours contributed/ Level to each PO/PSO corresponding to each CO in CO-PO/PSO Mapping Entry table
 - b. If Mode of entry is Hours, the total number of hours corresponding to each PO/PSO of each CO in CO-PO/PSO Mapping Entry table can be ZERO to Maximum No. of Hours for the corresponding CO and if Level is choosen enter 1,2 or 3 in the CO PO/PSO Mapping table
 - c. Keep the field BLANK if the PO/PSO entry correspong to the CO is not there in CO PO/PSO Mapping Entry table

Strength of mapping is defined at three levels:

Slight or Low (Level 1); Moderate or Medium (Level 2) and Substantial or high (Level 3)

Mapping Criteria: If Hours for CO-PO/PSO

> 40% : then PO/PSO is Level 3	25% - 40% : then PO/PSO is Level 2
5% - 25% : then PO/PSO is Level 1	< 5% then PO is considered not-addressed

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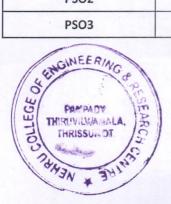
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Nehru College of Engineering and Research Centre CO/Course - PO/PSO Mapping Department: Department of Electrical Engineering Programme: B-Tech. -Electrical Engineering Course: BASICS OF ELECTRICAL ENGINEERING

CO - PO/PSO Mapping

Course Outcome	PO/ P:	SO Mapping	No of Hours
EST130.1	PO1,PO2,PO12,PSO1,		9
EST130.2	PO1, PO2, PO12,PSO1		8
EST130.3	PO1,PO2, PO12,PSO1		8
	Total No. of Hours		25
		PSO Mapping	
PO/PSO	No of Hours for PO	% of Hours for PO	LEVEL
PO1	25	100.00	3
PO2	4	16.00	1
PO3)	
PO4			
PO5			
PO6			
PO7			
PO8			
PO9			
PO10		·	
PO11		,	
PO12	7	28.00	2
PSO1	25	100.00	3
PSO2			
PSO3			



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Nehru College of Engineering and Research Centre CO/Course - PO/PSO Mapping

Department:	Department of Electrical Engineering	
Programme:	B-TechElectrical Engineering	
Course:	BASICS OF ELECTRICAL ENGINEERING	

CO- PO	/PSC) Ma	ppin	g Ent	try (Hour	s)	- 1	Vlod	e of l	Entry	/:	Hours		~
	PO1	PO2	РО3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO
EST130.1	9	2										3	9		
EST130.2	8	1										2	8		
EST130.3	8	1										2	8		



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Course Outcome- Attainment for EST130: Basics of Electrical Engineering, Academic Year: 2019-2020, Semester: 2

Internal Evaluation-1 (Test 1) Marks and Attainment

				Q1	Q	T	SCI / IVIGINS	T	T	T	П	T	T	1	T	
SI. No.	Roll No.	KTU ID	Student Name	15	10	+							+			_ Total (25)
				CO1	со	2										
1	1	20192912	ABHIRAM M	13	10	T										23
2	2	20203722	AKASH V	14	10											24
3	3	20193062	ASISH G K	14	10	T										24
4	4	20193484	ASWATHY A M	13	10	T										23
5	5	20191744	MIDHUN MADHAV	14	9	T										23
6	6	20191461	MIDHUN NATARAJAN	15	9	1										24
7	7	20193211	MUHAMMED BADHUSHA S	14	10											24
8	8	20191826	NIBIN R	14	9	1										2.3
. 9	9	20203930	RIDHUL R	14	10	1										24
10	10	20192882	SREERAG A	15	9	T										24
11	11	20192087	SREYA P M	13	10	T										23
12	12	20192564	S RIDHESH	14	10											24
13	13	20192963	SUBIN S	11	10	1				1						21

	Internal Evalua	ation-1 (Test 1)
со	No. of Questions	% Students CO Attainment	Test Wise Attainment Level
EST130.1	1	100.00	3
EST130.2	1	100.00	3
EST130.3	0		
	0		
	0		
	0		



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Course Outcome- Attainment for EST130: Basics of Electrical Engineering, Academic Year: 2019-2020, Semester: 2

Internal Evaluation-2 (Test 2) Marks and Attainment

				Q1	Q2											Total
SI. No.	Roll No.	KTU ID	Student Name	10	15											(25)
				CO2	CO3	3										
1	1	20192912	ABHIRAM M	8	12											20
2	2	20203722	AKASH V	10	12											22
3	3	20193062	ASISH G K	4	12											16
4	4	20193484	ASWATHY A M	10	11			-								21
5	5	20191744	MIDHUN MADHAV	7	12			-								19
6	6	20191461	MIDHUN NATARAJAN	9	13											22
7	7	20193211	MUHAMMED BADHUSHA S	8	12											20
8	8	20191826	NIBIN R	7	14					1						21
9	9	20203930	RIDHUL R	7	14											21
10	10	20192882	SRÉERAG A	6	10											16
11	11	20192087	SREYA P M	10	13											23
12	12	20192564	S RIDHESH	8	14											22
13	13	20192963	SUBIN S	9	13											22
										1						
						1										
			1													
									-							
	- 1										-		18			
			- w													

	1		
со	No. of Questions	% Students CO Attainment	Test Wise Attainment Level
EST130.1	0		
EST130.2	1	100.00	3
EST130.3	1	100.00	3
	0		
	0		
	0		





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Course Outcome- Attainment for EST130: Basics of Electrical Engineering, Academic Year: 2019-2020, Semester: 2

Internal Evaluation-3 (Assignment 1) Marks and Attainment

				Q1	Q2		Tota
SI. No.	Roll No.	KTU ID	Student Name	5	3		(10
				CO1	CO1		
1	1	20192912	ABHIRAM M	4.30	3.00		9.3
2	2	20203722	AKASH V	4.40	3.00		9.4
3	3	20193062	ASISH G K	2.00	0.50		2.5
4	4	20193484	ASWATHY A M	4.80	3.00		9.8
5	5	20191744	MIDHUN MADHAV	4.70	3.00		9.7
- 6	6	20191461	MIDHUN NATARAJAN	1.0	3.00		4.5
7	7	20193211	MUHAMMED BADHUSHA S	4.20	3.00		9.2
8	8	20191826	NIBIN R	4.50	3.00		9.5
9	9	20203930	RIDHUL R	1.00	1.00		2.9
10	10	20192882	SREERAG A	1.00	1.00		2.8
11	11	20192087	SREYA P M	4.30	3.00		9.3
12	12	20192564	S RIDHESH	3.80	3.00		8.8
13	13	20192963	SUBIN S	4.30	3.00		9.3

со	No. of Questions	% Students CO Attainment	Test Wise Attainment Level
EST130.1	2	76.92	2
EST130.2	1	84.62	3
EST130.3	0		
	0		
	0		
	0		



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Course Outcome- Attainment for EST130: Basics of Electrical Engineering, Academic Year: 2019-2020, Semester: 2

Internal Evaluation-4 (Assignment 2) Marks and Attainment

				Q1	Q2	Q3		
SI. No.	Roll No.	KTU ID	Student Name	3	2	5		(10)
				CO2	соз	соз		
1	1	20192912	ABHIRAM M	4.00	3.00	2.00		9
2	2	20203722	AKASH V	3.50	3.00	2.00		8.5
3	3	20193062	ASISH G K	3.00	3,00	2.00		8
4	4	20193484	ASWATHY A M	4.00	3.00	2.00		9
5	5	20191744	MIDHUN MADHAV	3.75	3.00	2.00		8.75
6	6	20191461	MIDHUN NATARAJAN	3.0	3.0	2.0		8
7	7	20193211	MUHAMMED BADHUSHA S	3.75	3.00	2.00		8.75
8	8	20191826	NIBIN R	4.00	3.00	2.00		9
9	9	20203930	RIDHUL R	3.75	3.00	2.00		8.75
10	10	20192882	SREERAG A	3.25	3.00	2.00		8.25
11	11	20192087	SREYA P M			2.00		9
12	. 12	20192564	S RIDHESH	4.00	3.00	2.00		9
13	13	20192963	SUBIN S	4,00	3,00	2.00		9
							1/2	
						260		

Inte	rnal Evaluation	n-4 (Assignmen	nt 2)
со	No. of Questions	% Students CO Attainment	Test Wise Attainment Level
EST130.1	0		
EST130.2	1	100.00	3
EST130.3	2	100.00	3
	0		
	0		
	0		



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Course Outcome- Attainment for EST130: Basics of Electrical Engineering, Academic Year: 2019-2020, Semester: 2

Final Evaluation/ University Examination Marks and Attainment

SI. No.	Roll No.	KTU ID	Student Name	Marks Entry	Total Mark (50)
1	1	20192912	ABHIRAM M	А	А
2	2	20203722	AKASH V	С	С
3	3	20193062	ASISH G K	F	25
4	4	20193484	ASWATHY A M	S	95
5	5	20191744	MIDHUN MADHAV	P	43
6	6	20191461	MIDHUN NATARAJAN	А	А
7	7	20193211	MUHAMMED BADHUSHA S	A+	A+
8	8	20191826	NIBIN R	F	25
9	9	20203930	RIDHUL R	Р	. 43
10	10	20192882	SREERAG A	F	25
11	11	20192087	SREYA P M	В	50
12	12	20192564	S RIDHESH	F	25
13	13	20192963	SUBIN S	F	25
		1			

Final Evaluation/ University Examination	
Threshold Marks (%)	40
Number of Students Appeared:	9
Number of Students Achieved the CO Attainment Threshold:	9
% of Students Achieved the CO Attainment Threshold:	100.00
CO Attainment Level:	.3

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THIRISSURO THIRISSURO THE CONTRACTOR THE CONTRACTOR

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Course Outcome- Attainment for EST130: Basics of Electrical Engineering, Academic Year: 2019-2020, Semester: 2

			S302		Wisc A	crage /	Attainm	Ciic			
Course			Intern	Overall	Final/	Overall CO					
Outcomes	Tes	t 1	Tes	t 2	Assign	ment 1	Assigni	ment 2	Internal Attainment	University Attainment	Attainment
	(%)	Level	(%)	Level	(%)	Level	(%)	Level	Level	Level	Level
EST130.1	100.00	3.00			76.92	2.00			2.50	3.00	2.65
EST130.2	100.00	3.00	100.00	3.00	84.62	3.00	100.00	3.00	3.00	3.00	3.00
EST130.3			100.00	3.00			100.00	3.00	3.00	3.00	3.00
									FALSE	Entropy to Green with	
									FALSE		
									FALSE		

Average Attainment:		2.83	3.00	2.88
	Course Attainment Level: 2.88			

Dr.Sobha Manakkal

Professor, Department of Electrical Engineering

Nehru College of Engineering and Research Centre

Calculation

Overall Internal Attainment Level = 0.25 * Test 1 Attainment Level + 0.25 * Test 2 Attainment Level + 0.25 * Assignment 1 Attainment Level + 0.25 * Assignment 2 Attainment Level

Overall CO Attainment Level = 0.7 * Overall Internal Attainment Level + 0.3 * Final/ University Attainment Level

	Targets	or Attainment Calcu	ualtion (% Marks)
EST130.1	EST130.2	EST130.3	Final/University
40	40	40	40

Attainmer	nt Levels (%	Student
Level 3	Level 2	Level 1
80	70	60

Course Outcomes

EST 130.1: Apply fundamental concepts and circuit laws to solve simple DC electric circuits

EST 130.2: Develop and solve models of magnetic circuits

A NEW THE

ental laws of electrical engineering to solve simple ac circuits in steady state

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KTU			Pro	gramm			Semes	ster: 2							
Course Cod	e: EST13(0		Cours	е Туре	: Core	Theory		(Credits:	2		L-T-P:	2-0-0	
			Co	urse Tit	le: BAS	ICS OF	ELECTR	ICAL EN	NGINEE	RING					
Assessment (Maximur	n Mark	s):	In	ternal:	25	L	Jnivers	ity/Fina	al Evalu	ation: 5	50	Т	otal: 75	5
					C	ourse	Outcor	nes							
EST130.1: Apply fu	ındament	al conc	epts an	d circui	it laws t	o solve	simple	DC ele	ctric cir	cuits					
EST130.2: Develop							to solve	e simple	e ac c irc	cuits in s	steady s	state			
					CO - PC	/PSO N	Ларріп	g (Leve	ls)						
со	PO1	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 F										PSO1	PSO2	PSO3	
EST130.1	3	1										2	3		
EST130.2	3	1										2	3		
EST130.3	3	1			-\-							2	3		
				Co	urse - I	PO/PSC	Марр	ing (Le	rels)						
Course	P01	PO2	РОЗ	PO4	PO5	PO6	P07	PO8	P09	PO10	PO11	PO12	PSO1	PSO2	P S O3
EST130	3	1										2	3		
		_				L				1			1		

Dr.Sobha Manakkal

Professor, Department of Electrical Engineering Nehru College of Engineering and Research Centre

			CO/C	Course	- PO/PS	O Atta	inment	Level -	Acade	mic Ye	ar: 2019	9-2020				
со	CO Att.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PS01	PSO2	PSO:
EST130.1	2.65	3	1										2	3		
EST130.2	3	3	1										2	3		
EST130.3	3	3	1										2	3		
Direc CO-PO/ Attainm	PSO	2.88	2.88				-						2.88	2.88		

Dr.Sobha Manakkal

Professor, Department of Electrical Engineering Nehru College of Engineering and Research Centre



1 Programme: COMPUTER SCIENCE ENGINEERING

Year & Sem IV & S8 Course Code & Name: CS 472

					SER	IES T	EST1		- 40				SERIE	TEST2					ASSI	SNMENT	TEST				
SI	Reg No	Name	C01	CO2	CO3	CO4	CO5	CO6	Total Mark (20)	CO1	CO2	CO3	CO4	CO5	CO6	Total Mark (50)	CO1	CO2	C03	CO4	CO5	CO6	Total Mark (60)	UNITA RANGE	UN
1	NCE18CS001	ABHIJITH K P	5	3	5				13				5	5	0	10	10	10	10	10	10	10	60		1
2	NCE18CS007	AISWARYA V NAIR	7	4	5				16				5	4	5	14	10	10	10	10	10	10	60	8.5	1
3	NCE18CS008	AJAY K S	5	6	3				14	1			4	3	7	14	10	10	10	10	10	10	60	8	E
4	NCE18CS009	AJITH KUMAR R	6	4	5				15				6	4	3	13	10	10	10	10	10	10	60	8	E
5	NCE18CS011	AKSHAY M	5	5	4				14				3	4	3	10	10	10	10	10	10	10	60	8	
6	NCE18CS016	ARYA R	5	5	5				15				3	6	5	14	10	10	10	10	10	10	60	8	
7	NCE18CS017	ASHA K	4	5	4				13				3	4	3	10	10	10	10	10	10	10	60	7	
8	NCE18CS020	ATHUL P	5	3	4				12				5	4	5	14	10	10	10	10	10	10	60	7	
9	NCE18CS025	JOHNLY K BABU	2	2	2				6				2	4	0	6	10	10	10	10	10	10	60	0	
10	NCE18CS026	KAVYA KALIDAS	2	1	0				3				4	3	3	10	10	10	10	10	10	10	60	0	
11	NCE18CS027	K PRAVEENA	7	5	4				16				5	6	4	15	10	10	10	10	10	10	60	8	
12	NCE18CS028	MAJEED I	0	2	0	1			2			1.0	5	3	3	. 11	10	10	10	10	10	10	60	0	
13	NC18CS035	NAVANEETH P	6	3	4	200			13				5	2	3	10	10	10	10	10	10	10	60.0	8	
14	NC18CS037	NITHYA P	4	5	5				14				4	4	4	12	10	10	10	10	10	10	60.0	7	
15	NC18CS038	RANJITH R	4	4	3				11				5	3	4	12	10	10	10	10	10	10	60.0	7	
16	NC18CS040	SANAL SALDEEN S	5	3	3				11				3	4	3	10	10	10	10	10	10	10	60.0	0	
17	NC18CS041	SANDRA N P	5	5	4	1			14			10000	5	6	3	14	10	10	10	10	10	10	60,0	9	
18	NC18CS042	SARANIA N	4	4	2				10				3	3	3	9	10	10	10	10	10	10	60.0	8.5	
19	NC18CS045	SNEHA V	4	5	5	6-			14				4	3	3	10	10	10	10	10	10	10	60.0	8.5	
20	NC18CS047	SREEDEVI C	5	5	3	130 X			13				4	2	4	10	10	10	10	10	10	10	60,0	8.5	
21	NC18CS048	SREELAKSHMI A	6	4	2				12	100		(1)020	3	4	3	10	10	10	10	10	10	10	60.0	6	
22	NC18CS049	SREERAM K	. 1	2	3				6	1			2	3	2	7	0.70							5	
23	NC18CS050	SULFI A	5	4	3				12				3	4	3	10	10	10	10	10	10	10	60,0	6	
24	NC18CS051	SWETHA RAJP	3	3	4				10	1141			4	2	4	10	10	10	10	10	10	10	60.0	8	
25	NC18CS052	THEJUS K J	2	3	2	1			7				3	2	5	10	10	10	10	10	10	10	60.0	7	
26	NC18CS053	THRISHAL G	5	4	3	1			12				4	3	4	11	10	10	10	10	10	10	60.0	8	
27	NC18CS054	VARGHESE PG	4	6	5				15				5	4	6	15	10	10	10	10	10	10	60.0	8	
28	NC18CS056	VARSHA PK	4	4	5	1			13				4	5	3	12	10	10	10	10	10	10	60,0	8	
29	NC18CS057	VIJITHRA R	5	3	6	1			14				3	3	3	9	10	10	10	10	10	10	60.0	7	
30	NC18CS058	VINAY KRISHNA K M	2	3	3	1			8				3	2	4	9	10	10	10	10	10	10	60,0	7	
31	NC18CS060	VISHNU MOHANAN	5	3	4	1			12				3	3	6	12	10	10	10	10	10		60.0	8	
32	NC18CS061	VISHNU M R	2	1					3				3	4	3	10	10	10	10	10	10		60,0	5	
		NO OF STUDENTS ATTEND	32	32	31	0	0	0	32	0	0	0	32	32	32	32	31	31	31	31	31	31	31	31	1
		MAX MARK CO WISE	8	8	8	0	0	0	20	0	0	0	8	8	8	20	10	10	10	10	10	10	60	10	
	THRESHOLD	50	4	4	4	0	0	0	10	0	0	0	4	4	4	10	5	5	5	5	5	5	30	6	
		CO/ No of students above three	24	18	17	0	0	0	25	0	0	0	18	17	14	27	31	31	31	31	31	31	31	25	
		LEVEL	3	1	1	0	0	0	3	0	0	0	1	1	1	3	3	3	3	3	3	3	3	2	1





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	RUBRICS
(LOW)	6 50% OF STUDENT ABOVE 60% - 1
(MEDIU	9 60% OF STUDENT ABOVE 60% - 2
(HIGH)	2 70% OF STUDENT ABOVE 60% - 3

C101	TEST1	TEST:	ASSC	INT	UNIV
CO1	3	0	3	3.00	3
CO2	1	0	3	2.00	3
CO3	1	0	3	2.00	3
CO4	0	1	3	2.00	3
CO5	0	3	3	3.00	3
CO6	0	1	3	2.00	3
INTER	NAL/U	NIV A	TTAI	2.33	3.00
WEIGH	HTAGE			30%	70%
CO AT	TAINT	0.70	2.10		
FINAL	CO AT	TAIN	TMN		2.80

							CO	Vs P	0						
						1	SUI	BJEC	T						
COURS E COUT	PO1	PO2	PO 3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C415.1	3	3	3	2	2	2		-				2	3	2	2
C415.2	3	3	3	2	2	2	-						3	2	
C415.3	2	3	3	2	2	2		-					3	2	
C415.4	2	2	2		2	2		2					3		
C415.5	2	2	2	2	2			2				3	3		
C415.6	2	2	2	2	2	2	-	2	1			3	3	2	
C415	2,33	2.5	2.5	2	2	2	0	2	0	0	0	2.66	3	2	2
TTAINN	2.17	2.33	2.33	1.87	1.87	1.87	0	###	0	0	0	2.48	2.80	1.87	1.87

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1 Programme: COMPUTER SCIENCE ENGINEERING Year & Sem IV & S7 Course Code & Name: CS463

100					SERIES 1	resti			1000			SERIE	ES TEST2					ASS	IGNMENT	TEST			
SI	Reg No	Name	COI	CO2	C03	CO4 C	O5 CO6	Total Mark (20)	C01	CO2	CO3	CO4	CO5	CO6	Total Mark (20)	CO1	CO2	CO3	CO4	CO5	CO6	Total Mark (60)	United Andrew
1	NCE18CS001	АВНІЛІТН К Р	6	4	4.8			14.8				0	6	4.8	10.8	10	10	9	10	9	10	58.0	
2	NCE18CS002	ABHIJITHLAL (7.2	6.4	2.4			16	1000			0	7.2	4.8	12	10	9	10	9	9	10	57.0	
3	NCE18CS003	ABHINAV C	6	4.8	4.8			15.6				3.2	4	6.4	13.6	8	8	10	8	8	8	50.0	
4	NCE18CS006	AISWARYA S N	6	2	4.8			12.8				0.8	6.8	5.2	12.8	9	9	10	10	10	8	56.0	
5	NCE18CS010	AKSHAYA S	2.8	6	4			12.8				0	4	4	8	10	10	10	9	9	9	57,0	
6	NCE18CS011	AKSHAY M	4	3.2	2.4			9,6				2	7.6	4	13.6	9	9	10	9	10	10	57.0	8
7	NCE18CS013	ANJALI E	6	2	2.4	7		10.4	97,00			3.2	6.4	0	9,6	10	10	10	8	9	8	55.0	
8	NCE18CS014	ANJU ANTO	5.6	4	6			15.6				0	4.8	7.6	12.4	9	10	10	9	9	9	56.0	
9	NCE18CS020	ATHUL P	6	- 4	5.2			15.2				5.2	6	2	13.2	10	9	9	10	10	9	57.0	
10	NCE18CS021	DURGA RAGHU	3.2	3.6	5.2			12				2.4	4.4	1.6	8.4	10	10	9	8	8	9	54.0	
11	NCE18CS022	GOPIKA	8	4	4	S Comme		16		5.000		2.8	7.2	5.2	15.2	10	10	10	10	10	10	60.0	8
12	NCE18CS024	JISNI JOHNSON	6	4	5.2			15.2		La MARIA		0.8	4.8	6,4	12	10	10	9	9	9	10	57.0	8
13	NCE18CS028	MAJEED I	4	4	4			12				5.2	3.6	4	12.8	10	10	10	10	9	10	59.0	(
14	NCE18CS030	MANASA K S	7.2	4.8	4			16		1/2016		2	6	6.8	14.8	9	9	10	10	10	10	58.0	8
15	NCE18CS032	MOHAMMED Y	1.2	0	3.2			4.4		District St		2.8	2	4.4	9.2	10	10	10	10	10	0	50.0	(
16	NCE18CS036	NITHA SHERIN	5.6	3.2	2.8			11.6				6	5.6	4	15.6	9	10	10	9	9	9	56.0	-
17	NCE18CS039	R. ANUSWARIA	8	2	6			16		10000		1.2	3.6	1.2	6	0	- 0	9	8	8	10	35.0	
18	NCE18CS040	SANAL SALDE	5.2	4	4.4			13.6		F (2) (3)		4	0	2.4	6.4	. 9	10	9	10	9	9	56.0	(
19	NCE18CS042	SARANIA N	6.8	2	5.6			14.4				3.4	4.8	0	8.2	9	10	10	8	9	8	54.0	
20	NCE18CS044	SNEHA S	7.2	4	4.8	100		16				2.4	4.8	7.2	14.4	9	10	10	8	8	9	54.0	8
21	NCE18CS045	SNEHA V	6	4	6	100		16	460			5.2	6	6	17.2	10	10	9	8	10	8	55.0	8
22	NCE18CS050	SULFI A	8	4	2.4	1000		14.4	100		- 1	0.8	5.6	5.2	11.6	10	0	0	10	10	10	40,0	
23	NCE18CS051	SWETHA RAJ P	8	3.2	3.6			14.8				2.4	6	2.8	11.2	10	10	10	9	9	9	57.0	(
24	NCE18CS052	THEJUS K J	4.8	3.6	3.6			12				0.8	0	3.2	4	10	10	10	9	9	9	57.0	(
25	NCE18CS053	THRISHAL G	6	3.2	6	1		15,2				4	3.6	3.6	11.2	10	9	10	8	8	7	52.0	7
26	NCE18CS057	VIJITHRA R	4.8	4	4.8			13.6			11	6	1.6	2.8	10.4	10	10	10	8	10	8	56.0	(
27	NCE18CS058	VINAY KRISHN	3.6	4	2.8	100		10.4				5.6	0.8	2	8.4	8	10	8	8	8	10	52.0	(
28	NCE18CS063	VISHNU T U	2.4	0	2.4			4.8				4	0	2	6	10	10	10	9	9	9	57.0	
144	LNCE18CS065	JAYESH K M	1.6	0	1.6							0	6	4.8	10.8	0	0	0	0	0	0	0.0	(
		100															- 50.0						
		NO OF STUDENT	29	29	29	0	0 0	28	0	0	0	29	29	29	29	29	29	29	29	29	29	28.0	28
		MAX MARK CO	8	8	8		0 0	20	0	0	0	8	8	8	20	10_	10	10	10	10	10	60	10
	THRESHOLD	50	- 4	4	4		0 0	10	0	0	0	4	4	4	10	5	5	5	5	5	5	30	6
		CO/ No of students	23	16	18	0	0 0	25	0	0	0	9	20	17	19	27	26	27	28	28	27	#REF!	21
		LEVEL	3	1	2	0	0 0	3	0	0	0	1	3	2	2	3	3	3	3	3	3	#REF!	3





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	RUBRICS
14	50% OF STUDENT ABOVE 60% - 1 (LOW)
17	60% OF STUDENT ABOVE 60% - 2 (MEDIUN
20	70% OF STUDENT ABOVE 60% - 3 (HIGH)

C101	TESTI	TEST2	SS	INT	UNIV
COI	3	0	3	3.00	3
CO2	1	0	3	2.00	3
CO3	2	0	3	2.50	3
CO4	0	1	3	2.00	3
CO5	0	3	3	3.00	3
CO6	0	3	3	3.00	3
INTERN	I AL/UNIV /	ATTAINM	ENT	###	3.00
WEIGHT	AGE			###	70%
CO ATT	AINTMEN	###	2.10		
FINAL C	O ATTAI		2.88		

FINAL CO	ALIAL	NIMINEI	LOW	1	2.0	10									
							_	COV	's PO						
								SUB.	JECT						
COURSE COUTCO ME	PO1	PO2	P 03	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C406.1	3	2	-						-		-		2	-	2
C406.2	3	-	3	3	2	-	-				-	-	2	2	3
C406.3	3	-	2	3	3	-			-		-	-	3	2	-
C406.4	3	2	3	3	2	-		-			-	-		2	3
C406.5	2	3	3	3	3	-	-	-	-	-	2	3	-	3	2
C406.6	2	2	3	3	3			-	-	-	3	3	- 11	2	3
C406	2.66	2.25	3	3	2.6						2.5	3	2.333333	2.2	2.6
ATTAINM	2.55	2.16	##	###	2 49	0	0	0	0	0	2.40	2.88	2.24	2 11	2.49

ARKS HAVE TO BE ENTERED AS PER KTU NORMS(0=10,A+=9,A=8.5,B+=8,B=7,C=6,P=0), HERE OUR THRESHOLD IS 60% SO HERE ABOVE 7=B ONLY CONSIDERED A

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Semester: S8	Programe: B. TECH	Max.Mark:50	Date:
Course Code & Name	e EE474 Energy	Duration: 2 Hours	SET: One
Management and A	uditing		
Knowledge Level	K1: Remembering	K3: Applying	K5: Evaluation
(KL)			
Course Outcome (COL)	K2: Understanding	K4: Analysing	K6: Creating
	Part A		
	Answer ALL	4x5=	20Marks

	TaltA	
	Answer ALL questions 4x5=20Ma	rks
1.	Explain different types of industrial loads and enumerating examples of each?	K2/CO1
2.	What is Optimal Load Scheduling? Explain	K2/CO1
3.	What is meant by loading of motor? Why does the efficiency of motor reduce when it operates at lower loading? List down any 2 steps to improve the operating efficiency of under-loaded motors	K3/CO2
4.	What are the energy management opportunities in lighting?	K1/CO3
	Part B	

	Answer ALL Questions 3x10=30M	arks	
5	Enumerate the peak demand control methodologies used in	K4/CO1	
	energy management planning		
	OR /		
	Define Energy Management. What are the objectives of energy	K2/CO1	
6	management? Also discuss the steps involved		
7	An energy audit was conducted in the draft fan motor of a	K5/CO2	
	boiler system. The motor is rated for 40 kW,415V, 80A, 0.89pf.		
	Using electrical power analyser, the operating values are found		
	to be 412V, 62A, 0.75 pf The energy audit team proposed to		
	replace the existing motor by a 30kW energy efficient motor		
	with 92% efficiency. a) Determine the rated efficiency and the		
	loading of the existing motor. b) Calculate the loading with		
	energy efficient motor c) Calculate kW saved by replacing the		

motor with new efficient motor. Consider motor efficiency to THE THE WILLA THRISSUNDT

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	remain constant between 52 –100 % loading								
	OR								
Explain in detail the losses in induction motors and list any 5									
8	energy management opportunities in electric motors. What are K3/CO2								
	the energy management opportunities in electrolytic processes?								
9	What is a boiler system? What are the major components of a K								
	boiler system?								
	OR								
10	What is meant by steam traps? Explain the operation of	K2/CO3							
	thermostatic steam trap.								

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Question paper quality assessment using Blooms taxonomy

RUBRICS

Blooms taxonomy Definitions	Scale
Remembering	. 1
Understanding	2
Applying	3
Analyzing	4
Evaluating	5
Creating	6

Questions to Blooms taxonomy mapping

Questio n Number	Mark s	Rememberin g	Understandin g	Applyin g	Analyzin g	Evaluatin g	Creatin g
1	5		1				
2	5		1				
3	5			1			
4	5	1		i.			
5	10				1		a Alayon
6	10		. 1				
7	10					1	
8	10			1		mit D2	
9	10		. 1				
10	10		. 1			,	



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Blooms taxonomy definitions	Scale	Marks	Rating (out of 6)
Remembering	1	5	nomik :
Understanding	2	40	
Applying	3	15	2.75
Analyzing	4	10	
Evaluating	5	10	
Creating	6	Tig.	E-10

CO MAPPING WITH QUESTIONS

COs	· T1	Т2	Т3	. A1	A2
C474.1	Q (1), Q (2), Q (5), Q (6)				
C474.2	Q (3), Q (7), Q (8)				
C474.3	Q (4), Q (9), Q (10)				
C474.4					
C474.5			,	/	
C474.6					

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SCRUTINY COMMITTEE MEMBER

SCRUTINY COMMITTEE CHAIRMAN

REARKS! EQUAR	WEIGHTAGE	FOR ALL	modules Fo	IND TO BE	
SENGINEER UNSA	TUAGO.			PART OF STREET	
a. (0)	CICINE U	WHAT, WA	17, when, a	THERE AS WE	
THRISSEL A	folion!	B COOM?		PRINCIPAL Nehru College of Dineering and Research	

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SERIES TEST - I

Semester: S8 Programe: B. TECH			Max.Mark:50	Date	:
	e Code & Name	EE474 Energy aditing	Duration: 2 Hours	SET	: Two
Kno	wledge Level (KL)	K1: Remembering	K3: Applying	K5:	Evaluation
Cou	(COL)				Creating
		Part A Answer ALL		20Ma	ırks
1.	Define Energy	y Management and list is			K2/CO1
2.	Explain diffe examples of e	rent types of industria ach?	l loads and enumer	ating	K3/CO1
3.	Explain in de	tail the losses in induct gement opportunities in e		any 5	K4/CO2
4.		any five methods in a furnace and steam s		ation	K3/CO3
		Part E	3		
		American ATT O	vestions 2-10	-201/	aulta
5	What are the Explain.	Answer ALL Q main steps in the energy OR			

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1381	component charges? Find the kVAR required to improve the power factor from 0.95 to unity?	
7	Explain the energy management opportunities in electric	K2/CO2
	heating systems.	
	OR	
8	Explain how standards and labelling scheme introduced by BEE	K4/CO2
	is helpful as a demand side management strategy.	
9	What are the two sources of feed water in a boiler system?	K3/CO3
	What is the need for feed water treatment?	
	OR	
10	What is meant by waste heat recovery? What are the direct and	K2/CO3
	indirect benefits of waste heat recovery?	



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RUBRICS

Blooms taxonomy Definitions	Scale			
Remembering	1			
Understanding	2			
Applying	3			
Analyzing	4			
Evaluating	5			
Creating	6			

Questions to Blooms taxonomy mapping

Questio n Number	Mark s	Rememberin g	Understandin g	Applyin g	Analyzin g	Evaluatin g	Creatin g
1	5		√ √			(8)	
2	5			1			
3	5				1 1		
4	5			1	- 1		
5	10		1				
6	10				1	1	
7	10		1				*
8	10			Set a set	1		
9	10			1			
10	10		1				



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Blooms taxonomy definitions	Scale	Marks	Rating (out of 6)
Remembering	1		
Understanding	2	35	3.03
Applying	3	20	3.0
Analyzing	4	15	
Evaluating	5	10	
Creating	6		

CO MAPPING WITH QUESTIONS

COs	T1	T2	Т3	A1	A2
C474.1	Q (1), Q (2), Q (5), Q (6)	ă.			
C474.2	Q (3), Q (7), Q (8)				
C474.3	Q (4), Q (9), Q (10)			, .	
C474.4					
C474.5				1	
C474.6					

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SCRUTINY COMMITTEE MEMBER

SCRUTINY COMMITTEE CHAIRMAN

REMARKS!

(1) Equal weightage for all modules found to be consolisties.

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SERIES TEST - I

Semes	ter: 8	Progr	rame: B.TECH ECE	Max.Mark: 50	Date:	Date:	
Course		Name	EC 402 NANO	Duration: 2 Hours	SET : C	ONE	
Knov	wledge L (KL)	evel	K1: Remembering	K3:Applying	K5: Ev	5: Evaluating	
	Course Outcome K2: Understanding K4: Analysing K6: Creating Level(COL)			eating			
		(4	PART				
CLN		(A	nswer ALL Question			WI ICOX	
Sl.No	71	.1 .	Question			KL/COI	
1	llustrate	the imp	pact of nanotechnology or	n electronics		K4/CO1	
2 Describe parabolic quantum well.				K2/CO2			
3 Differentiate between evaporation and sputtering				K3/CO2			
4 Compare optical microscope and Electron Microscope				K3/CO2			
5	Explain 1		PART nswer ALL Questions rent characteristic lengths	$3 \times 10 = 30 \text{ Marks}$		K2/C01	
3			OR			112/001	
6	Explain t	he class	ification of nanostructures	according to the dimens	ionality	K2/C01	
7	Explain the different phases of Epitaxy. Explain the molecular beam epitaxy				K2/CO2		
			OR				
List out the methods used for the fabrication of nano particles. Explain any one methods				. Explain	K2/CO2		
9				K2/CO3			
			OR				
Explain the working of XRD analyzer and how it can be used to analyze a crystal.					K4/C03		



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Question paper quality assessment using Blooms taxonomy

RUBRICS

Blooms taxonomy Definitions		Scale
Remembering		1
Understanding		2
Applying	:	3
Analyzing		4
Evaluating		. 5
Creating		6

Questions to Blooms taxonomy mapping

Question Number	Marks	Remembering	Understanding	Applying	Analyzing	Evaluating	Creating
1	5				*		
2	5		1				
3 .	5			1			
4	5			1			
5	10		1	•		1	

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6	10		✓			
7	10		✓	a Committee		
8	10		✓			
9	10	•	√		J1 20/01	
10	10				/	

EVALUATION OF QUALITY OF QUESTION PAPER USING BLOOMS TAXONOMY

Blooms taxonomy definitions	Scale	Marks	Rating (out of 6)
Remembering	1	8.00	
Understanding	2	55	
Applying	3	10	2.5
Analyzing	4	15	
Evaluating	5		/
Creating	6		

CO MAPPING WITH QUESTIONS

COs	Т1	Т2	ТЗ	A1	A2
E402.1	Q1 (5), Q2 (5), Q5 (10), Q6 (10)				

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E402.2	Q3 (5), Q2 (5), Q4 (5), Q7 (10), Q8 (10)		
E402.3	Q4 (5), Q9 (10), Q10 (10)		
E402.4			
E402.5			
E402.6			

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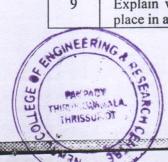
SERIES TEST - I

			ANSWER	KEY		
Semes	ter: 8	Prog	rame: B.TECH ECE	Max.Mark: 50	Date:	
Course		Name	: EC 402 NANO	Duration: 2 Hours	SET:	ONE
Kno	wledge L (KL)	evel	K1: Remembering	K3:Applying	K5: Ev	aluating
	rse Outco evel(COL		K2: Understanding	K4: Analysing	K6: Cr	eating
		(A	PART Answer ALL Question			
Sl.No			Question	ıs		KL/COL
1	Ilustrate		pact of nanotechnology of	n electronics		K4/C01

Sl.No	Questions	KL/COL
1	Illustrate the impact of nanotechnology on electronics 10 POINTS:5 MARKS	K4/C01
2	Describe parabolic quantum well. Figure :2 marks,Explanation :3 marks	K2/CO2
3	Differentiate between evaporation and sputtering 8 points:5 marks	K3/CO2
4	Compare optical microscope and Electron Microscope 10 points:5 marks	K3/CO2

PART B

	(Answer ALL Questions $3 \times 10 = 30 \text{ Marks}$)	
5	Explain the different characteristic lengths in mesoscopic systems. 5 mesoscopic system:explanation with equation:10 marks	K2/CO1
	OR	
6	Explain the classification of nanostructures according to the dimensionality Explanation with figure;3+7 marks	K2/CO1
7	Explain the different phases of Epitaxy. Explain the molecular beam epitaxy Epitaxy different methods:with neat figure:3+7marks	K2/CO2
	OR	
8	List out the methods used for the fabrication of nano particles. Explain any one methods 2 methods explain with neat figure:5+5 marks	K2/CO2
9	Explain with neat diagram different types of specimen interactions taking place in a sample during SEM	K2/CO3



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Engineering and Research Centre
Pampady, Thiruvilwamala, Thrissur Dt.
Pin -680 597, Kerala



NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE



(NAAC Accredited)
(Approved by AICTE, Affiliated to APJ Abdul Kalam Technological University, Kerala)
SERIES TEST - I

Semeste	er: VIII	Programme: BTech ECE	Max.Marks: 50	Date:	
	Code & Name: ECUNICATION SY	C404 ADVANCED STEM	Duration: 120 min	SET:2	
Knowle	edge Level (KL)	K1: Remembering	K3:Applying	K6:Creatin	ng
	Outcome (COL)	K2: Understanding	K4: Analyzing	K5:Evalua	ntion
Part – A,	Ans	wer All Questions.	5X4= 20 Marks		
S.No		Questio	ons		KL/COL
1	Describe frequen	cy modulated microwave	radio system with suitab	le diagram.	K2/C01
2	Give a brief description on free space path loss, determine the path loss for 3.5 GHz signal propagating 20,000m.				
3 .	Compare hot sta microwave radio	and by and diversity prosystem.	otection switching arrang	ement of a	K5/CO2
4	Describe the effect	ct of non spherical shape o	f earth on a satellite orbit.		K1/CO3
5		Answer all Questions. owave radio repeater station)= 30 Marks	K2/C01
6	011	ive communication system			K2/CO1
7	Discuss DCT and	JPEG.			K2/CO2
8		sion of moving pictures(M	PEG)		K2/CO2
9	Explain with the OR	block diagram transponder	r system.		K2/CO3
10	bandwidth of 36 station of 22dB.	Required, a satellite TV sign MHz and it must provide a Given that the total transmustation G/T ratio is 31db/K	a C/N ratio at the destination ission loss is 210 db and the	on earth	K4/C03



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Question paper quality assessment using Blooms taxonomy

RUBRICS

Blooms taxonomy Definitions	Scale
Remembering	1
Understanding	2
Applying	3
Analyzing	4
Evaluating	5
Creating	6

Questions to Blooms taxonomy mapping

Question Number	Marks	Remembering	Understanding	Applying	Analyzing	Evaluating	Creating
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EVALUATION OF QUALITY OF QUESTION PAPER USING BLOOMS TAXONOMY

Blooms taxonomy definitions	Scale	Marks	Rating (out of 6)
Remembering	1	5	
Understanding	2	60	
Applying	3		2.37
Analyzing	4	10	2.57
Evaluating	5	5	
Creating	6		

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CO MAPPING WITH QUESTIONS

T1	Т2	Т3	A1	A2
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.. APPROVED BY

MODULE CO-ORDINATOR

SCRUTINGOMMITTEE

Chairman

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