

*You Choose, We Do It*

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
(An Autonomous Institution)



*We Make You Shine*

**St. JOSEPH'S INSTITUTE OF TECHNOLOGY**

St. Joseph's Group of Institutions

Jeppiaar Educational Trust

OMR, CHENNAI - 600 119



**SUMMARY OF CLASS WORK**  
RECORD OF ATTENDANCE AND ASSESSMENT



Name of the Staff: N. Jayaprakash, (Ph.D.)

Department of the Staff: EE

Semester From: 1st

To: June '22

Class & Branch: III

916 15 100 'A' ECE

Code No. / Subject Name: EEEN6002

DEA



EE8002 DESIGN OF ELECTRICAL APPARATUS  
SYLLABUS

L T P C  
3 0 0 3

OBJECTIVES:

- To impart knowledge about the following topics:
- Magnetic circuit parameters and thermal rating of various types of electrical machines.
- Armature and field systems for D.C. machines.
- Core, yoke, windings and cooling systems of transformers.
- Design of stator and rotor of induction machines and synchronous machines.
- The importance of computer aided design method.

UNIT I DESIGN OF FIELD SYSTEM AND ARMATURE

Major considerations in Electrical Machine Design – Materials for Electrical apparatus – Design of Magnetic circuits – Magnetising current – Flux leakage – Leakage in Armature. Design of lap winding and wave winding. 9

UNIT II DESIGN OF TRANSFORMERS

Construction – KVA output for single and three phase transformers – Overall dimensions – design of yoke, core and winding for core and shell type transformers – Elimination of No load current – Temperature rise in Transformers – Design of Tank and cooling tubes of Transformers. Computer program: Complete Design of single phase core transformer 9

UNIT III DESIGN OF DC MACHINES

Construction - Output Equations – Main Dimensions – Choice of specific loadings – Selection of number of poles – Design of Armature – Design of commutator and brushes – design of field Computer program: Design of Armature main dimensions 9

UNIT IV DESIGN OF INDUCTION MOTORS

Construction - Output equation of Induction motor – Main dimensions – choice of specific loadings – Design of squirrel cage rotor and wound rotor –Magnetic leakage calculations – Operating characteristics : Magnetizing current - Short circuit current – Circle diagram - Computer program: Design of slip-ring rotor 9

UNIT V DESIGN OF SYNCHRONOUS MACHINES

Output equations – choice of specific loadings – Design of salient pole machines – Short circuit ratio – Armature design – Estimation of air gap length – Design of rotor –Design of damper winding – Determination of full load field MMF – Design of field winding – Design of turbo alternators -Computer program: Design of Stator main dimensions-Brushless DC Machines 9

TOTAL : 45 PERIODS

1. Sawhney, A.K., 'A Course in Electrical Machine Design', Dhansraj Rajwade Sons, New Delhi, Fifth Edition, 1984.
2. M V Deshpande 'Design and Testing of Electrical Machines' PHI Learning Pvt Lt, 2011. 3. Sen, S.K., 'Principles of Electrical Machine Designs with Computer Programmes', Oxford and IBH Publishing Co. Pvt. Ltd., New Delhi, Second Edition, 2009.



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OMR, CHENNAI - 600 119

**SUMMARY OF CLASS WORK**  
RECORD OF ATTENDANCE AND ASSESSMENT

Name of the Staff: N. Jeyaparakash. (Ph.D)  
Department of the Staff: EEE  
Semester From: Feb '22 To: June '22  
Class & Branch: III year EEE 'A' section  
Code No./ Subject Name: EE8002 - Design of Electrical Apparatus

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OMR, CHENNAI - 600 119



**EE8002 DESIGN OF ELECTRICAL APPARATUS**  
SYLLABUS

L T P C  
3 0 0 3

**OBJECTIVES:**

- To impart knowledge about the following topics:
- Magnetic circuit parameters and thermal rating of various types of electrical machines.
  - Armature and field systems for D.C. machines.
  - Core, yoke, windings and cooling systems of transformers.
  - Design of stator and rotor of induction machines and synchronous machines.
  - The importance of computer aided design method.

**UNIT I DESIGN OF FIELD SYSTEM AND ARMATURE**

Major considerations in Electrical Machine Design – Materials for Electrical apparatus – Design of Magnetic circuits – Magnetising current – Flux leakage – Leakage in Armature. Design of lap winding and wave winding. **9**

**UNIT II DESIGN OF TRANSFORMERS**

Construction - KVA output for single and three phase transformers – Overall dimensions – design of yoke, core and winding for core and shell type transformers – Estimation of No load current – Temperature rise in Transformers – Design of Tank and cooling tubes of Transformers. Computer program: Complete Design of single phase core transformer **9**

**UNIT III DESIGN OF DC MACHINES**

Construction - Output Equations – Main Dimensions – Choice of specific loadings – Selection of number of poles – Design of Armature – Design of commutator and brushes – design of field Computer program: Design of Armature main dimensions **9**

**UNIT IV DESIGN OF INDUCTION MOTORS**

Construction - Output equation of Induction motor – Main dimensions – choice of specific loadings – Design of squirrel cage rotor and wound rotor –Magnetic leakage calculations – Operating characteristics : Magnetizing current - Short circuit current - Circle diagram - Computer program: Design of slip-ring rotor **9**

**UNIT V DESIGN OF SYNCHRONOUS MACHINES**

Output equations – choice of specific loadings – Design of salient pole machines – Short circuit ratio – Armature design – Estimation of air gap length – Design of rotor – Design of damper winding – Determination of full load field MMF – Design of field winding – Design of turbo alternators -Computer program: Design of Stator main dimensions-Brushless DC Machines **9**

**TOTAL : 45 PERIODS**

1. Sawhney, A.K., 'A Course in Electrical Machine Design', Dhanpat Rai& Sons, New Delhi, Fifth Edition, 1984.  
2. M V Debnadke 'Design and Testing of Electrical Machines' PHI learning Pvt Lt. 2011. 3. Sen, S.K., 'Principles of Electrical Machine Designs with Computer Programmes', Oxford and IBH Publishing Co. Pvt. Ltd., New Delhi, Second Edition, 2009.

**SUMMARY OF CLASS WORK**  
RECORD OF ATTENDANCE AND ASSESSMENT

Name of the Staff: N. Tejayaparakash. (Ph.D)  
Department of the Staff: EEE  
Semester From: Feb '22 to June '22  
Class & Branch: III year EEE 'A' section  
Code No. / Subject Name: EE8002 - Design of Electrical Apparatus



## TIME TABLE

Period / Day	1	2	3	4	5	6	7	8	9	10
Monday										
Tuesday										
Wednesday										
Thursday										
Friday										

## LESSON PLAN

### UNIT I: DESIGN OF FIELD SYSTEM AND ARMATURE

Target Period: 12

Planned Periods: 14

S.No.	Topics to be Covered	Course Outcome	Knowledge Level	Hrs Req.	Text /Reference Book	Teaching Aid
1.	Design of machines -major considerations -design factors - limitations in design	C3131	R & U	1	T1 & R2	Power Point Presentation
2.	Electrical engineering materials- Electrical Conducting materials-requirements -characteristics -copper & aluminium-iron and steel- alloys of copper-materials of high resistivity	C3131	R & U	1	T1,R2&R3	Power Point Presentation
3.	Magnetic materials-soft & hard-hysteresis loop-ageing- dynamo grade steel- transformer grade steel-high resistance steel-cores and Insulating materials -electrical properties-classification of Insulating materials-application of insulating materials	C3131	R, U, An	1	T1, R2 & R3	Power Point Presentation & Black Board
4.	Total loadings-specific electric and magnetic loadings- choice of specific magnetic & electric loadings	C3131	R,U, An, A	1	T1, R2 & R3	Power Point Presentation
5.	Magnetic circuit Calculations-Calculation of mmf-airgap-smooth and slotted armature-fringing-Carter's gap coefficient	C3131	R,U, An, A	2	T1, R2 & R3	Power Point Presentation & Black Board
6.	Gap contraction factor for slots and ducts-effect of saliency- field form factor-net length of Iron-mmf for teeth	C3131	R, U, An	1	T1, R2 & R3	Black Board
7.	Real and apparent flux densities	C3131	R,U, An, A	2	T1& R3	Black Board
8.	Magnetic leakage calculations-specific permeance-leakage reactance-various leakage fluxes	C3131	R, U, An	1	T1& R3	Black Board
9.	Design and Analysis of Lap winding	C3131	R,U, An, A	2	T1& R3	Black Board
10.	Design and Analysis of Wave winding	C3131	R,U, An, A	2	T1& R3	Black Board
11.	Assignment					Date 30/3/2022
12.	Seminar Tutorial					Date 29/3/2022
13.	Internal Assessment Exam - I					Date 31/3/2022

## LESSON PLAN

### UNIT II: DESIGN OF TRANSFORMERS

Target Period: 12

Planned Periods: 14

S.No	Topics to be Covered	Course Outcome	Knowledge Level	Hrs Req.	Text /Reference Book	Teaching Aid
1.	Constructional details-emf equation-core/Shell type-single/three phase-distribution/power transformer-tappings and tap changing-bushings-transformer oil-conservator and breather-Hucholz relay	C313.2	R, U, A, An	2	T1,R3& R4	Power Point Presentation
2.	Design-output equation-single phase-three phase-volt per turn-optimum designs-variation of output and losses of transformer with linear dimensions	C313.2	R, U, A, An	1	T1& R4	Power Point Presentation & Black Board
3.	Design of core-rectangular -square core-stepped core-core area-window space factor-window dimensions-Overall dimensions	C313.2	R, U, A, An	1	T1,R3& R4	Power Point Presentation
4.	Tutorial - I	C313.2	R, A, An	1	T1,R1& R4	Black Board
5.	Design of shell type Transformer-Problems	C313.2	R, U, A, An	1	T1& R4	Power Point Presentation
6.	Operating characteristics- Leakage reactance of transformer	C313.2	R, U, A, An	2	T1& R4	Power Point Presentation
7.	Regulation of transformer-No load current-magnetizing Volt-ampere & Tutorial - II	C313.2	R, A, An	1	T1& R4	Black Board
8.	Temperature rise of transformer-Design of tank with tubes- cooling of transformer	C313.2	R, U, A, An	1	T1& R4	Power Point Presentation
9.	Tutorial - III	C313.2	R, U, A, An	2	T1& R4	Power Point Presentation
10.	Assignment	Date: 20/4/2022				
11.	Seminar/ Tutorial	Date: 20/4/2022				
12.	Internal Assessment Exam - II	Date: 21/4/2022				

## LESSON PLAN

### UNIT-III-DESIGN OF DC MACHINES

Target Period: 12

Planned Periods: 13

S.No	Topics to be Covered	Course Outcome	Knowledge Level	Hrs Req.	Text /Reference Book	Teaching Aid
1.	Constructional details-relation between rating and dimensions of rotating machines-Main dimensions-Output equation of D.C. machines-output co-efficient	C313.3	R, U, A, An	2	T1 & R3	Power Point Presentation
2.	Tutorial - I	C313.3	R, U, A, An	1	T1, T2 & R4	Power Point Presentation & Black Board
3.	Selection of Number of Poles-guiding factor for choice of number of poles-core length-pole proportions-pole face profile- Separation of D and I, for D.C. Machines	C313.3	R, U, A, An	1	T1 & R4	Power Point Presentation & Black Board
4.	Tutorial - II	C313.3	R, A, An	1	T1 & R1	Black Board
5.	Factors affecting size of Electric Machines- Choice of specific Magnetic Loading-Choice of Specific electric loadings	C313.3	R, U, A, An	2	T1, R3 & R4	Power Point Presentation
6.	Armature design-Choice of armature winding- No of armature conductors-armature coils-guiding factors for choice of No of armature slots-slot dimensions	C313.3	R, U, A, An	1	T1, R3 & R4	Power Point Presentation
7.	design of field winding Tutorial - III	C313.3	R, U, A, An	2	T1, R1 & R4	Power Point Presentation & Black Board
8.	Design of Commutator No of segments- Commutator diameter- Design of brushes-dimensions of brushes	C313.3	R, U, A, An	2	T1 & R4	Power Point Presentation
9.	Develop a Code for design of armature main dimensions and verify its results	C313.3	R, A, An	1	T1& R1	Black Board
10.	Assignment	Date: 10/5/22				
11.	Seminar/ Tutorial/ Class Test	Date: 10/5/22				
12.	Internal Assessment Exam - III	Date: 12/5/22				

## LESSON PLAN

### UNIT- IV DESIGN OF INDUCTION MOTORS

Target Period: 12

Planned Periods: 15

S.No	Topics to be Covered	Course Outcome	Knowledge Level	Hrs Req.	Text /Reference Book	Teaching Aid
1.	Three phase induction motors-review-comparison of SR & SC Induction motor-Output equation-choice of average flux density and ampere conductors	C313.4	R, U, A, An	1	T1, R3 & R4	Power Point Presentation
2.	Efficiency and PF-Main dimensions-turns per phase-Number of stator slots-area of stator slots-limitations	C313.4	R, U, A, An	1	T1& R3	Power Point Presentation
3.	Rotor design-length of air gap-relations for calculation of length of airgap	C313.4	R, U, A, An	1	T1, R3 & R4	Black Board
4.	Tutorial - I	C313.4	R, A, An	1	T1, R1 & R4	Black Board
5.	Design of squirrel cage rotor-number of slots-crawling- cogging-rule for selecting rotor slots-problems	C313.4	R, U, A, An	1	T1, R3 & R4	Power Point Presentation
6.	Design of rotor bars and slots-rotor bar current-area of rotor bars-shape and size of rotor slots-design of end rings-end ring current-area of end ring-problems	C313.4	R, U, A, An	2	T1& R4	Power Point Presentation
7.	Design of wound rotors-number of rotor slots-number of rotor turns-area of rotor conductors-problems.	C313.4	R, U, A, An	2	T1 & R4	Power Point Presentation
8.	Tutorial - II	C313.4	R, A, An	1	T1 & R4	Black Board
9.	Operating characteristics-No load current-problems-short circuit current-stator resistance-rotor resistance-problem, Dispersion co-efficient and its effects-Short Circuit Ratio-D and L for best power factor-problems.	C313.4	R, U, A, An	1	T1, R3 & R4	Power Point Presentation
10.	Tutorial-III	C313.4	R, U, A, An	1	T1, R3 & R4	Power Point Presentation

## LESSON PLAN

### UNIT V: DESIGN OF SYNCHRONOUS MACHINES

Target Period: 12

Planned Periods: 14

S.No	Topics to be Covered	Course Outcome	Knowledge Level	Hrs Req.	Text /Reference Book	Teaching Aid
1.	Type of construction-revolving field-advantages-salient pole, cylindrical rotor-types of synchronous machines-	C313.5	R, U, An	1	T1, R2 & R4	Power Point Presentation
2.	prime movers for synchronous generators-run away speed- Damper winding-Construction of Turbo alternators	C313.5	R, U	2	T1, R3 & R4	Power Point Presentation
3.	Design-output equation-choice of specific magnetic, electric loading-design of salient pole machines-main dimensions-	C313.5	R, U, A, An	1	T1& R4	Power Point Presentation
4.	Tutorial-I	C313.5	R, A, An	1	T1, R1 & R4	Black Board
5.	Short circuit ratio-effect of SCR on machine performance- length of air gap-shape of pole face-Number of armature slots-coil span-turns per phase-conductor section	C313.5	R, U, A, An	1	T1, T2, R2 & R4	Power Point Presentation
6.	shape of pole face-Number of armature slots-coil span-turns per phase-conductor section	C313.5	R, U, A, An	2	T1, R2 & R4	Power Point Presentation
7.	Slot dimensions-length of mean turn-elimination of harmonics-problem	C313.5	R, U, A, An	1	T1& R4	Power Point Presentation & Black Board
8.	Design of damper winding-problem-height of pole-determination of full load field mmf-design of field winding	C313.5	R, U, A, An	1	T1, T2 & R4	Power Point Presentation
9.	Design of damper winding-problem-height of pole-determination of full load field mmf-design of field winding	C313.5	R, U, A, An	1	T1	Power Point Presentation

STAFF SIGNATURE

HOD SIGNATURE

PRINCIPAL



## DAILY RECORD OF CLASS WORK

Month & Year :

Date*	Day	Allotted Period	Period Handled	Reason for Alteration
	Monday			
	Tuesday			
23/02/2022	Wednesday	4.5	4.5	
24/02/2022	Thursday	1.9	1.9	
25/02/2022	Friday	2	2	
26/02/2022	Saturday	3	3	
28/02/2022	Monday	3	3	
29/03/2022	Tuesday	-	-	
02/03/2022	Wednesday	4.5	4.5	
03/03/2022	Thursday	1.9	1.9	
04/03/2022	Friday	2	2	
05/03/2022	Saturday	3	3	
07/03/2022	Monday	3	-	} placement training
08/03/2022	Tuesday	-	-	
09/03/2022	Wednesday	4.5	-	
10/03/2022	Thursday	1.9	1.9	
11/03/2022	Friday	2	2	
12/03/2022	Saturday	3	3	

14/03/2022	Monday	2	2	
15/03/2022	Tuesday	-	-	
16/03/2022	Wednesday	4.5	4.5	
17/03/2022	Thursday	1.9	1.9	
18/03/2022	Friday	2	3	IAE duty, so 2 <sup>nd</sup> & 3 <sup>rd</sup> in Exchange
19/03/2022	Saturday	3	3	
21/03/2022	Monday	2	2	
22/03/2022	Tuesday	-	-	
23/03/2022	Wednesday	4.5	4.5	
24/03/2022	Thursday	1.9	1.9	
25/03/2022	Friday	2	2	
26/03/2022	Saturday	3	3	
28/03/2022	Monday	2	-	IAE-I
29/03/2022	Tuesday	-	-	
30/03/2022	Wednesday	4.5	4.5	
31/03/2022	Thursday	1.9	1.9	IAE-I
01/04/2022	Friday	2	-	IAE-I
02/04/2022	Saturday	3	3	

\* Holidays / CL and OD days to be mentioned against the corresponding dates

Signature of HOD :

Month & Year : Apr 2022

### DAILY RECORD OF CLASS WORK

Date*	Day	Allotted Period	Period Handled	Reason for Alteration
4/4/2022	Monday	2	2	
5/4/2022	Tuesday	-	-	
6/4/2022	Wednesday	4.5	4	5th placement Training
7/4/2022	Thursday	1.9	9	} Placement Training - II
8/4/2022	Friday	2	-	
9/4/2022	Saturday	3	-	
10/4/2022	Monday	2	2	
12/4/2022	Tuesday	-	-	
13/4/2022	Wednesday	4.5	4.5	} TAMIL NEW YEAR & Grand Festing Laurite
14/4/2022	Thursday	1.9	1.9	
15/4/2022	Friday	2	-	
17/4/2022	Saturday	3	-	
18/4/2022	Monday	2	-	IAE - II
19/4/2022	Tuesday	-	-	
20/4/2022	Wednesday	4.5	4.5	
21/4/2022	Thursday	1.9	9	IAE - II
22/4/2022	Friday	2	-	IAE - II
23/4/2022	Saturday	3	-	Students went to Guest Lecture

25/4/2022	Monday	2	2	
26/4/2022	Tuesday	-	-	
27/4/2022	Wednesday	4.5	4.5	IV
28/4/2022	Thursday	1.9	1.9	
29/4/2022	Friday	2	2	
30/4/2022	Saturday	3	-	Sports Day
2/5/2022	Monday	2	-	} College Leave
3/5/2022	Tuesday	-	-	
4/5/2022	Wednesday	4.5	4.5	
5/5/2022	Thursday	1.9	1.9	
6/5/2022	Friday	2	-	Students went to Sports festival
7/5/2022	Saturday	3	-	Students went to placement
9/5/2022	Monday	2	-	IAE - III
10/5/2022	Tuesday	-	3, 9, 10	Ms SP Vedaralli mam leave For Syllabus Coverage Seminar for C/O
11/5/2022	Wednesday	4.5	4.5	
12/5/2022	Thursday	1.9	1.9	IAE - III
13/5/2022	Friday	2	-	IAE - III
14/5/2022	Saturday	3	3	

\* Holidays / CL and OD days to be mentioned against the corresponding dates

Signature of HOD :

16/5



## DAILY RECORD OF CLASS WORK

Month & Year: May 2022

Date*	Day	Allotted Period	Period Handled	Reason for Alteration
16/5/2022	Monday	2	-	Students went to placement
17/5/2022	Tuesday	-	-	
18/5/2022	Wednesday	4:15	4:15	
19/5/2022	Thursday	1:9	1:9	
20/5/2022	Friday	2	2	
21/5/2022	Saturday	3	3	
22/5/2022	Monday	2	2	
24/5/2022	Tuesday	-	-	
25/5/2022	Wednesday	4:15	4:15	
26/5/2022	Thursday	1:9	1:9	DAE-4
27/5/2022	Friday	2	2	DAE-4
28/5/2022	Saturday	3	3	
30/5/2022	Monday	2	2	
31/5/2022	Tuesday	-	-	
1/6/2022	Wednesday	4:15	4:15	
2/6/2022	Thursday	1:9	1:9	
3/6/2022	Friday	2	2	
4/6/2022	Saturday	3	3	

	Monday			
	Tuesday			
	Wednesday			
	Thursday			
	Friday			
	Saturday			
	Monday			
	Tuesday			
	Wednesday			
	Thursday			
	Friday			
	Saturday			
	Monday			
	Tuesday			
	Wednesday			
	Thursday			
	Friday			
	Saturday			

\* Holidays / CL and OD days to be mentioned against the corresponding dates

Signature of HOD: \_\_\_\_\_

# ATTENDANCE

Roll No.	Reg. No.	Name	No. of Periods Attended			
			1	2	3	4
19EE	31231910					
291	5001	Abhiseka Manikantan. V				
274	5002	Abhiseka A				
211	5003	Avinna. S				
250	5004	Abhiseka. M				
134	5005	Abhinava. V. J				
135	5006	Abhinava. S. T				
156	5007	Abhishek. T				
246	5008	Abhishek. N. S				
236	5009	Ajith. V. A				
149	5010	Ajmal Abdul Kader. H				
239	5011	Akshaya. Krishnan				
180	5012	Alfred Einstein. G				
130	5013	Amrita. Varmani. M				
209	5014	Anurag. P. V				
234	5015	Arto. Bharath. R				
253	5016	Arunthraj. S				
139	5017	Arunthan. R				
223	5018	Ashwin. S				
257	5019	Ausika. Parveen. I				
244	5020	Balaji. S				

## CONTINUOUS ASSESSMENT MARKS

MONTH	DATE	PERIOD	MARKS			
			FAE-I	FAE-II	MESEL	Total
2	20/11/22	1				
2	21/11/22	2				
2	22/11/22	3				
2	23/11/22	3				
2	24/11/22	3				
2	25/11/22	3				
2	26/11/22	3				
2	27/11/22	3				
2	28/11/22	3				
2	29/11/22	3				
2	30/11/22	3				
2	01/12/22	3				
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2	12/02/23	3				
2	13/02/23	3				
2	14/02/23	3				
2	15/02/23	3				
2	16/02/23	3				
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2	30/05/23	3				
2	31/05/23	3				
2	01/06/23	3	</			



# ATTENDANCE

Roll No.	Reg No	Name	No of Periods Attended			
			1	2	3	4
14EE	5023/410					
150	5021	Bala Murgan D				
146	5022	Reekha S				
147	5023	Sharath Kumar M				
147	5024	Amin Joe. A				
133	5025	Charan K				
119	5026	Chris Austin A				
114	5027	Chris Kevin A				
145	5028	Christy Peiris R				
144	5029	Deepana E				
130	5030	Denira S				
107	5031	Shanulakshmi R				
162	5032	Dhanraj G				
148	5033	Sharoni Balan G				
173	5035	Dhyanath P				
145	5036	Divya Lakshmi G				
115	5037	Elanchezhiyan R J				
155	5038	Eureak S Singh				
152	5039	Evanarena M				
152	5040	Godsen S V Noble				
223	5041	Gokul N				

MONTH	DATE	PERIOD	CONTINUOUS ASSESSMENT MARKS				Total
			Pre-til	Pre-til	Pre-til	Pre-til	
12	24	1	40	46	47	133	
12	24	2	34	37	30	101	
12	24	3	39	41	43	123	
12	24	4	40	48	45	133	
12	24	5	34	36	35	105	
12	24	6	34	37	37	108	
12	24	7	39	41	43	123	
12	24	8	40	48	45	133	
12	24	9	34	36	35	105	
12	24	10	34	37	37	108	
12	24	11	39	41	43	123	
12	24	12	40	48	45	133	
12	24	13	34	36	35	105	
12	24	14	34	37	37	108	
12	24	15	39	41	43	123	
12	24	16	40	48	45	133	
12	24	17	34	36	35	105	
12	24	18	34	37	37	108	
12	24	19	39	41	43	123	
12	24	20	40	48	45	133	
12	24	21	34	36	35	105	
12	24	22	34	37	37	108	
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12	24	98	34	37	37	108	
12	24	99	39	41	43	123	
12	24	100	40	48	45	133	

Total  
ABSENT  
Total  
PRESENT

2	1	1	1
18	20	19	20





## SUMMARY OF CLASS WORK

DATE: 23/2/2022 PERIOD: 4, 5 TOTAL NO OF CLASS 02 UNIT: 01

- Introduction
- DC MLC types - Explanation

DATE: 24/2/2022 PERIOD: 1, 9 TOTAL NO OF CLASS 04 UNIT: 01

Electrical Engineering Materials taught - Conductors,  
Magnetic materials

DATE: 25/2/2022 PERIOD: 2, 7 TOTAL NO OF CLASS 05 UNIT: 01

- Magnetic Materials
- Insulating materials

## SUMMARY OF CLASS WORK

DATE: 26/2/2022 PERIOD: 3 TOTAL NO OF CLASS 06 UNIT: 01

- Magnetic circuit
- Armature Reaction

DATE: 28/2/2022 PERIOD: 2 TOTAL NO OF CLASS 07 UNIT: 01

Magnetic circuit calculation

DATE: 1/3/2022 PERIOD: 4, 5 TOTAL NO OF CLASS 09 UNIT: 01

Reluctance of airgap with closed slot  
open slot

Sign of sheet with date

### SUMMARY OF CLASS WORK

DATE 2/2/22 PERIOD 1, 9 TOTAL NO. OF CLASS 11 UNIT 01

Retardance of airgap including skinning effect and  
Ventilating ducts  
MMF calculation

DATE 4/2/22 PERIOD 2 TOTAL NO. OF CLASS 12 UNIT 01

→ Effects of saliency  
→ Field form factor

DATE 5/5/22 PERIOD 3 TOTAL NO. OF CLASS 13 UNIT 01

→ Net length of iron, gross length,  
→ MMF for teeth  
    ├── Graphical Method  
    ├── 3 ordinate method  
    └── Bk/L<sub>g</sub> method

### SUMMARY OF CLASS WORK

DATE 10/3/22 PERIOD 1, 9 TOTAL NO. OF CLASS 15 UNIT 01


→ Relation b/w Real flux density and apparent flux density  
→ Problems solved in MMF for airgap,  
    └ Real & apparent flux density

DATE 11/3/22 PERIOD 2 TOTAL NO. OF CLASS 16 UNIT 01

Maximising current for concentrated winding  
└ distributed winding  
→ Non sinusoidal flux distribution

DATE 12/3/22 PERIOD 3 TOTAL NO. OF CLASS 17 UNIT 01

Terminologies using winding diagram  
→ conductor, turn, coil, pole pitch

  
Sign of HOD with Date



## SUMMARY OF CLASS WORK

DATE: 14/3/2022 PERIOD: 2 TOTAL NO. OF CLASS 18 UNIT: 01

- Pole pitch, full pitch winding, short pitch winding
- Types of winding connection
  - Lap winding
  - Lap winding

DATE: 16/3/2022 PERIOD: 4, 5 TOTAL NO. OF CLASS 20 UNIT: 01

### Problem

- Based on wave winding
- Based on Lap winding

DATE: 17/3/2022 PERIOD: 1, 9 TOTAL NO. OF CLASS 22 UNIT: 01

- Leakage Reactance
- Types of leakage flux
- Slot leakage Reactance for Parallel sided slot, Semiclosed slot

## SUMMARY OF CLASS WORK

DATE: 18/3/2022 PERIOD: 3 TOTAL NO. OF CLASS 23 UNIT: 01

Problems based on Leakage calculation

DATE: 19/3/2022 PERIOD: 3 TOTAL NO. OF CLASS 24 UNIT: 02

Types of Transformer UNIT-02 Design of Transformer  
Core & shell type transformer

DATE: 21/3/2022 PERIOD: 2 TOTAL NO. OF CLASS 25 UNIT: 02

op Equation of 1 $\phi$  Core type Transformer

Sign of HOD with Date

### SUMMARY OF CLASS WORK

DATE: 23/3/2022 PERIOD: 415 TOTAL NO. OF CLASS 27 UNIT: 02

- O/p Equation of 2 $\phi$  core type transformer
- EMF/turn voltage

DATE: 24/3/2022 PERIOD: 419 TOTAL NO. OF CLASS 29 UNIT: 02

- problems based on o/p Equation

DATE: 25/3/2022 PERIOD: 2 TOTAL NO. OF CLASS 30 UNIT: 02

- problems based on o/p Equation

### SUMMARY OF CLASS WORK

DATE: 26/3/2022 PERIOD: 3 TOTAL NO. OF CLASS 31 UNIT: 02


- design of core
- square type core

DATE: 30/3/2022 PERIOD: 415 TOTAL NO. OF CLASS 33 UNIT: 02

- Design of core
- 2 stepped core
  - Comparison of 2 stepped, 3 stepped & 4 stepped core

DATE: 31/3/2022 PERIOD: 9 TOTAL NO. OF CLASS 34 UNIT: 02

- Design of 1 $\phi$  Transformer overall dimension

  
Sign of HOD with Date



### SUMMARY OF CLASS WORK

DATE: 2/4/2022 PERIOD: 3 TOTAL NO. OF CLASS 35 UNIT: 02

- Design of 3rd overall dimension of Transformer
- Design of Yoke
- Design of winding

DATE: 4/4/2022 PERIOD: 2 TOTAL NO. OF CLASS 36 UNIT: 02

problems based on core design

DATE: 6/4/2022 PERIOD: 4 TOTAL NO. OF CLASS 37 UNIT: 02

problems based on core design

### SUMMARY OF CLASS WORK

DATE: 7/4/2022 PERIOD: 9 TOTAL NO. OF CLASS 38 UNIT: 02

problems based on core design  
problems based on Overall Dimensions

DATE: 11/4/2022 PERIOD: 2 TOTAL NO. OF CLASS 39 UNIT: 02

- Estimation of no load current
- problems based on no load current

DATE: 20/4/2022 PERIOD: 4 & 5 TOTAL NO. OF CLASS 41 UNIT: 02

- Design of cooling tubes -
- problems based on cooling tubes.

  
Sign of HOD with Date

### SUMMARY OF CLASS WORK

DATE: 21/4/2022 PERIOD: 9 TOTAL NO. OF CLASS 42 UNIT: 03

Unit - 03 DC M/C Design.

- Construction of DC M/C
- Choice of Electric & Magnetic loadings

DATE: 25/4/2022 PERIOD: 2 TOTAL NO. OF CLASS 43 UNIT: 03

- O/P Equation, Separation of D & L
- Problems based on O/P Equation

DATE: 28/4/2022 PERIOD: 1, 9 TOTAL NO. OF CLASS 45 UNIT: 03

- Selection of No. of Poles  
~~Step by step pr~~  
Factors Influencing Selection of No of Poles
- Problems based on selection of No of poles

### SUMMARY OF CLASS WORK

DATE: 29/4/2022 PERIOD: 2 TOTAL NO. OF CLASS 46 UNIT: 03

Design of Armature

- Design procedure
- Winding factor for No. of Armature Slots

DATE: 4/5/2022 PERIOD: 4, 5 TOTAL NO. OF CLASS 48 UNIT: 03

- Problems based on Armature design
- Design procedure for Commutator & Brushes

DATE: 5/5/2022 PERIOD: 1, 9 TOTAL NO. OF CLASS 50 UNIT: 03

- Problems based on Commuter Losses
- Design procedure for Field System

  
Sign of HOD with Date



## SUMMARY OF CLASS WORK

DATE: 10/5/2022 PERIOD: 3, 9, 10 TOTAL NO. OF CLASS 53 UNIT: 03

- Problems based on Field System
- Armature design using 'e'.

DATE: 11/5/2022 PERIOD: 4, 5 TOTAL NO. OF CLASS 55 UNIT: 04

### UNIT 04 Design of IM

- Construction, o/p Equation of IM
- Choice of Specific loading
- Separation of D & L

DATE: 12/5/2022 PERIOD: 9 TOTAL NO. OF CLASS 56 UNIT: 04

### Stator Design

- Factors Influencing Selection of No. of Stator and No. of Stator Conductors

## SUMMARY OF CLASS WORK

DATE: 14/5/22 PERIOD: 3 TOTAL NO. OF CLASS 57 UNIT: 04

Problems based on D & L

DATE: 18/5/22 PERIOD: 4, 5 TOTAL NO. OF CLASS 59 UNIT: 04

- Problems based on Stator Design
- No. of slots
  - No. of conductors/slot.

DATE: 19/5/22 PERIOD: 1, 9 TOTAL NO. OF CLASS 61 UNIT: 04

- Design of Squirrel cage rotor
- Problems based on Squirrel cage rotor

  
Sign of HOD with Date

## SUMMARY OF CLASS WORK

DATE: 20/5/22 PERIOD: 2 TOTAL NO. OF CLASS 62 UNIT: 04

Design of Wound Rotor  
Step by Step procedure.

DATE: 21/5/22 PERIOD: 3 TOTAL NO. OF CLASS 63 UNIT: 04

Problems based on Wound Rotor

DATE: 23/5/22 PERIOD: 2 TOTAL NO. OF CLASS 64 UNIT: 04

- Magnetizing current
- Dispersion Coefficients

## SUMMARY OF CLASS WORK

DATE: 25/5/22 PERIOD: 4,5 TOTAL NO. OF CLASS 66 UNIT: 04, 05


Problems based on Magnetizing current  
Unit 05 Synchronous Machines Design.  
→ Construction, o/p Equation of syn. MC  
→ Choice of specific loadings.

DATE: 26/5/22 PERIOD: 9 TOTAL NO. OF CLASS 67 UNIT: 05

Problems based on D+L

DATE: 28/5/22 PERIOD: 3 TOTAL NO. OF CLASS 68 UNIT: 05

- Short circuit Ratio
- Design of Stator Design

  
Sign of HOD with Date



### SUMMARY OF CLASS WORK

DATE: 30/5/22 PERIOD: 2 TOTAL NO. OF CLASS 69 UNIT: 05

Problems based on stator Design.

DATE: 1/6/22 PERIOD: 4, 5 TOTAL NO. OF CLASS 71 UNIT: 05

- Design of Rotor
- Design of field windings

DATE: 2/6/22 PERIOD: 1, 9 TOTAL NO. OF CLASS 73 UNIT: 05

- Problems based on Rotors
- Problems based on field windings


### SUMMARY OF CLASS WORK

DATE: 3/6/22 PERIOD: 2, <sup>Spas up</sup> <sub>class</sub> TOTAL NO. OF CLASS 76 UNIT: 05

- Design of Damper windings
- Problems based on Damper windings.

DATE: 6/6/22 PERIOD: 3 TOTAL NO. OF CLASS 77 UNIT: 05

DATE: PERIOD: TOTAL NO. OF CLASS UNIT:

  
Sign of HOD with Date

# RESULT ANALYSIS

## MODEL EXAMINATION

1	Date of Exam	:	14/6/22
2	Total No. of Students	:	54
3	No of Students Attended	:	54
4	No of Students Passed	:	50
5	Percentage of Pass	:	92.59%

### RESULT ANALYSIS

Range of Marks	No. of Students	0 - 44	45 - 60	61 - 76	76 - 90	81 - 90	91 - 100
		04	24	21	05		00

Signature of the Staff

: 

Name of the Staff

: JEYAPREKASHAN

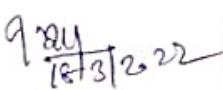
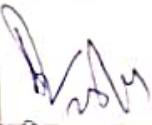
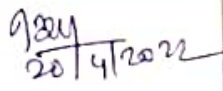

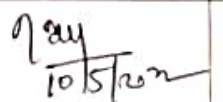
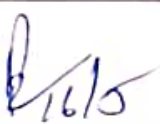
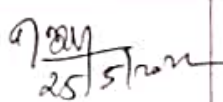
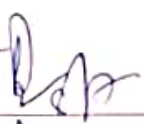
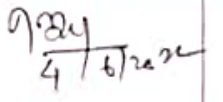
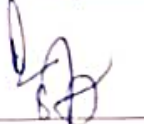
Signature of the HOD of the Concerned

Department with Date

: 





(After distributing the answer scripts)

### SYLLABUS COVERAGE

Unit No.	Started on	Completed on	No. of hours	Sign of staff with Date	Sign of HOD with Date
01	23/2/2022	18/3/2022	23	 18/3/2022	
02	19/3/2022	20/4/2022	18	 20/4/2022	
03	21/4/2022	10/5/2022	12	 10/5/2022	
04	11/5/2022	25/5/2022	12	 25/5/2022	
05	25/5/2022	4/6/2022	12	 4/6/2022	



# REMARKS

S.No	Date	Remarks/Comments/Deviations, if any	HOD Signature with Date
1.	18/3/22	Unit - I <sup>n</sup> was planned 14 Hrs But I took 23 Hrs. <del>Before</del> I solve more no. of Problems. Solved	
2.	19/3/22	Unit - II was planned 14 Hrs. But I took 18 Hrs. I have solved more problems in less duration.	
3	10/5/22	UNIT 03 was planned 13 Hrs. Due to brief Introduction of UNIT 01, I have completed this unit in 12 Hrs.	
4	25/5/22	UNIT 04 was planned 15 Hrs. Due to brief Introduction of UNIT 01, I have completed this unit in 12 Hrs.	









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**St. JOSEPH'S COLLEGE OF ENGINEERING**

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**St. JOSEPH'S INSTITUTE OF TECHNOLOGY**



**St. Joseph's Group of Institutions**

**Jeppiaar Educational Trust**

OMR, CHENNAI - 600 119



★ Since 1994★

★ Since 2011★

**SUMMARY OF LABORATORY WORK  
ASSESSMENT AND ATTENDANCE RECORD**



Laboratory/ Workshop : MS. S. GOMATHI , Ms. VENKATESHKUMAR

Year : 2021 - 2022 Semester II

Name of the Staff: GE1207 - ENGINEERING PRACTICE LAB

Department : EEE

## LAB COMPLETION DETAILS

	From	To	Sign of In-charge with Date	Sign of HOD with Date
Cycle 1 Batch I	4/4/2022	13/6/22	S. <u>Indira</u> 13/6/22	<u>[Signature]</u> 11/6/22
Cycle 2 Batch II	11/4/22	23/5/22	S. <u>Indira</u> 13/6/22	<u>[Signature]</u> 11/3/22
Cycle 3				





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Jeppiaar Educational Trust

OMR, Chennai - 119.



Department of Electrical and Electronics Engineering

II Semester EEE

Staff Copy

GE1207- ENGINEERING PRACTICES LABORATORY

GROUP - B (ELECTRICAL)

Course Outcomes (COs): After the course, the student can gain an:

S.No	Course Outcomes
C115.1	Ability to comprehend the concept of wiring with the help of various electrical elements.
C115.2	Ability to understand the working principle of Fluorescent Lamp by appropriate connection of elements.
C115.3	Ability to analyze the concept of functioning of a bulb whose control is at two different places.
C115.4	Ability to know the measurement of basic electrical quantities and the devices required for their measurements.
C115.5	Ability to comprehend the purpose of earthing of electrical equipment.

Attainment of POs through COs (Legends : 1 - Low , 2 - Medium, 3 - High)

### MAPPING BETWEEN COs, POs AND PSOs WITH CORRELATION LEVEL 1 / 2 / 3 :

GE8261	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
C115.1	1	1	1	1	2	1	1	2	2	2	1	3	2	3	2	1
C115.2	1	1	1	1	2	1	1	2	2	2	1	3	2	3	2	1
C115.3	1	1	1	1	2	1	1	2	2	2	1	3	2	3	2	1
C115.4	2	1	2	2	2	1	1	2	3	3	1	3	3	3	2	1
C115.5	1	2	1	1	2	1	1	2	3	2	2	3	2	3	2	1

### Relation between Course content/ Experiments with Cos

Sl. No.	Course Content	CO Statement	Knowledge level
1.	Residential house wiring using switches, fuse, indicator lamp and energy meter	C115.1	R,A,U
2.	Fluorescent lamp wiring	C115.2	R,A,U,An,E
3.	Staircase wiring	C115.3	R,A,U,An,E
4.	Measurement of real power, reactive power, power factor and impedance of rlc circuit using voltmeters and ammeters	C115.4	R,A,U,An,E
5.	Measurement of energy using single phase energy meter.	C115.5	R,A,U,An,E

S. S. S. S.  
STAFF SIGN.

*[Signature]*  
HOD SIGN.

*[Signature]*  
PRINCIPAL



# ATTENDANCE

Roll No.	Reg.No.	Name	Month		
			Date		
			Period		
	31232110	BATCH I			
21EI228	7028	KEERTHIVASAN . VEE			
	7029	MARTIN RITO			
21EI207	7030	MELVIN ADMARSH IG			
		BATCH II			
216	7032	MOHAMED SAMEER . M			
203	7033	NAVNEETH R			
234	7035	PRADEEP KUMAR			
213	7036	REYMO KANGSLY A			
		BATCH III			
214	7037	RUTHARAN . A			
225	7038	SARATHI VIJAYAN . S			
201	7041	SANTHOSH . M			
	7042	SANDEEP . J			
		BATCH IV			
107	7042	SANU . J			
105	7045	SHADURVEDHI			
		BATCH V			
215	7046	SIVAGUNAM			
108	7047	SHRIVATHSAN			
236	7048	SUDHARSAN			
			Total Absent		
			Total Present		



# Top Monitoring Sheet

Staff (1):

Staff (2):

Staff (3):

No. of Students :

4	4	5	5	6												
4	18	16	30	13												
9	9	9	9	9												
1																
1	1	1	1	1												
1	1	1	1	1												
1	1	1	1	1												
1	1	1	1	1												
1	1	1	1	1												
1	1	1	1	1												
1	1	1	1	1												
1	1	1	1	1												
1	1	1	1	1												
1	1	1	1	1												
1	1	1	1	1												
1	1	1	1	1												
1	1	1	1	1												
1	1	1	1	1												
1	1	1	1	1												
1	1	1	1	1												
1	1	1	1	1												
1	1	1	1	1												
1	1	1	1	1												
-	-	-	-	-												
15	15	15	15	15												

							MARKS			
4	15	16	17	18	19	20	Attend.	Record	Model	Total
									(5)	(20)
							2.5	2.5	5	20
							2.5	2.5	5	20
							2.5	2.5	5	20
							2.5	2.5	5	20
							2.5	2.5	5	20
							2.5	2.5	5	20
							2.5	2.5	5	20
							2.5	2.5	4	18
							2.5	2.5	5	20
							2.5	2.5	4	18
							2.5	2.5	5	20
							2.5	2.5	4	18
							2.5	2.5	5	20
							2.5	2.5	5	20
							2.5	2.5	5	20
							2.5	2.5	5	20
							2.5	2.5	5	20

allowed

NS - Not submitted









# ATTENDANCE

Roll No.	Reg.No.	Name BATCH II	Month		
			Date		
			Period		
		BATCH I			
21ET229	212321107001	Abineth . N			
21ET702	003	Akash . P			
21ET103	005	Albert Frankim . M .			
		Batch - II			
21ET224	008	Arun Kumar . K			
21ET208	009	Ashwin . B			
21ET116	010	BalaHarikandam . B			
		Batch - III			
21ET	012	Dhuleban Selva rathnam k P			
21ET219	013	Dishan . S . H			
21ET235	015	Lokimath . G			
		Batch - IV			
21ET115	016	Harinath . S			
21ET104	017	Harish . M .			
21ET110	018	Hirithik . S			
		Batch - V			
21ET218	019	Flakijam . M			
21ET117	021	Jehash Josephmanuel . C			
21ET101	023	Kabilam . P			
			Total Absent		
			Total Present		













# SUMMARY OF LABORATORY WORK

CYCLE -

BATCH - I

GROUP	EXPERIMENT NO.							
	1 Completed Date	2 Completed Date	3 Completed Date	4 Completed Date	5 Completed Date	6 Completed Date	7 Completed Date	8 Completed Date
A1	4/4/22	18/4/22	21/5/22	30/5/22	13/6/22	13/6/22		
A2	4/4/22	13/6/22	18/4/22	16/5/22	30/5/22	13/6/22		
A3	4/4/22	13/6/22	23/6/22	18/4/22	16/5/22	30/5/22		
A4	4/4/22	30/5/22	13/6/22	13/6/22	18/4/22	16/5/22		
A5	4/4/22	16/5/22	30/5/22	13/6/22	13/6/22	18/4/22		
A6	4/4/22	18/4/22	16/5/22	30/5/22	13/6/22	13/6/22		
A7	4/4/22	13/6/22	18/4/22	16/5/22	30/5/22	13/6/22		
A8	4/4/22	13/6/22	13/6/22	18/4/22	16/5/22	30/5/22		
A9	4/4/22	30/5/22	13/6/22	13/6/22	18/4/22	16/5/22		
A10								

*S. Justin*

Signature of Staff

*[Signature]*  
Signature of HOD



# SUMMARY OF LABORATORY WORK

CYCLE -

BATCH - II

## EXPERIMENT NO.

GROUP	EXPERIMENT NO.							
	1 Completed Date	2 Completed Date	3 Completed Date	4 Completed Date	5 Completed Date	6 Completed Date	7 Completed Date	8 Completed Date
A1	11/4/22	25/4/22	25/4/22	9/5/22	9/5/22	23/5/22		
A2	11/4/22	23/5/22	25/4/22	25/4/22	9/5/22	9/5/22		
A3	11/4/22	9/5/22	23/5/22	25/4/22	25/4/22	9/5/22		
A4	11/4/22	9/5/22	9/5/22	23/5/22	25/4/22	25/4/22		
A5	11/4/22	25/4/22	25/4/22	9/5/22	9/5/22	23/5/22		
A6	11/4/22	23/5/22	25/4/22	25/4/22	9/5/22	9/5/22		
A7	11/4/22	9/5/22	23/5/22	25/4/22	25/4/22	9/5/22		
A8	11/4/22	9/5/22	9/5/22	23/5/22	25/4/22	25/4/22		
A9								
A10								

*S. Indira*

Signature of Staff

*[Signature]*

Signature of HOD

**GROUP B (ELECTRICAL & ELECTRONICS)**

**III ELECTRICAL ENGINEERING PRACTICE**

**13**

1. Residential house wiring using switches, fuse, indicator, lamp and energy meter.
2. Fluorescent lamp wiring.
3. Stair case wiring
4. Measurement of electrical quantities – voltage, current, power & power factor in RLC circuit.
5. Measurement of energy using single phase energy meter.
6. Measurement of resistance to earth of an electrical equipment.

**IV ELECTRONICS ENGINEERING PRACTICE**

**16**

1. Study of Electronic components and equipments – Resistor, colour coding measurement of AC signal parameter (peak-peak, rms period, frequency) using CR.
2. Study of logic gates AND, OR, EX-OR and NOT.
3. Generation of Clock Signal.
4. Soldering practice – Components Devices and Circuits – Using general purpose PCB.
5. Measurement of ripple factor of HWR and FWR.

**TOTAL: 60 PERIODS**

EJE