

**SASURIE COLLEGE OF ENGINEERING** 

Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai

Near NH544, Coimbatore Bypass, Near Vijayamangalam Tollgate, Tirupur 638056

# NAAC DOCUMENTS

# **QUALITY INDICATOR FRAME WORK**

# **CRITERION - 1**

# **CURRICULAR ASPECTS**



INTERNAL QUALITY ASSURANCE CELL

# **SASURIE COLLEGE OF ENGINEERING**





	-	
Criterion 1	Curricular Aspects	100

1.1 Curricular Planning and Implementation (20)

1.1.1The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment

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S.No	Description
1	Contents - Course File
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9	Quality Objective Monitoring Record
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1 ACIN in a land SASURIE INSTITUTIONS College of Engineering vijayamangalam, Tiruppur. Departmen; FF SPECIAL ELECTRICAL MACHINES. Subject code & name EE 6703 Class & batch IV 4 EEG Semester VI CONTENTS - COURSE FILE REMARK NNO PARTICULARS Time Table Student name list Student arrear list 4 Subject Information Record 5 Syllabus 6 Lesson Plan 7 Test Plan for the Subject 8 Result Analysis 9 Corrective Action Report 10 Quality objective monitoring record 11 Internal test mark sheet(Consolidated) Internal test question paper with answer key 12 13 Model question paper with answer key Slip test question paper with answer key -14 15 Sample Answer paper for all test(Min-3) Content beyond the syllabus 16 Tutorial Class - schedule and content 17 Assignment - schedule and maper) X 18 3/13 PPT - handout 19 S/w Video - Animation - Sof\* copy 20 clu Question bank 21 Sample university question papers(min 5 QP-recent exam) 515 22 Personal Log book - Undated Cr 23 Lecture Note 2.4 Special Class if any, Approval letter, Schedule, content 25 covered. Approved By Prepared By Sign Name: ]0 H Faculty Head, Dept. of EEE SASURIE Colloga of Enginearing Wersmangalam-131114 Dr.M.VIJÄYAKUMAR ME., Ph.D., PRINCIPAL SASURIE COLLEGE OF ENGINEERING. Vijayamangalam - 638 056, Tirupur (Dt).

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a Dr.M.VIJAYAKUMAR ME., Ph.D., PRINCIPAL SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 638 056, Tirupur (Dt).



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SASUPLE College of Challerson

#### IV VEAR NAME LIST

Dypartment

Electrical and Hectronics Engineering

	S.No.	Reg. No.	Name of the Student
	1.	732416105001	AMSAVENI S
	2.	732416105002	ARHIARANP
	3.	732416105003	BASKAR S
	-1.	732416105004	BOOPATHI S
	5.	732416105005	DHARANID
	6.	732416105006	HARISH D
	7	732416105007	KALLALAHAR K S
	8.	732416105009	KARTHIKEYAN V
	9.	7.32416105010	KIRUBIIAKARAN R
	10.	732416105011	NAVEENKUMAR M
		732416105012	NAVEENKUMAR R
	11.	732416105013	PAVITHRA M
	12.	732416105014	RAJESHKUMAR M
in train Mai	13.	732416105015	TAMILSFLVAM G
	1.4.		VANMATHI P
	15.	732416105016	νιρηγά ν
	16.	732416105017	
	17.	732416105301	м длтн
		732416105302	.GUNASEKARAN S
	18.	732416105501	M.CHANDHRAKUMAR
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Dr.M.VIJAYAKUMAR ME., Ph.D., PRINCIPAL SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 638 056, Tirupur (Dt).



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Vijayamangetan , tiroppu	1.

### SUBJECT INFORMATION RECORD

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	A CARLENCE TO		•
	SUBJECT INFORM	ATION RECORD	
Department	: 1	EEE	
Subject	••••	SPECIAL ELECTRICAL MACHINES	
Year		<b>\</b> √	14
Semester	· · · ·	11	
Last year handled by		ი -	:
Percentage of Result	(last year)	О.	5 J. 5
Quality Objectives		To impart Knowledge on the cond	huchin
		To impart Knowledge On the condi- to the special Electrical maching.	
Reference Book		J.E.MILLER BRUSHLESS PERMI	Nde=1
	1	MAGNET AND RELUCTALE MOTOR.	
		TILROPROCESSON CONTROLS"	THEIR
Construction		Approved By	-
Sign	Prepared By	- 9722-	
- Name	Faculty	HD HD Head, Dept. et TEL Head, Dept. et TEL SASU & 13	
		College of Engineering	1
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			R ME., Ph.D.
		SASURIE COLLEGE OF ENG Vijayamangalam - 638 056, Tij	INEERING.



SASURIE

(Accredited by NAAC, Under 2f and 12B status)

#### **Faculty Name**

: V.KARTHIVEL

Proposed

LESSON PLAN

Department Subject / Code

: EEE

**Designation: Assistant Professor** Semester/ Year: VII/ IV

SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 638 056, Tirupur (Dt).

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: EE6703 / SPECIAL ELECTRICAL MACHINES

Academic Year

: 2019-2020

No.	Propose			Actual					
	Date Period Details of Topic Covered		TA	Re	f.	Date	Period	Remarks	
			UNIT-1-SYNCHRONOUS RELUCTANC	EMOT	ORS		Date	T CHOU	
1	7/1/2019	7	Constructional features		Ti		1 Jaka	2	
1	7/2/2019	2	Types				1/7/19	7.0	
3	7/2/2019	8	Axial and Radial flux motors		1		02 107/12	2	1
4	7/3/2019	4	Operating principles	1	1		02/07/19	8	100
5	7/4/2019	1	Variable relectance moter	1			03107119-	-4-	DA15
G	1/5/2019	3	Voltage and Torque Equations	· · ·	1-		031914	8	
1	7/6/2019	6	Voltage and Torque Equations	!-	μ_		04107169	1	
8	7/8/7019	7	Applications.		<u> </u>		05167119_	3	
9	7/9/2019	2	Applications.	1	+!-		0517119-	-7-1	1
	·		UNIT-II STEPPER MOT				6417119		
10	7/9/2019	8	Constructional features, Principle of operation		1.		12 1	3	182
11	7/10/2019	4	Variable reluctance motor	<u> </u>			12/7/19	3	1)8
12	7/12/2019	3	Hybrid motor		-+		13/7/19	7	
13	//15/2019	7	Single and multi stack configurations		++-		17/7/19	4	
14	7/16/2019	2	Torque equations, Modes of excitation, Characteristics	1	1,				Y
15	//16/2019	8	Drive circuits				2317119	8	
10	7/17/2019	4	Microprocessor control of stepper motors		+1		2617119	3	19.2
17	7/29/2019	7	Closed loop control				2717/19	6	11
18	7/30/2019	2	Concept of lead angle, Applications.				29/7/19	17	1
			UNIT III SWITCHED RELUCTANCE MOTORS (	SRM)			3017117	2	1
19	7/30/2019	8	Constructional features	1		-	301710	8	4
20	7/31/2019	4	Rotary and Linear SRM, Principle of operation		1	·	21/7/15	4	· 1
21	8/2/2019	3	Torque production, Steady state performance prediction-				01101117	1	
77	8/5/2019	7	Analytical method					3	A
23	8/6/2019	2	Power Converters and their controllers				02/05/19	- 3	10
2.5	8/6/2019	8	Methods of Rotor position sensing				08105117	2	Xt
25	8/7/2019	4	Sensor less operation		1		Del ettin	6	
- 76	8/9/2019	3	Characteristics and Closed loop control		11		10/05/19	1	
27	8/13/2019	2	Applications	-	11		13100109		2
	0/13/2015		UNIT IV PERMANENT MAGNET BRUS	HLESS I	D.C.	M	DTORS		-1
28	8/13/2019	8	Permanent Magnet materials				13/28/19	8	
79	8/14/2019	4	Minor hysteresis loop and recoil line	_		1	14105113	4	1 a T
30	8/26/2019	7	Magnatic characteristics, Permeance coefficient				1710117	3	1 Pr
31	8/27/2019	2	Principle of operation, Types	_	1	-	-15/08-127-	4	-pe-
- 37	8/27/2019	8	Magnetic circuit analysis		1	ī	14100107	6	
- 33	8/78/2019	4	EMF and torque equations		11		- Injucity	7	_
34	8/30/2019	3	Commutation		T		- · · ·		2
35	9/3/2019	2	Power Converter Circuits and their controllers	_	1	1	- Zulerky	18	-1
36	9/3/2019	8	Motor characteristics and control, Applications		1	1	2110119	4	
		·	UNIT V PERMANENT MAGNET SYNCHRONO	DUS MI	oto	RS	(PMSM)		
37	9/4/2019	4	Principle of operation, Ideal PMSM	1	1	1	2216/19	1	
38	9/6/2019	3	EMF and Torque equations		1	Ī	244349		
39	9/9/2019	1	Armature MMF		1	1	Run	7	
: 40	9/10/2019	2	Synchronous Reactance		1	T		-	
# 41 s	9/10/2019	8	Sine wave motor with practical windings		1	1	- 2 claster	7	
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Text books (Ref):

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1. K.Venkataratnam, 'Special Electrical Machines', Universities Press (India) Private Limited, 2008.

2. 1.J.E. Miller, 'Brushless Permanent Magnet and Reluctance Motor Drives', Clarendon Press, Oxford 1998. REFERENCES:

1. R.Krishnan, 'Switched Reluctance Motor Drives – Modeling, Simulation, Analysis, Design and Application', CRC Press, New York, 2001.

2. P.P. Acarnicy, 'Stepping Motors – A Guide to Motor Theory and Practice', Peter Perengrinus, London, 1982

Teaching Aids (TA): 1. Black Board with Chalk

7. Overhead Projector

3. ICD Projector

Others (Field vists, Charts, Cutset Models)

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4. Others (Field Visi			
Prepared by	Verified by	Approved by	Authorized by
Sign: X W	2 948		
Name: Mr.V.Karthivel	Mr.G.Johay	Mrs.P.Muruga Priya	Dr.K. Pandiarajan
I aculty	HD	IQAC Head	Principal

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N Dr.M. VIJAYAKUMAR ME., Ph.D., SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 638 056, Tirupur (Dt).

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			College of Engineering	



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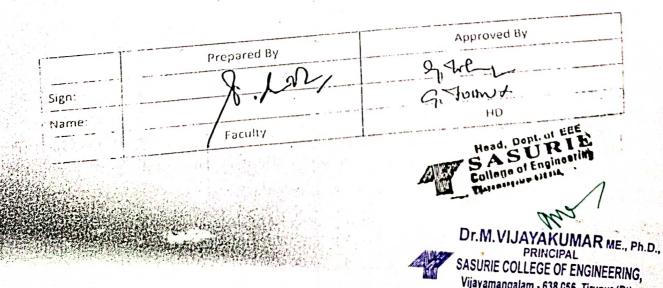
#### SASURIE College of Engineering Vijáyamangalam, tiroppor.

### RESULT ANALYSIS OF TEST & CORRECTIVE ACTION PLAN

Subject	SEM		Date	20.08.19	
Class	$\mathbf{V}$		Department	EEE	
Semester	V I V				
Exam details &	& date	:	Internal test-	1 4 19.8.19.	
Faculty		:	V.Karthivel.		
Number of st	udents 🧖	:	19-		*
No. of studen	its attended	:	19		
No. of studen	ats absent	:	0		
No. of studen	ats passed	:	19		
No. of studen	nts failed	:	0		
Percentage o	failures	. :	0		

#### RESULT DATA:

anarks .	0-25	26-50	51-75	76-90	91-100
Marks No. of Students		-	7	7	5



Vijayamangalam - 638 056, Tirupur (Dt).





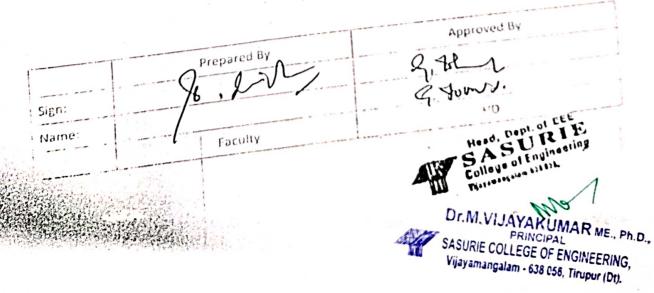
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### **RESULT ANALYSIS OF TEST & CORRECTIVE ACTION PLAN**

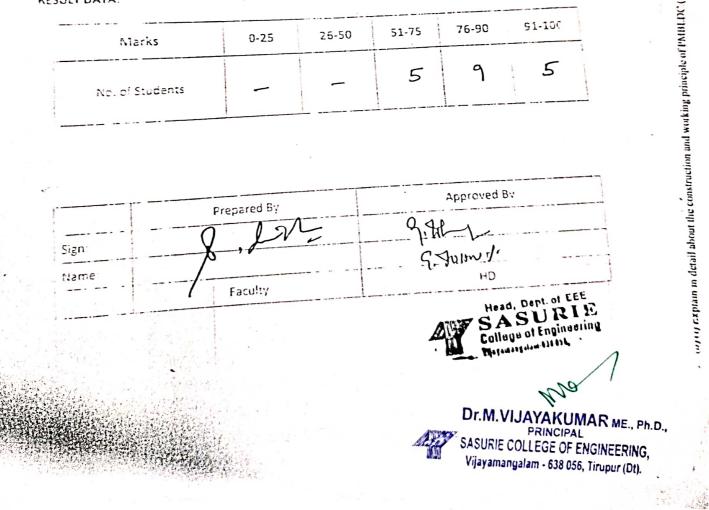
Subject SEM	Date 14.09.19
Class IV	Department GEC
Semester : VII	
Exam details & date	Internal tell - 2 4 13.07.14.
Faculty	V. Karminel.
Number of students	ι <u>η</u>
No. of students attended	11
No. of students absent	0
No. of students passed	17
No. of students failed	02
Percentage of failures	10.5

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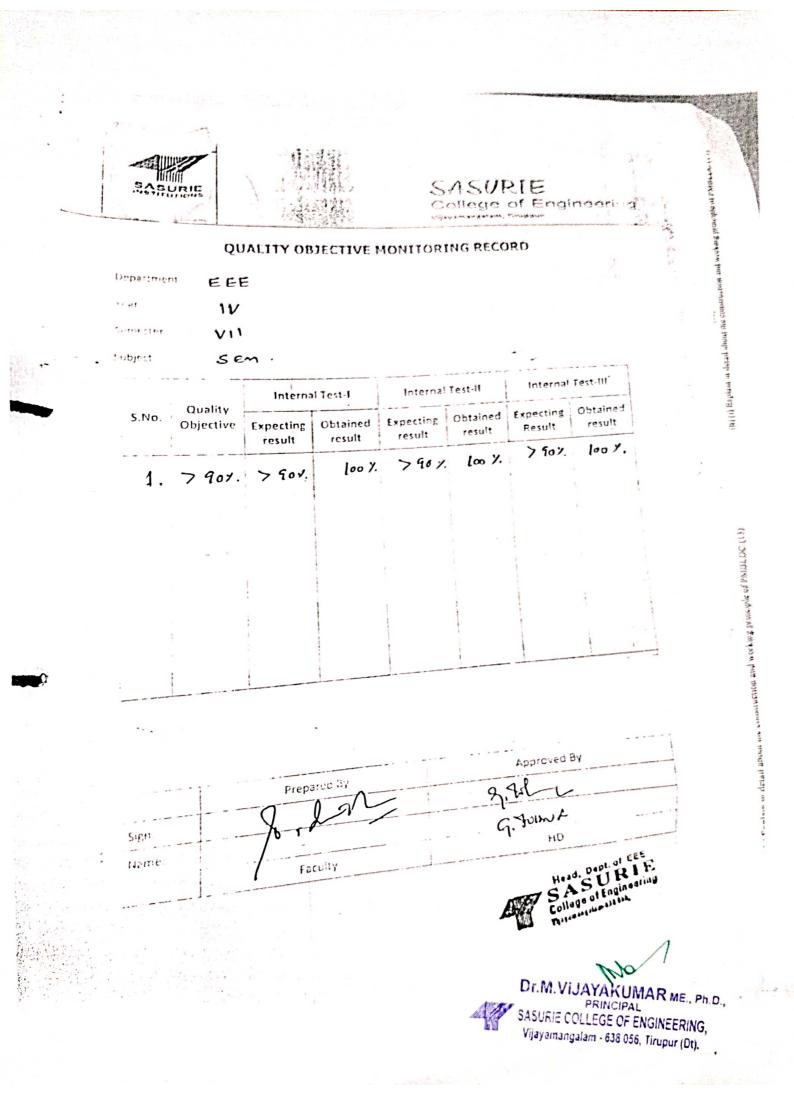
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RESULT AN	ALYSIS OF TEST	& CORRECTIVE ACTION PLAN	when it fully
Subject S C Class . IV		Date 11.10.19	(b) (i) Explain in detail about the construction and working principle of PMRL1.
Semester VI		Department EEE	עוד ואינגייוני
Exam details & date Faculty		Model Exam 4 10.10.2019 ,	ut the cons
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No. of students attended		19	Explain in
No of students absent		0	(1)(9)
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subject Se	m	Semester VII
NON CONFORMANCE	REPORT	
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	Department of Mecha ASSIGNMENT	mical Engineering	SUBMISSION		uction and working pracept
SLNO 1 2 •		and drives . and its Anourations . and "Applications .	DATE 29.7.19 19.08.19 31.05.19.		(b) (i) Explain in detail about the construction and working principle of
3	Surfaced Relietine motor				(b) (i) Expl
			· · · · · · · · · · · · · · · · · · ·		of PMBLDC.(13)
					working principle of PM
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		ALLAN OR	M.VIJAYAKUM PRINCIPAL SURIE COLLEGE OF EN ayamangalam - 638 056,	IGINEERING	

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Register Souther:



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College of Engineering

MODE	LEXAN	AINATION		Date/Session 1	4.10.2019 Man	rka	100
Course	code	EE6703	Course Title		TRICAL MACH		
Regula	tion	2017	Duration	3 Hours	Academic Year	2019-2	()
Year		IV	Semester •	VII	Department	EEE	
COUR	SE OUT	COMES			and a superior from the second second		
C01:	Abili	ity to analyze and de	sign controllers for s	pecial Electrical Ma	ichines		
CO2:			owledge on construct				
CO3:	Abili	ty to acquire the know	owledge on construct	ion and operation of	stepper switched	reluctance	c motor
@)4:			rinciple of operation,				
C05:	Abili	ty to acquire the know	owledge on construct	ion and operation of	permanent magne	t brushles	s D.C
	moto						
CO6:			owledge on constructi	ion and operation of	permanent magnet	t synchro	nous
C07:	moto		Martine Constantin				
101.	[ ADIII	ty to select a special	Machine for a partic	ular application.	energe had hanne had bland bland bland an		
Q.No.		······	Question			CO	BIS
3			PAR	ТА			
		(An	swer all the Questio	ns $10 \ge 2 = 20$ Mar.	ks)		
1		any four properties	of reluctance motors			<u>CO3</u>	R
2	Define re	eluctance torque.				CO3	R
3	Write the	e principle of operati	ion of stepping motor	•		CO2	R
4	Discuss 1	the applications of m	nicro stepping VR ste	pper		CO3 CO2	R
5	Define v	oltage pulse with me	dulation control	1		CO2	K
6	List out t	he advantages of sw	itched reluctance mot	1015	and a second	CO5	R
	Define P	ermeance coefficien	EPMPI DC motor			COS	K
	Mention	some applications of	T MBLDC Motor		-	COG	R
9 1	Define Io	ad angle . neant by slot less me	otor?			COL	R
10	what is in	neam by stor ress int	PART	В			
		(Ans	wer all the Ouestion	$55 \times 13 = 65$ Mark	s)		
11a (	i) Explai	n the steady state nh	asor diagram of sync	hronous reluctance r.	notor (ii)	COI	AN
	Explain th	he construction and o	operation of axial and	radial flux machine	5.		
			OR				
11b (	i) Genera	alize the expression 1	for the torque equation	n for the synchronou	15	COI	
г	1 4000	mator (9)				•	С
	(ii)Discu	iss the various applic	ations of synchronou	s refuctance motor with d	lifferent modes	CO2	ĸ
			able reluctance type	stepper motor with a	interent modes	002	K
C	of operation	on	<u> </u>				And and the second of
			OR		Ar	CO2	- A 31
12b V	With neat	block diagram expla	in microprocessor co		MUJAYAKUMAR	THE Ph D	1
		A TA			PRINCIPAL	N	
				SASI SASI	DENTYTIAVAL	LIARA D	
				· Vez	PRINC	UMAR N	IE., Ph.D.
					SASURIE COLLEGE (	OF ENGINE	RING
				•	Vijayamangalam - 638	056, Tirupul	(Dt).
	-						

1	/	(i) Explain with near circuit any two configuration of power converters wed for the control of switched reluctance motor? (2) (ii) State the advantages of sensor less operation. (7)	6 1 1	1
1		and a set of the set o	and the second	K
	13b 14a	Explain the closed loop control analysis of switched reluctance motor (i)Explain the speed torque characteristics of PMBLDC (85) (ii) Differentiate between mechanical and el tetronic commutators (5)	CO4 CO5	- ^
	146		an an Arthur	
F	15a	xplain in detail about the construction and working principle of PMBLDC	COS	1
-		xplain the construction and working principle of operation of PMBLDC	CO6	Δ
	15b	) raw and explain the phasor diagram of PMSM	006	
		PART C		
-	16	(Answer all the Questions 17 15 - 15 At 1		
	16a	Explain the closed loop schme of a PMBLDDC motor .Drive with suitable schematic iagram.	CO5	AN
1		OR		
L	G C	Ilustrate B-H hysteresis loop of the permanent magnet material.	C'06	AN

8. - 13)-12017

Course Faculty (Name /Sign / Date) Mr. .V. Karthivel

9 Artigola

(Name /Sign / Date) れゃ・モ・John

51:11 Principal

(Name /Sign / Date)

Dr. T. Siva Kumarap

Dr.M.VIJAYAKUMAR ME., Ph.D., PRINCIPAL SASURIE COLLEGE OF ENGINEERING, Vijayanangalam - 638 056, Tirupur (DI).

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6

### Internal Assessment Test Answer Book

SASURIE College of Engineering

Name	S.Amsav	reni		Year/ Semester/Section	TV - VII
Register Number	732416105001		14.10.19	Department	EEE
Course code	EE 6703	Course Title		ELECTRICAL MAN	CHINES
Internal Asses	sment Test		1AT 2	IAT 3 Mode	
Name and Sig	nature of the Invigi	lator with date	Prok	ju(10/17 J. Sasika	mu

Instructi	on to	the Student.	Put tick man	ik to tl	re question at	ended	in the column	against question.
I	Part	A		I	Part B/ Par	t C		
Q. No.	~	Marks	Q. NO.	~	a Marks	~	b Marks	Total Marks
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2	~	2	12	V	12			12
3	~	2	13			~	12	12-
4	/	2	14	~	13			13
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Total		20	Gra	Name and Signature Grand Total of the Examiner with da			Signature	

e ezer		To be fill	ed by the	examiner			
Course Outcomes	1	2	3	4	5	6	Total
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### SASURIE College of Engineering

# DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### **Assignment** Question Paper

Name of the Student: S. Amsaulni

AU Register Number: 732416105001

	Assignmen	t - 01	Date of Issue:	22.7.2019	Marks	10
Course code	EE6703	Course Title	Special Electrical	Machines		
Year	IV	Semester/Section	VII	Date of Submiss	ion: 29.7.20	119

Q.No	Questions	СО
1	Synchronous reluctance motor and drives.	COI

Name and Signature of the Faculty Incharge

V. KARTHIVEL

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HOD/EEE

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### SASURIE College of Engineering

# DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### Assignment Answer Sheet

Name of the Student: S. Amggveri

AU Register Number: 739416105001

Assignment - 01			Date of Issue:	22.7.2019	Marks	10
ourse cod	e EE6703	Course l'itle	Special Electrical	Machines		
Vear	IV	Semester/Section	VII	Date of Submissi	on: 29.7.20	019

Q.No	Questions	со
1	Synchronous reluctance motor and drives.	COI

#### Mark Allocation

Rubrics	Marks Allocated	Marks obtained
Content Quality	6	6
Presentation Quality	2	2_
Timely submission	2	2
Total marks	10	(0

D.L.V.

Name and Signature of the Faculty Incharge V. KARTHIVEL

1.

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