

Sapthagiri College of Engineering

(Alfillated to Visvesvaraya Technological University, Belgaum & Approved by AICTE, New Delhi)

STUDENTS FEEDBACK ON CURRICULUM

This questionnaire is to collect information relating to your satisfaction towards curriculum for creating conducive atmosphere for teaching and learning. The information provided by you will be kept confidential and will be used as important feedback for quality improvement of the program of studies/institution.

Academic Year	2016-12-
Branch	17-15
Name of the Student	Naven
USN	15913 FZ 625

Rate the curriculum/syllabus on the following Boints

SL NO	Statements	Excel ent	Very good	Good	Average	Below Average
		5	4	3	2	1
1	How do you rate the sal abus of the courses that you have studied in relation to the competencies expected out of the course?		/	-		
2	How do you rate the a location of the credits to the courses?			,		
3	Relevance for implementation in projects		1/			
4	How do you rate the electives offered in relation to the technological advancements?					
5	How do you rate the evaluation scheme designed for each of the course?		V			
6	How do you rate the percentage of courses having LAB components?		/			
7	Curriculum is sufficient to make you analyze the engineering problems and its suitable solution		/			
	Suggestions (if any)	Posic	tial re	der	Medge	hay

Suggestions:

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Academic Year	2016-12	
Branch	150	
Name of the Student	TOP HEAMU	
USN	1201415411	

SL NO	Statements	Excellent	Very good	Good	Average	Below Average
140		5	4	3	2	1
1	How do you rate the syllabus of the courses that you have studied in relation to the competencies expected out of the course?	V				
2	How do you rate the allocation of the credits to the courses?		/			
3	Relevance for implementation in projects	NT FEET	1001			
4	How do you rate the electives offered in relation to the technological advancements?					
5	How do you rate the evaluation scheme designed for each of the course?		~			
6	How do you rate the percentage of courses having LAB comporents?			~		
7	Curriculum is sufficient to make you analyze the engineering problems and its suitable solution		/			
	Suggestions (if any)	Spe	CH)	7 1)des	en

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Academic Year	2016-12
Branch	KYSE I STATE OF THE STATE OF TH
Name of the Student	Punceth T. Ko
USN	15913 EE 409

SL	te the curriculum/syllabus on the following Poll Statements	Excellent	Very	Good	Average	Below Average
NO		5	4	3	2	1
1	How do you rate the syllabus of the courses that you have studied in relation to the competencies expected out of the course?	1	•			
2	How do you rate the allocation of the credits to the courses?	1				
3	Relevance for implementation in projects		V			
4	How do you rate the electives offered in relation to the technological advancements?		V			
5	How do you rate the evaluation scheme designed for each of the course?			V		
6	How do you rate the percentage of courses having LAB components?					
7	Curriculum is sufficient to make you analyze the engineering problems and its suitable solution	1				
	Suggestions (if any)	Jindu req	etro	2 -to	ainiy	i E.
Su	Curriculum is sufficient to make you analyze the engineering problems and its suitable solution Suggestions (if any) ggestions: Samestee. Sy substantial to see the solution Signature white solution solution Signature white solution	lente Die	2	hos	to to	se
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Academic Year	1.2016-17
Branch	EXA.
Name of the Student	CHANDMI KUMAR NEWATIA
USN	1SG I FLOW

SL NO	Statements	Excellent	Very	Good	Average	Below Average
NO		5	4	3	2	1
1	How do you rate the syllabus of the courses that you have studied in relation to the competencies expected out of the course?	V				
2	How do you rate the a location of the credits to the courses?		V			
3	Relevance for implementation in projects	Delig Est	Tim	1		
4	How do you rate the e ectives offered in relation to the technological advancements?	V				
5	How do you rate the evaluation scheme designed for each of the course?		V	•		
6	How do you rate the percentage of courses having LAB components?			/		
7	Curriculum is sufficient to make you analyze the engineering problems and its suitable solution		/			
	gestions: cnce ina you. 20	Cei	stit	icetion	on Ce	Bruch
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Principal



Sapthagiri College of Engineering

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FACULTY FEEDBACK ON CURRICULUM

This questionnaire is intended to collect information relating to your satisfaction towards the curriculum, teaching, learning and evaluation. The information provided by you will be kept confidential and will be used as important feedback for quality improvement of the program of studies/institution.

Academic Year	9016-17-
Branch	Electrical Offedonics
Name of the Faculty	Rukmongo da R
Designation	Ant. Professou
Subject/Sub. code	Analog Clectoric excella

Rate the curriculum/syllabus on the following Points

SL	Statements	Excellent	Very good	Good	Average	Below Average
IAO		5	4	3	2	1
1	Do you feel that the curriculum is defined in a way to clarify your teaching goals and what you expect your students to learn?					
2	Is the curriculum suffcient to bridge the gap between industry standards /current global scenarios and academics?		_			
3	Is the timel coverage of curriculum possible in the mentioned number of hours?					
4	Sufficient reference material and books are available for the topics mentioned in the curriculum?		-			
5	The evaluation methods mentioned in the curriculum are suffcient for providing proper assessment?	_				
6	Curriculum is suitable to the course		~			
7	The curricu um/course of this subject increased my knowledge and perspective in the subject area	_				

Suggestions: Subject in clear &	Knowledge	mly	think	they	donot.
workshop / Colas Trans	proctical	如少	80 g	ae be	conduct
Woodshop / Conficcation Con Signature: P/ Conficcation Con	VZ	7			0

SAPTHAGIRI College of Engineering Creating Tomorrow

SRI SRINIVASA EDUCATIONAL & CHAFITABLE TRUST (R)

Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belgaum & Approved by AICTE, New Delhi)

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Academic Year	2016-17
Branch	E.E.E
Name of the Faculty	Dhamadharan d
Designation	Assistant Drokaspin
Subject/Sub. code	Power System Analysia

Rate the curriculum/syllabus on the following Points

SL	Statements	Excellent	¥ery good	Good	Average	Below Average
NO		5	4	3	2	1
1	Do you feel that the curriculum is defined in a way to clarify your teaching goals and what you expect your students to learn?	_				
2	Is the curriculum suffcient to bridge the gap between industry standards /current global scenarios and academics?		_			
3	Is the timely coverage of curriculum possible in the mentioned number of hours?	1				
4	Sufficient reference material and books are available for the topics mentioned in the curriculum?					
5	The evaluation methods mentioned in the curriculum are suffcient for providing proper assessment?					
6	Curriculum is suitable to the course					
7	The curricu um/course of this subject increased my knowledge and perspective in the subject area	-				

Suggestions: Lab in There	but I	conduct	industrial
visit or woodelop It	en of in	· cony for	a The Studen
Suggestions: Lab in There viait of woodledge It signature: to underland.	16)	



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Academic Year	2016
Branch	EEE
Name of the Faculty	Pakha S.N
Designation	Amorate promon
Subject/Sub. code	15 EE 32, Eincuit Analysis

Rate the curriculum/syllabus on the following Points

SL NO	Statements	Excellent	Very good	Good	Average	Below Average
		5	4	3	2	1
1	Do you feel that the curriculum is defined in a way to clarify your teaching goals and what you expect your students to learn?	~				
2	Is the curriculum sufficient to bridge the gap between industry standards /current global scenarios and academics?					
3	Is the timely coverage of curriculum possible in the mentioned number of hours?		~			
4	Suffcient reference material and books are available for the topics mentioned in the curriculum?					
5	The evaluation methods mentioned in the curriculum are suffcient for providing proper assessment?	~				
6	Curriculum is suitable to the course					
7	The curriculum/course of this subject increased my knowledge and perspective in the subject area					

Suggestions: More practical hours is required then it is easy to undustand the concepts for the students



Signature Sundad.

SFI SRINIVASA EDUCATIONAL & CHARITAELE "RUST (R)

Sapthagiri College of Engineering

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This questionnaire is intended to collect information relating to your satisfaction towards the curriculum, teaching, learning and evaluation. The information provided by you will be kept confidential and will be used as important feedback for quality improvement of the program of studies/institution.

Academic Year	2016
Branch	EEE /
Name of the Faculty	Swetha E
Designation	ARAT ProjeRADUR
Subject/Sub. code	15EE33

Rate the curriculum/syllabus on the following Points

SL NO	Statements	Excellent	Very good	Good	Average	Below Average
NO		5	4	3	2	1
1	Do you feel that the curriculum is defined in a way to clarify your teaching goals and what you expect your students to learn?	<u></u>				
2	Is the curriculum sufficient to bridge the gap between industry standards /current global scenarios and academics?	~				
3	Is the timely coverage of curriculum possible in the mentioned number of hours?	~				
4	Suffcient reference material and books are available for the topics mentioned in the curriculum?	<u></u>				
5	The evaluation methods mentioned in the curriculum are suffcient for providing proper assessment?		~			
6	Curriculum is suitable to the course	u			BURN	THE R
7	The curriculum/course of this subject increased my knowledge and perspective in the subject area	~				

Suggestions: Mare	Industrial	Vixit	2	predical	knowledge
la ouquired		()	V		(



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ALUMNI FEEDBACK ON CURRICULUM

We shall be thankful if you can spare some of your valuable time to fill up this feedback form and give us valuable suggestions for further improvement of the College. Your valuable inputs will be of great use to improve the quality of our academic programs and enhance the credibility of our Institution. Rate the adequacy of following as they were during your tenure as a student

Year of Passing	Nota PJ 2016.
Branch	, CEE
Name	WoLa PJ
Status : Work/Study	COSMONET
Phone no	8277113123

Rate the curriculum/syl abus on the following Points

SL	Statements	Excellent	Very good	Good	Average	Below Average
NO		5	4	3	2	1
1	When you compare yourself with other counterparts from other Institution, you feel that you got most of all the facilities which is not available in other Institution	L				
2	Learning value (in terms of skills, concepts, knowledge, analytical abilities or broadening perspectives)		L-1			
3	Curriculum is sufficient to make you analyze the engineering problems and its suitable solution	-				
4	How do you rate the learning experience in terms of their relevance to the real life application					
5	Ability to work in teams					THE REAL
6	Ability to link theory to practice					Di hin
7	How do you rate the course/curriculum content that you have learnt in relation to your current job	-				
8	Compatibility with incustry standards	/				

Suggestions: Placement e chivilien are good but student, are hagging in proctical things they don't have idea signature of the breaker they don't have idea.



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Year of Passing	Dallows. 2016.
Branch	EGE
Name	Pallari Mazumdar
Status: Work/Study	ICICI Book
Phone no	7829712587

Rate the curriculum/syllabus on the following Points

SL	Statements	Excellent	Very good	Good	Average	Below Average
NO		5 4		3	2	1
1	When you compare yourself with other counterparts from other Institution, you feel that you got most of all the facilities which is not available in other Institution	_				
2	Learning value (in terms of skills, concepts, knowledge, analytical abilities or broadening perspectives)		_			
3	Curriculum is sufficient to make you analyze the engineering problems and its suitable solution	_	sole.			
4	How do you rate the learning experience in terms of their relevance to the real life application	~				
5	Ability to work in teams	~	THE !			Jane 1
6	Ability to link theory to practice		-			
7	How do you rate the course/curriculum content that you have learnt in relation to your current job	V				
8	Compatibility with industry standards		<u>L</u> ,			

Suggestions: Prodical Knowledge in der if they conduct
tour monter wouldshop/certy cation Courses then it is ungut
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Year of Passing	2016
Branch	Electrical & Orchanica
Name	Eldepak & patil
Status : Work/Study	Technologies Dut Ltd.
Phone no	9066195 739

Rate the curriculum/syllabus on the following Points

SL	Statements	Excellent	Very good	Good	Average	Below Average
NO		5	4	3	2	1
1	When you compare yourself with other counterparts from other Institution, you feel that you got most of all the facilities which is not available in other Institution					
2	Learning value (in terms of skills, concepts, knowledge, analytical abilities or broadening perspectives)		/			
3	Curriculum is sufficient to make you analyze the engineering problems and its suitable solution	-				
4	How do you rate the learning experience in terms of their relevance to the real life application		_			
5	Ability to work in teams	1				
6	Ability to link theory to practice	_		Bast	HIN	
7	How do you rate the course/curriculum content that you have learnt in relation to your current job		_			
8	Compatibility with industry standards					

Suggestions:	Bloder	J.	atry	donot	most	hove	Edeal	ckt	bounder	+
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Signature	ypel.				1		_			



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ALUMNI FEEDBACK ON CURRICULUM

We are glad that you have spent valuable years pursuing courses of your choice at SCE. We shall be thankful if you can spare some of your valuable time to fill up this feedback form and give us valuable suggestions for further improvement of the College. Your valuable inputs will be of great use to improve the quality of our academic programs and enhance the credibility of our Institution. Rate the adequacy of following as they were during your tenure as a student

Year of Passing	89LD 16
Branch	FEE
Name	Bhagya Lalenhmi
Status : Work/Study	NAT Data
Phone no	7204443716

Rate the curriculum/syllabus on the following Points

SL	Statements	Excellent	Very good	Good	Average	Below Average
NO		5	4	3	2	1
1	When you compare yourself with other counterparts from other Institution, you feel that you got most of all the facilities which is not available in other Institution			la idir		armil
2	Learning value (in terms of skills, concepts, knowledge, analytical abilities or broadening perspectives)		_			
3	Curriculum is sufficient to make you analyze the engineering problems and its suitable solution					
4	How do you rate the learning experience in terms of their relevance to the real life application					
5	Ability to work in teams			0.35	PERMIT	Market 1
6	Ability to link theory to practice	~	350		13/1/10	
7	How do you rate the course/curriculum content that you have learnt in relation to your current job		_			
8	Compatibility with industry standards	<u></u> .				

Suggestions: placement troming entire remeder Signature plaggalalahmot to be covared out. Kon



(Affiliated to Visvesvaraya Technological University, Belagavi& Approved by AICTE, New Delhi) #14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560057

Department of Electrical & Electronics Engineering

29-05-2017

CIRCULAR

This is to inform that the following Curriculum Board members are requested to attend the meeting on 37/05/2017 at 10.00AM in the HODs chamber to discuss about the analyzing of curriculum sy labus of academic year 2017-18.

SI No.	Faculty Name	Designation	Signature
1	Dr. K N Ravi	HOD	fors'
2	Prof. Rekha S N	Associate Professor	Pak
3	Prof. Dhamoda-an A	Assistant Professor	John
4	Prof. Ramya M	Assistant Professor	Ran 4
5	Prof. Swetha G	Assistant Professor	lee
6	Prof. Ashwini AV	Assistant Professor	W.

Principal Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaregnatta Main Road Bengaluru - 560 357

HOD, EEE PROF & HOD

Department of Electrical & Electronics Engineer Sapthagiri College of Engineering Bangalore - 560057.



(Affiliated to Visvesvaraya Technological University, Belagavi& Approved by AICTE, New Delhi) #14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

Department of Electrical & Electronics Engineering

Minutes of Meeting

With reference to above circular dated 29.05.2017 the curriculum board members assembled in HODs chamber for the following agenda.

AGENDA:

- Reviewing the department curriculum syllabus of academic year 2017-18.
- Reviewing the feedback analysis of various stakeholders for the academic year 2016-17
- Identifying the gaps.
- Action to be taken for identifying the gaps.
- The following Curriculum board members were present

SI No.	Faculty Name	Designation	Signature
1	Dr. K N Ravi	HOD	Kon
2	Prof. Rekha S N	Associate Professor	Della
3	Prof. Dhamodaran A	Assistant Professor	A Day
4	Prof. Ramya M	Assistant Professor	Ranky
5	Prof. Swetha G	Assistant Professor	POCTI
6	Prof. Ashwini AV	Assistant Professor	A

Sl No.	SEM	Course Title		Identified Gap		
1	IV	Switch gear Protection	and	Lack of knowledge about maintenance and safe operation of circuit breaker		
2	V	Transmission Distribution	and	Lack of knowledge about design of external insulation from permaner DC voltage		

The following points are discussed in the meeting

- The committee members reviewed the department curriculum syllabus.
- The committee members discussed about the feedback of department curriculum syllabus.
- The members identified the gaps based on the syllabus.
- The following action were taken for identifying the gaps.

ACTION TAKEN:

Based on the Feedback obtained from the students, faculties alumini and analysis of syllabus by academic committee members it was decided to conduct certification course on "Safe Operation and Maintenance of Circuit Breaker" and "The Design of External Insulation from permanent AC voltage" to overcome the gaps identified in the curriculum/syllabus.



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Department of Electrical & Electronics Engineering

SI No.	Faculty Name	Designation	Signature
1	Dr. K N Ravi	HOD	Kow
2	Prof. Rekha S N	Associate Professor	Pos
3	Prof. Dhamodaran A	Assistant Professor	John
4	Prof. Ramya M	Assistant Professor	Kany
5	Prof. Swetha G	Assistant Professor	alels).
6	Prof. Ashwini AV	Assistant Professor	2.4.7

KHOD, EEE

PROF & HOD

Department of Electrical & Electronics Engine Sapthagiri College of Engineering Bangalore - 560057.



(Affiliated to Visvesvaraya Technological University, Belagavi& Approved by AICTE, New Delhi) #14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560057

Department of Electrical & Electronics Engineering

To

Date: 02.06.2017

IQAC Coordinator Sapthagiri College of Engineering Bangalore-560057

Respected Sir

Subject: "Requisition for conduction of certification course and approval from governing council".

With respect to the academic committee members me sing was held for analyzing department curriculum/syllabus for the academic year 2017-18. The committee members identified few gaps after analyzing the syllabus and feedback from the stake holders. To bridge the gaps identified in the curriculum the committee members decided to conduct a certification course "Safe Operation and Maintenance of Circuit Breaker" for the academic year 2017-18.So I request you to forward and get the approval from governing council for the same.

Thanking you,

Enclosed: Bucget Proposal

Forwarded to fatibication

HOD, EEE

PINUF & HOD

firment of Electrical & Electronics Engines Sapthagin College of Engineering

Eangalore - 560057,

Principal



(Affiliated to Visvesvaraya Technological University, Belagavi& Approved by AICTE, New Delhi) #14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

Department of Electrical & Electronics Engineering

To.

IQAC Coordinator Sapthagiri College of Engineering Bangalore - 560057.

Respected Sir,

Subject: "Budget proposal for conduction of certification program on Safe Operation and Maintenance of Circuit Breaker"

With reference to above subject, I undersigned would like to bring the following for your kind information and consideration. As a part of programming skill development for EEE students, department of Electrical and Electronics Engineering would like to conduct 5 days Certification Course on "Safe Operation And Maintenance Of Circuit Breaker" from 25-Jul-2017 to 29-Jul-2017.

In this regard, I request you to kindly grant permission for the conduction of the course the above specified event for Please grant permission for the sanction of Rs.3744 for the conduction of the above mentioned program and oblige.

Estimated Budget

SI. No.	Item	Quantity	Unit Cost in Rs.	Total cost in Rs.
1	Certificates	98	20	2744
2	others			1000
Grar	id Total			3744

HOD, EEE

PROF & HOD

Copertment of Electrical & Electronics Engineering Sapthagiri College of Engineering

Bangalore - 560057.

Principal

Frowarded too the Grandson as a satisfied Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaraghatta Main Road

Bengaluru - 560 057



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Department of Electrical & Electronics Engineering

10-07-2017

CIRCULAR

This is to ir form that the following Curriculum Board members are requested to attend the meeting on 11/07/2017 at 10.30AM in the HODs chamber to discuss about the certification course.

SI No.	Faculty Name	Designation	Signature
1	Dr. K N Ravi	HOD	Kon
2	Prof. Rekha S N	Associate Professor	Per
3	Prof. Dhamedaran A	Assistant Professor	Allow
4	Prof. Ramya M	Assistant Professor	Pany E
5	Prof. Swetha G	Assistant Professor	Leel
6	Prof. Ashwini AV	Assistant Professor	J.V.Ah

PROF & HOD Department of Electrical & Electronics Engineering Sapthagiri College of Engineering Bangelore - 580057.



(Affiliated to Visvesvaraya Technological University, Belagavi& Approved by AICTE, New Delhi) #14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560057

Department of Electrical & Electronics Engineering

Date: 13-07-2017

To.

S Bhagwan Managing Director, Race Technology, Bangalore.

Respected Sir,

Subject: Invitation as a "Guest Speaker" in certification program and to attend meeting to discuss about the certification program

Department of Electrical and Electronics Engineering have planned to conduct a certification program titled "Safe Operation and Maintenance of Circuit Breaker" for 5th semester students from 25-07-2017 to 29-07-2017. In this connection, we are privileged to invite you as a guest speaker on the above mentioned topic.

Thanking you for your kind acceptance to our request on phone. We request you to attend the meeting to discuss about the conduction of certification course on 11/07/2017,10.30AM. We look forward to welcome you at SCE.

Thanking you

Sapthagiri College of Engineering

14/5, Chikkasandra, Hesaraghaita Main Road Bengaluru - 560 057

Yours faithfully

HOD, EEE

PROF & HOD

Department of Electrical & Electronics Engineering Sapthagiri College of Engineering Bangalore - 560057.



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Department of Electrical & Electronics Engineering

Minutes of Meeting

A meeting was conducted on 11-Jul-2017 in EEE HOD's Chamber to discuss and approve the following about the 5 days Certification Course for 5th semester EEE Students.

- Course Title: "Safe Operation and Maintenance of Circuit Breaker"
- Resource Personnel: S Bhagwan. Managing Director, Race Technology, Bengaluru.
- Course Duration & Date: 5 Days from 25-Jul-2017 to 29-Jul-2017.
- Course Content

Dates	SESSION 1 (8.30am-10.30am)	SESSION 2 (11.00am-12.30pm)	SESSION 3 Hands-on Session (1.30pm-4.00pm)
25-7-2017 Tuesday	Active and passive network components Circuit breaker utilization. Alternative forms of MV switchgear	Fuse switches HV fless in combination with and as alternatives to circuit breakers ring main units	Hands on Safe Operation and examples
26-7-2017 Wednesday	Air break and air blast switchgear SF6 vacuum Switchgear in association with isconnectors	Principles of current interruption Plain break circuit breakers Bulk and small oil volume circuit breakers	Hands-on Collections at Bulk and small oil volume circuit breakers
27-7-2017 Thursday	Fixed and withdraw-able designs Switchgear standards	Simple and complex protection systems Switchgear ancillaries,	Hands-on measurement CTs, VTs and relaysCable Connections
28-7-2017 Friday	general safety precautions the use of personal protective equipment	Principles of safety rules Principles of personal authorization	Hands on Operative training for safe operation of switchgear
29-7-2017 Saturday	Case study – Specification for a 132 KV Switchboard	Different techniques are used to extinguish the arcincluding Lengthening or deflecting the arcIntensive cooling (in jet chambers	Hands on safety policies in my company and how they might be improved Test Conduction



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Department of Electrical & Electronics Engineering

The following Curriculum board members were present

SI No.	Faculty Name	Designation	Signature
1	Dr. K N Ravi	HOD	for -
2	Prof. Rekha S N	Associate Professor	Det
3	Prof. Dhamoceran A	Assistant Professor	Solor
4	Prof. Ramya M	Assistant Professor	Pany
5	Prof. Swetha G	Assistant Professor	Jeel
6	Prof. Ashwini AV	Assistant Professor	J. 1. 1. 4:
7	S Bhagwan.	Guest Speaker	Dhahan

HOD, EEE

PROF & HOD

Department of Electrical & Electronics Engineering
Septhagiri College of Engineering
Bengalore - 560357.



(Affiliated to Visvesvaraya Technological University, Belagavi& Approved by AICTE, New Delhi) #14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

Department of Electrical & Electronics Engineering

NOTICE

As a part of programming skill development Department of Electrical and Electronics Engineering is conducting Five days Certification Course "Safe Operation and Maintenance of Circuit Breaker" from 25-July-2017 to 29-July-2017

All the 5th sem EEE students must attend the course compulsorily.

Signature of HOD

PROF & HOD
Department of Electrical & Electronics Engineering
Sapthagiri College of Engineering
Eangalore - 560057.

Principal
Sapihagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road

Bengaluru - 560 057



(Affiliated to Visvesvaraya Technological University, Belagavi& Approv∈c by AlCTE, New Delhi) #14/5, Child⊲asandra, Hesaraghatta Main Road, Benga u⁻u − 560057

Department of Electrical & Electronics Engineering

Certification Program: "Safe Operation and Maintenance of Circuit Breaker"

Lesson Plan

Dates	SESSION 1 (8.30am-10.30am)	SESSION 2 (11.00am-12.30pm)	SESSION 3 Hands-on Session (1.30pm-4.00pm)	No. of Hours
25-7-2017 Tuesday	Active and passive network components Circuit breaker utilization.Alternative forms of MV switchgear	combination with and as	Hands on Safe Operation and	6
26-7-2017 Wednesday	Air break and air blast switchgear SF6 vacuum Switchgear in association with iso connectors	Principles of current interruption Plain break circuit breakers Bulk and small oil volume circuit breakers	Handson Collections at Bulk and small oil volume circuit breakers	6
27-7-2017 Thursday	Fixed and with fraw-able designs Switchgear standards	Simple and complex protection system switchgear ancillaries,	Handson measurement CTs,VTs and relaysCable Connections	6
28-7-2017 Friday	general safety precautions the use of personal protective equipment	Principles of safety rules Principles of personal authorization	Hands on Operative training for safe operation of switchgear	6
29-7-2017 Saturday	Case study – Specification for a 132 KV Switchboard		Hands on safety policies in my company and how they might be improved Test Conduction	6
			Total	30

HOD EEE

PROF & HOD parament of Electrical & Electronics Engineer Sapthagin College of Engineering

- 580067.

GUEST SPEAKER

Principal



Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057

Department of Electrical and Electronics Engineering

5 days Certification Program on

"Safe Operation and Maintenance of Circuit Breaker"

Students Enrollment

Academic Year (2017-18)ODD

SL.No	-	Student Name	Academic Year (2017-18
1	1SG15EE005	ANNAPURNA SINGH	Signature
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Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaraghatta Main Road, Bengalu-u-560057

Department of Electrical and Electronics Engineering

SL.No	USN	Student Name	Signature
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43	1SG16FF409	CHANDAN K	Chuk
44	1SG16FE411	GEETHA S	Gethie
45	1SG16FF414		Aust
46	1SG16EE415	JAYANTH M V	tau.
47	1SG16EE418	KAUSHITH GOWDA M	Goneda -
48	1SG16EE419	KEERTHANKUMAR H N	Keerthersla
49	1SG16FF420	KIRAN KUMAR K	dina
50	1SG16FF422	KRANTHIKUMAR G S	Krapthitamar.
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36	1SG15EE070	RAGHAVENDRA M	Skyay
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8	1SG15EE084	SHRUJANA R KUMAR	Tharath c
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Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057

Department of Electrical and Electronics Engineering

SL.No	USN	Studient Name	Clanature
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94	1SG16FF431	NAYAN ASHREE B	Nayang
	1SG16EE432	NILESH N GUNJIKAR	Nelech
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Pertment of Electrical & Electronics English Sapthagiri College of Engineering Bengalore - 560057.

Principal



Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057 Department of Electrical and Engineering

5 days Certification Program on "Safe Operation and Maintenance of Circuit Breaker"

Attendance

S	I. USN	Student Name	25-	07-2017	26-	07-201	7 27	-07-2017	7 29	-07-2017	1	20.0=	111
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7	1SG15EE011	ARPITA SHARMA	1	2	3	14			6	7	8	9	10
- 8	1SG15EE012	ARPITHA SRINIVASA MURTHY	1	2	3	14	5	G	7	8	9	10	11
9	1SG15EE013	ARUNA B P	1	2	3			5	17	2	9	10	11
10	1SG15EE014	ATHIYA MOHAMMADI	1	2	3	3	5	-	6	7	8	9	10
11	1SG15EE015	BALAJI VENKATESH KALKONDA	i	2	3	-		6	7	8	9	10	11
12	1SG15EE017	C.S.MOHANA		2	3	4	5	6	6	7	8	9	10
13	1SG15EE019	CHAITRA S	1		-		2	6	17	8	9	10	(1
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Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057 Department of Electrical and Engineering

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Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057 Department of Electrical and Engineering

SI. No	USN	Student Name	25-0	7-2017	26-0	7-2017	27-0	7-2017	20.0				
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91	1SG15FF422	MEGHANA M.S	1	3	3	3	5	6	7	8	9	10	11
92	1SG15EE426	NANDEESH.K.S		-	100000000000000000000000000000000000000	Y	5	G	7	千	9	10	11
93	1SG16EE431	NAYANASHREE B	1	2	3	U	2	6	7	8	9	10	11
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95	1SG16EE434	NITHIN G	1	2	3	7	5	6	7	8	9	10	11
06	1SG16EE439	RAKESH S	1	2	3	7	5	-6	7	8	Q	q	9
7	1SG16EE443	SHASHANK K S	19	2	3	7	2	6	7	8	9	10	11
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epartment of Electrical & Electronics Engineering Sopthagiri College of Engineering Bangalore - 580057.

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(Affiliated to Visvescaraya Technological University, Belagavi& Approved by AICTE, New Delhi) #14/5, El ikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

Department of Electrical & Electronics Engineering

5 days Certification Course on "Safe Operation And

Maintenance Of Circuit Breaker"

Test Time Table

SI. No.	DATE	DAY	TIMINGS
1	29-07-2317	Saturday	4.0CPM-5.00PM

Principal

Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaregnatte Main Road Bengaluru - 560 057

HOD, EEE

PROF & HOD

Department of Electrical & Electronics Engineer Sapthagiri College of Engineering Bengalore - 560067.



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Department of Electrical & Electronics Engineering

5 days Certification Course on "Safe Operation And Maintenance Of Circuit Breaker" **Question Paper**

Duration :1hr

Maximum marks :25

Note: Question number 1-25 (1M each)

Answer all the Questions:

1) What is the average rate of rise of restriking voltage upto the first peak?

a. 525 * 103kV / sec

b. 453 * 103kV / sec

c. 582 * 103 kV / sec

d. 467 * 103 kV / sec

2) Circuit breakers usually operate under

- a. Steady short circuit curren:
- b. Sub transient state of short circuit current
- c. Transient state of shor circuit current
- d. None of these
- 3) What is the actuating quantity for the relays?
- a. Magnitude
- b. Frequency
- c. Phase angle
- d. All of these
- 4) Which among these are the main characteristics of a fuse element?
- a. Low melting point
- b. High conductivity
- c. Least deterioration due to oxidation
- d. All of the above

5) What is the making capacity of the circuit breaker?

- a. Less than the asymmetrical breaking capacity of the breaker
- b. Greater than the asymmetrical breaking capacity of the breaker
- c. Equal to the asymmetrical breaking capacity of the breaker
- d. Equal to the symmetrical breaking capacity of the breaker



6) SF6 is which type of gas?

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Department of Electrical & Electronics Engineering

a. Electro positive
b. Electro negative
c. Both (a) and (b)
d. None of these
7) In a circuit breaker the contact space is ionised by what?
a. Field emission from the contact surface.
b. Thermal emission from the contact surface.
c. Thermal ionisation of gas.
d. All of above.
8) A three phase, 33 kV oil circuit breaker is rated 1200 A, 2000 MVA, 3s. What is its symmetrical
breaking current?
a. 1200 A
b. 3600 A
c. 35 kA
d. 104.8 kA
9) What should be the value of fusing factor?
a. Equal to zero
b. Equal to one
c. Less than one
d. More than one
10) What is the relation between the fusing current and the diameter of the wire?
a. $I = k d^3$
b. $I = k d^{3/2}$
$\mathbf{c.} \ \mathbf{I} = \mathbf{k} \ \mathbf{d}^2$
d. $I = k d^{2/3}$
d. 1 – k u
11) The making and has bing assessed of a 2 phase as already breakers in payor systems are
11) The making and breaking currents of a 3 phase ac circuit breakers in power systems are
respectively inform.
a. rms value, rms value b. instantaneous value rms value
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Bengeluru - 580 057



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Department of Electrical & Electronics Engineering

- c. rms value, instantaneous value
- d. instantaneous value, instantaneous value
- 12) Why is an isolator installed?
- a. To isolate one portion of the circuit from another
- b. As an substitute for the circuit breaker
- c. It used on either sides of the circuit breaker
- d. Both (a) and (c)
- e. None of these
- 13) Assertion (A): In comparison to making capacity of a circuit breaker its breaking capacity is normally higher.

Reason (R): The breaking capacity of a CB is expressed as $\sqrt{3}$ * VI

- * 10-6 MVA
- a. Both A and R are true and R is the correct explanation of A
- b. Both A and R are true and R is not the explanation of A
- c. A is true but R is false
- d. A is false but R is true.
- 15) Which circuit breaker is preferred to be installed in extra high voltage AC system?
- a. Bulk oil type circuit breaker
- b. Air blast circuit breaker
- c. SF6 circuit breaker
- d. Vacuum circuit breaker
- 16) A three phase circuit breaker is rated 2000 MVA, 33 kV. What will be its making current?
- a. 35 kA
- b. 49 kA
- c. 70 kA
- d. 89 kA
- 17) A fuse wire of circular cross section has a radius of 0.8mm. The wire blows off at a current of 9A. What will be the radius of the wire that will blow off at a current of 1A?
- a. 0.2 mm
- b. 0.18 mm
- c. 0.28 mm
- d. 0.3 mm

Principal

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- 18) Which among these tests are performed to check the nation or international standards?
- a. Type test.
- b. Production tests.
- c. Site checks.
- d. All of the above.
- 19) Refer to the following facts to answer the question A 50 Hz, 11 kV, 3 phase alternator with earthed neutral having a reactance of 3 ohms per phase and is connected to a bus bar through a circuit breaker, if the distributed capacitance up to CB between the phase and neutral is 0.01 µ F. What is the frequency of oscillations?
- a. 10000 Hz
- b. 12500 Hz
- c. 12628 Hz
- d. 13265 Hz
- 20) What is switchgear?
- a. An apparatus used for sw tching, controlling and protecting the electrical circuits and equipments.
- b. It detects the faults only.
- c. It corrects the faults only.
- d. All of the above.
- 21) What is / are the main disadvantage / s of using oil as the quenching medium in the circuit breake
- a. Need periodical replacement.
- b. Risk of formation of explosive mixture with air.
- c. Possibility of causing fire hazards.
- d. All of the above.
- 22) Which of the following circuit breakers has the lowest operating voltage?
- a. SF6 circuit breaker
- b. Air break
- c. Air blast
- d. Minimum oil circuit breake-
- 23) The most efficient torque producing actuating structure for the induction type relays is
- a. Shaded pole structure
- b. Watt hour meter structure



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- c. Induction cup structure
- d. Single induction locp structure
- 24) Plug setting of a electromagnetic relay can be altered by varying
- a. Number of ampere turns
- b. Air gap of magnetic path
- c. Adjustable back stop
- d. None of these
- 25. Which of the following circuit breakers has the highest operating voltage?
- a. SF6 circuit breaker
- b. Air break
- c. Air blast
- d. Minimum oil circuit breaker

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Department of Electrical & Electronics Engineering

Approved by Academic Committee Members & HOD

SI No.	Faculty Name	Designation	Signature
1	Dr. K N Ravi	HOD	Hens
2	Prof. Rekha S N	Associate Professor	Dole
3	Prof. Dhamodaran A	Assistant Professor	Dolor
4	Prof. Ramya M	Assistant Professor	Cany
5	Prof. Swetha G	Assistant Professor	Joel
6	Prof. Ashwini AV	Assistant Professor	Jah. T.
7	S Bhagwan.	Guest Speaker	2/08/0

HOD, EEE

PROF & HOD

Department of Electrical & Electronics Engines
Sapthagiri College of Engineering
Bangatore - 560057.

Prismal



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Department of Electrical & Electronics Engineering

5 days Certification Course on

"Safe Operation And Maintenance Of Circuit Breaker"

Solutions for the Questions

Duration : Ihr

Maximum marks :25

Note: Question number 1-25(1M each)

Answers

- Option B
- 2. Option D
- 3. Option D
- 4. Option D
- 5. Option C
- 6. Option C
- Option C
- 8. Option C
- 9. Option C
- 10.Option D
- 11.Option D
- 12.Option A
- 13. Option C
- 14. Option A
- 15. Option C
- 16.Option D
- 17. Option B
- 18. Option A

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Department of Electrical & Electronics Engineering

19. Option C

20. Option D

21.Option D

22.Option C

23. Option C

24. Option D

25. Option B

Approved by Academic Committee Members & HOD

SI No.	Faculty Name	Designation	Signature
1	Dr. K N Ravi	HOD	NI
2	Prof. Rekha S N	Associate Professor	001
3	Prof. Dhamoda-an A	Assistant Professor	Adam
4	Prof. Ramya M	Assistant Professor	Pila
5	Prof. Swetha 3	Assistant Professor	hamp
6	Prof. Ashwini AV	Assistant Professor	A Talai

PROF & HOD

Department of Electrical & Electronics Enginee...g Sapthagiri College of Engineering Bangalore - 560057.

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057



Department of Electrical and Electronics Engineering

5 days Certification Course on "Safe Operation And

Maintenance Of Circuit Breaker"

Participant Feedback

1.	How was the overall organization of the Certification Course?
	a) Poor b) Satisfactory c) Good d) Excellent
2.	How appropriate were the facilities provided ?
	a) Poor b) Satisfactory c) Good d) Excellent
3.	Opportunity to ask questions for clarification and interaction with presenters
	a) Poor b) Satisfactory c) Good d) Excellent
4.	Effectiveness of the Hands-on Sessions
	a) Poor b) Satisfactory c) Good d) Excellent
5.	Topic and contents of the Certification Course
	a) Poor b) Satisfactory c) Good d) Excellent
6.	How do you rate the Certification Course compared to other workshops that you have attended?
	a) Poor b) Satisfactory c) Good d) Excellent
7.	Generally how was your overall experience during the Certification Course
	a) Poor b) Satisfactory c) Good d) Excellent
8.	Any Suggestions:
	It was nice, I understand Basis & practice
	maintence of circuit breaker & also openation
	I am happy with test conduction.
	Student Name: A TUP HIVE Student Signature:
	Principal 1
	Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaraghatta Main Road Bengaluru - 560 057



Department of Electrical and Electronics Engineering

5 days Certification Course on "Safe Operation And

Maintenance Of Circuit Breaker"

Participant Feedback

1.	How was the overall organization of the Certification Course?
	a) Poor b) Satisfactory c) Good d) Excellent
2.	How appropriate were the facilities provided?
	a) Poor b) Satisfactory c) Good d) Excellent
3.	Opportunity to ask questions for clarification and interaction with presenters
	a) Poor b) Satisfactory c) Good & Excellent
4.	Effectiveness of the Hands-on Sessions
	a) Pcor b) Satisfactory c) Good d) Excellent
5.	Topic and contents of the Certification Course
	a) Poor b) Satisfactory e) Good d) Excellent
6.	How do you rate the Certification Course compared to other workshops that you have attended?
	a) Poor b) Satisfactory c) Good d) Excellent
7.	Generally how was your overall experience during the Certification Course
	a) Poor b) Satisfactory c) Good d) Excellent
8.	Any Suggestions:
	I thouse expert for sharing practical knowledge
	went as per schedole

Principal

Student Name: (& Mohane

Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaraghatta Main Road Bengaluru - 560 057

Student Signature:



Department of Electrical and Electronics Engineering

5 days Certification Course on "Safe Operation And

Maintenance Of Circuit Breaker"

Participant Feedback

1	. How was the overall organization of the Certification Course?	
	a) Poor b) Satisfactory c) Good d) Excellent	
2.	How appropriate were the facilities provided ?	
	a) Poor b) Satisfactory e) Good d) Excellent	
3.	Opportunity to ask questions for clarification and interaction with presenters	
	a) Poor b) Satisfactory c) Good d) Excellent	
4.	Effectiveness of the Hands-on Sessions	
	a) Poor b) Satisfactory e) Good d) Excellent	
5.	Topic and contents of the Certification Course	
	a) Poor b) Satisfactory of Good d) Excellent	
6.	How do you rate the Certification Course compared to other workshops that you have attended?	
	a) Poor b) Satisfactory c) Good d) Excellent	
7.	Generally how was your overall experience during the Certification Course	
	a) Poor b) Satisfactory c) Good d) Excellent	
8.	Any Suggestions:	
	All 5 dge program ment apper Estadule.	
	I indereduce well related to consuce	
	Student Name: Apy Blave S Student Signature:	
	Principal Sapthagiri College of Engineering	1
	14/5, Chikkasandra, Hesaraghatta Main Road	

Bengaluru - 580 057



Department of Electrical and Electronics Engineering

5 days Certification Course on "Safe Operation And

ivalitenance Of Circuit Breaker"	
Participant Feedback	
1. How was the overall ciganization of the Certification Course?	
a) Poor b) Satisfactory c) Good d) Excellent	
2. How appropriate were the facilities provided ?	
a) Poor b) Satisfac ory c) Good d) Excellent	
3. Opportunity to ask questions for clarification and interaction with presenters	
a) Poor b) Satisfactory c) Good d) Excellent	
4. Effectiveness of the Hands-on Sessions	
a) Poor b) Satisfactory c) Good d) Excellent	
5. Topic and contents of the Certification Course	
a) Poor b) Satisfactory c) Good d) Excellent	
6. How do you rate the Certification Course compared to other workshops that you have attended?	
a) Poor b) Satisfactory c) Good d) Excellent	
7. Generally how was your overall experience during the Certification Course	
a) Poor b) Satisfictory c) Good d) Excellent	
8. Any Suggestions:	
I understand very well contents delivered by	
Teacher. Overall Test conduction was post.	
Student Name: Frenchaced Student Signature:	
	1



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Department of Electrical and Electronics Engineering

5 days Certification Course on "Safe Operation And

Maintenance Of Circuit Breaker"

	Participant Feedback
1.	How was the overall organization of the Certification Course?
	a) Poor b) Satisfactory c) Good d) Excellent
2.	How appropriate were the facilities provided?
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	a) Poor b) Satisfactory c) Good d) Excellent
7.	Generally how was your overall experience during the Certification Course
	a) Poor b) Satisfactory c) Good d) Excellent
8.	Any Suggestions:
	Thank you Et dept I was happy withithe
	bedrown & extent forthy toble to com 8 ingonstate

Student Name:

Student Signature:

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Bengaluru - 560 057



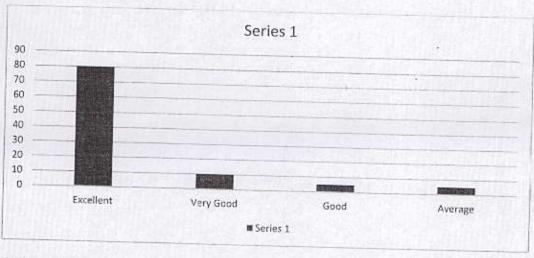
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Department of Electrical & Electronics Engineering

FEEDBACK ANALYSIS

Certification Programme: "Safe Operation and Maintenance Of Circuit Breaker"

No. of students participated		St	tudent Feedback	in percentage
r weipaica	Excellent	Very Good	Good	Average
98	80	10	5	5



Action Report:

80 % of students were completely happy with the certification program and 10 % of students felt it was a good program and remaining 5 % students were satisfied with the program and 5% were average with the program.

Action Taken:

The Feedback report which was collected from the students were sent to the principal and he would take necessary actions based on the comments and conduct more programs for the benefit of students.

Program Coordinator

Department of Electrical & Electronics Engine-Sapthagiri College of Engineering Bangaiore - 560057.

Brincipal

Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaraghatta Main Road Bengaluru - 560 057



Bangalore-560057

Certificate

This is to Certify that Mr./Ms.		
of	has	participated
and successfully completed Five days Certification Course on	"Safe	Operation and
Maintenance of Circuit Breaker" from 25th July, 2017 to 29th	July,	2017 organized
by the Department of Electrical & Electronics Engineering, S	Sapthag	iri College of
Engineering.		

HOD, Dept. of EEE

Principal
Saptinagiri College of Engine Grant
14/5, Chikkasandra, Hesaraphatta Midda Rocal
Bengaluru - 580 657



Bangalore-560057

Certificate

This is to Certify that Mr./Ms. Anusha. B - 159 15	EE008	
of <u>EEE</u>		participated
and successfully completed Five days Certification Course on	"Safe Op	eration and
Maintenance of Circuit Breaker" from 25th July, 2017 to 29th	July, 201	7 organized
by the Department of Electrical & Electronics Engineering, S	apthagiri	College of
Engineering.		

HOD, Dept. of EEE

Principal
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Bengaluru - 560 057

Principal



Bangalore-560057

Certificate

This is to Certify that Mr./Ms. Lohith - 5 15815	EE042	
of EEE	has	participated
and successfully completed Five days Certification Course on	"Safe Op	eration and
Maintenance of Circuit Breaker" from 25th July, 2017 to 29th	July, 20	17 organized
by the Department of Electrical & Electronics Engineering, S	apthagiri	College of
Engineering.		

HOD, Dept. of EEE

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Department of Electrical & Electronics Engineering

Certificate Course Report

Department of EEE conducted Certificate Course on "Safe operation and maintenance of circuit breaker.

Guest Speaker: S Bhagwan, Managing Director, Race Technology, Bangalore.

Duration of the course: five days from July 25th 2017 to July 29th 2017

Course detail

Objective of the Course: The five day course made the students to be familiar with the this course students will discuss the application, installation, maintenance and testing issues relating to medium and high voltage switchgear, circuit breakers. To understand of the issues associated with the proper application, installation and maintenance of these critical items of equipment with an overriding emphasis on safety.

The course will develop and enhance an understanding of what is involved in the maintenance of these essential components of the power systems, through the tips and tricks learnt and developed by some of the world's pre-eminent electrical engineers.

Certificate course made them comfortable with the Safe Operation and maintenance of ciruit breaker. Learning style adopted by students, which eventually is developed into a skill of their forte. Through this course, an ecstatic learning background paved way to a positive learning environment in the class where active participation was seen from every end. Faculty took the onus of interacting with the students personally to navigate them for the academic transition by becoming the guides by their side

Schedule of Certification Course

Dates 25-7-2017	SESSION 1 (8.30am-10.30am)	SESSION 2 (11.00am-12.30pm)	SESSION 3 Hands-on Session (130pm-4,00pm)	No. of Hours
Tuesday	Active and passive network components Circuit breaker utilization.Alternative forms of MV switchgear	Fuse switches HV fuses in combination with and as alternatives to circuit breakers ring main units	Hands on Safe Operation and examples	6
26-7-2017 Wednesday	Air break and air blast switchgear SF6 vacuum Switchgear in association with iso connectors	Principles of current interruption Plain break circuit breakers Bulk and small oil volume circuit breakers	Handson Collect ons at Bulk and small oil volume circuit breakers	6

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Department of Electrical & Electronics Engineering

Dates	SESSION 1 (8.30am-10.30am)	SESSION 2 (11.00am-12.30pm)	SESSION 3 Hards-on Session (1.30pm-4.00pm)	No. of Hours
27-7-2017 Thursday	Fixed and withdraw-able designs Switchgear standards	Simple and complex protection system switchgear ancillaries,	Handson measurement CTs, VTs and relaysCable Connections	6
28-7-2017 Friday	general safety precautions the use of personal protective ecuipment	Principles of safety rules Principles of persona authorization	Hands on Operative training for safe operation of switchgear	6
29-7-2017 Saturday	Case study – Specification for a 132 KV Switchboard	Different techniques are used to extinguish the arcincluding Lengthening or deflecting the arcIntensive cooling (in jet chambers	Hands on safety policies in my ecmpany and how they might be improved Test Conduction	6
			Total	30

Conclusion: Certificate course made them comfortable with practical knowledge. Learning style adopted by students, which eventually is developed into a skill of their forte. Through this course, an esstatic learning background paved way to a positive learning environment in the class where active participation was seen from every end. Faculty took the onus of interacting with the students personally to navigate them for the academic transition by becoming the guides by their side

It is a practice of the department to take care of any issues pertaining to the academics. In this connection department of EEE has conveyed meeting with Faculty members to discuss about any lapses with academic activities and felt the need to conduct a cert ficate Course. As part of Certificate course 4 faculty members were identified and assigned duties and responsibilities to carry out the Certificate course.

Principal

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spartment of Electrical & Electronics Engineers. Sapthagiri College of Engineering Bangalore - 560057.



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Department of Electrical & Electronics Engineering

To.

IQAC Coordinator Sapthagiri College of Engineering Bangalore - 560057.

Respected Sir.

Subject: "Budget proposal for conduction of certification program on The Design of External Insulation from Permanent Ac Voltage"

With reference to above subject, I undersigned would like to bring the following for your kind information and consideration. As a part of programming skill development for EEE students, department of Electrical and Electronics Engineering would like to conduct 5 days Certification Course on "The Design Of External Insulation From Permanent Ac Voltage" from 25-Jan-2018 to 31-Jan-2018.

In this regard, I request you to kindly grant permission for the conduction of the course the above specified event for Please grant permission for the sanction of Rs.3940 for the conduction of the above mentioned program and oblige.

Estimated Budget

SI. No.	Item	Quantity	Unit Cost in Rs.	Total cost in Rs.
1	Certificates	98	30	2940
2	Course Mater al and others			1000
Gran	d Total			3940

Thanking You,

Forwarded for G. approved a need by Harour

Dr H.R. Ranganaula

Prof. & H.O.D

Dept. of Information Science & Engg Sapthagiri Ochage of Engine # 14/5 Chikkasanore, Horarashatta Main nuad BUNUALURU-560 057

PROF & HOD Department of Electrical & Electronics Engine

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Department of Electrical & Electronics Engineering

11-01-2018

CIRCULAR

This is to inform that the following Curriculum Board members are requested to attend the meeting on 12/01/2018 at 1.30PM in the HODs chamber to discuss about the certification course.

SI No.	Faculty Name	Designation	Signature
1	Dr. K N Ravi	HOD	Kan
2	Prof. Rekha S N	Associate Professor	Reve
3	Prof. Dhamodaran A	Assistant Professor	Ashor
4	Prof. Ramya M	Assistant Professor	Raray
5	Prof. Swetha G	Assistant Professor	yeer
6	Prof. Ashwini AV	Assistant Professor	A

HOD EEE

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Lapariment of Electrical & Electronics Engineering Septhaght College of Engineering Bangalore - 560057.

Sapthagirl College of Engineering 14/5, Chikkasandre, Hesereghatta Maln Road Bengeluru - 560 057



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Department of Electrical & Electronics Engineering

Date: 11-01-2018

To. Dr Shivakumar Aradya, Professor. Acharya College of Engineering Bangalore-560090,

Respected Sir.

Subject: "Invitation as a "Guest Speaker" in certification program and to attend meeting to discuss about the certification program."

Department of Electrical and Electronics Engineering have planned to conduct a certification program titled "The Design of External Insulation from Permanent Ac Voltage" for EEE students from 25-01-2018 to 31-01-2018. In this connection, we are privileged to invite you as a guest speaker on the above mentioned topic.

Thanking you for your kind acceptance to our request on phone. We request you to attend the meeting to discuss about the conduction of certification ccurse on

12 /01/2018,1.30PM. we look forward to welcome you at SCE.

Principal Sapthagiri College of Engineering 14/5, Chikkasa rcra, Hesaraghatta Main Road Bengalury - 560 057

Thanking you

PROF & HOD Department of Electrical & Electronics Engineering Sapthagiri College of Engineering

HOD, EEE

Bengelore - 580057.



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Department of Electrical & Electronics Engineering

Minutes of Meeting

A meeting was conducted on 12-Jan-2018 in EEE HOD's Chamber to discuss and approve the following about the 5 days Certification Course for EEE Students.

Course Title: "The Design Of External Insulation From Permanent Ac Voltage"

Resource Personnel: Dr Shivakumar Aradya, Professor, Acharya College of Engineering Bangalore-560090,

Course Duration & Date: 5 Days from 25-Jan-2018 to 31-Jan-2018

Course Content

	Course Content :		
Dates	SESSION 1 (9.00am-10.30am)	SESSION 2 (11.00am-12.30pm)	SESSION 3 Hands-on Session (1.00pm-4.00pm)
25-01-2018 Thursday	Introduction Mechanism Of Flashover Under Pollution	Mathematical models Experimentally based AC models	 hands on pollution test methods
27-01-2018 Saturday	Rvey of Experimental Results Influence of the decree of pollution Influence of the geometrical characteristics of the insulator	Influence of contaminant uniformity Influence of contaminant characteristics Solid layer method	 Hands on Laboratory test methods Salt fog method
29-01-2018 Monday	 Statistical approach Semi-statistical approach Deterministic approach 	 Qualitative, service-based approach Influence of non-standard test conditions, 	 Hands on Discussion of the validity of test results
30-01-2018 Tuesday	 Remedies Used In Service To Reduce The Severity Due To Pollution 	Principles of safety rules Principles of personal authorization	Hands on Laboratory test results: test method
31-01-2018 Wednesday	 Influence of the length of the insulator Influence of contamination uniformity Insulator: cap and pin standards 	Influence of the geometrical characteristics of the insulator. solid layer according to 22% relation between 50% flashover voltage and insulator length	Hands on Dynamic arc models and Test Conduction

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Department of Electrical & Electronics Engineering

The following Curriculum board members were present

SI No.	Faculty Name	Designation	Signature
1	Dr. K N Rav	HOD	Store
2	Prof. Rekha S N	Associate Professor	Pak
3	Prof. Dhamodaran A	Assistant Professor	Aslan
4	Prof. Ramya M	Assistant Professor	Parry
5	Prof. Swetha G	Assistant Professor	Lieel
6	Prof. Ashwini AV	Assistant Professor	Mi
7	Dr Shivakumar Aradya	Guest Speaker	Livakumo

HOD, EEE

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Sapthagiri College of Engineering
Bampalore - 560057.

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Bengaluru - 560 057



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Department of Electrical & Electronics Engineering

NOTICE

As a part of programming skill development Department of Electrical and Electronics Engineering is conducting Five days Certification Course "The Design of External Insulation from Permanent Ac Voltage" from 25-Jan-2018 to 31-Jan-2018.

All the EEE students must attend the course compulsorily.

Signature of HOD

PROF & HOD

Department of Electrical & Electronics Engineer' Sapthagiri College of Engineering Eargalore - 560057

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Department of Electrical & Electronics Engineering

Certification Program: "The Design of External Insulation from Permanent Ac Voltage"

Lesson Planner

Dates 25-01-2018	SESSION 1 (9.00am-10.30am)	SESSION 2 (11.00am-12.30pm)	SESSION 3 Hands-on Session (1.00pm-4.00pm)	No. of Hours
Thursday	Introduction Mechanism Of Flashover Under Pollution	AC models	Hands on pollution test	6
27-01-2018 Saturday	Rvey Of Experimental results Influence of the decree of pollution, Influence of the geometrical characteristics of the insulator	contaminant uniformity	Hands on Laboratory test methods Salt fog method	6
29-01-2018 Monday	Statistical approach Semi-statistical approach Deterministic approach	Qualitative, service- based approach Influence of non standard test conditions,	Hands on Discussion of the validity of test results	6
30-01-2018 Tuesday	Remedies Used In Service To Reduce The Severity Due To Pollution	Principles of safety rules Principles of personal authorization	Hands on Laboratory test results: test method	6
1-01-2018 Wednesday	standards	geometrical	Hands on Dynamic are models and Test Conduction	6
otal				30

HOD ,EEE

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Department of Electrical & Electronics Engineering Sapthagki College of Engineering Bengalore - 560057.

Chovakuman QUEST SPEAKER

Principal

Sapthagiri College of Engineering 14/5, Chikkasandra, Hesareghatta Main Road Bengaluru - 560 @57



14/5, Chikkasandra, Hesaraghatta Main Road. Bengaluru-560057

Department of Electrical and Electronics Engineering

5 days Certification Program on

"Design of External Insulation from Permanent AC Voltage"

Students Enrollment

Academic Year(2017-18 Even)

SL.No	USN	Student Name
1	1SG13EE015	CHANDAN KUMAR
2	1SG13FF048	SANDHYA C
3	1SG14E=002	ABHISHEK B REVANKAR
4	1SG14EE005	AMAN KUMAR
5	1SG14EE007	AMRIT RAJ
6	1SG14EE008	ANITHA B
7	1SG14EE010	ANKIT JHA
8	1SG14EE011	ANKIT PRAKASH
9	1SG14EE012	ANKUR JAYARAJ
10	1SG14EE014	ANUSHA T.S.
11	1SG14EF015	ARCHANA S
12	1SG14EE017	ARPITHA M J
13	1SG14EE018	ARVIND B R
14	1SG14EE020	BIJITH K B
15	1SG14EE021	BISHAL KUMAR GUPTHA
16	1SG14EE022	
17	1SG14EE023	CHANDAN KUMAR JAISWAL
18	1SG14EE024	DANAYYA CHANNAYYA
19	1SG14FE025	DILIPM
20	1SG14FF026	DIVYA M
21	1SG14FF027	DIVYANSHU MISHRA
22	1SG14FF028	GANESH KUMAR T.C.
23	1SG14EEC30	HEMALATHA H G
24	1SG14EEC31	
25	1SG14EEC32	JYOTHIM
26	1SG14EE034	KAVYAJR
27	1SG14EE035	KIRAN D
28	1SG14FE037	KRUTHIKA K
29	1SG14EE038	KUSHAL N
30	1SG14EE039	MADHUSHREE S
31	1SG14EE040	MAHESH KUMAR K
32	1SG14EE041	
33	1SG14EE042	MANJUNATH T
34	1SG15FF400	
35	1SG15FF401	ARPITHA B G
36	1SG15EF4C2	ARUN S RAJ
37	18G15EE4C7	DARSHAN R
38	1SG15EE4C8	DEEPIKA H.C.
39	1SG15EE409	DEVARAJA K
40	1SG15EE415	

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Department of Electrical and Electronics Engineering

SL.No	USN	Student Name
11	1SG15EF416	KIRAN KUMAR H
12	1SG15EF4-7	KRISHNA REDDY
43	1SG15=F418	MANJUNATH S
44	1SG15=F419	MANJUNATH R
45	1SG15FF420	MANJUNATH S
46	1SG15EF423	MOUNESH A KAMBAR
47	1SG13FE043	ROHIT RANJAN
48	1SG13FF055	SHASHI KUMAR
49	1SG13FE051	SATYA SUNDAR
50	1SG14EE043	MANOJI M G
51	1SG14FE04¢	MANOJ R
52	1SG14FE045	MEGHANA G V
53	1SG14F=047	MITHUN H V
54		NAVEEN KUMAR SHANKAR
55		
56	1SG14FE050 1SG14FE051	NETHRAVATHI K
57		NIKHIL M G
58	1SG14EE052	PADMINI R
59	1SG14EE053	PALLAVI S
60	1SG14FE054	PAVAN KUMAR D V
61	1SG14EE055	PAVAN KUMAR H D
62	1SG14EE056	PAVITHRA C
63	1SG14EE057	PAVITHRA N.M.
64	1SG14EE058	POORVA H
65	1SG14EE059	PRAGATHLS
66	1SG14EE361	RAKSHITH S
67	1SG14EF062	RAMKUMAR R P
68	1SG14FF064	RANJITHA K
69	1SG14EE065	RAVIKIRAN H
70	1SG14EE066	RITU KUMARI
71	1SG14EEC67	SADAM HUSSAIN K.A.
72	1SG14EE068	SANIYA ANJUM P
73	1SG14EE070	SHILPA H.S.
	1SG14FE072	SNEHA S
74	1SG14EE073	SOWBHAGYA S
75	1SG14EE074	SRINIVAS J
76	1SG14FF075	SUMANRAJ
77	1SG14EE078	SUMATHI G
78	1SG14EE077	SUSHMA R
79	1SG14EE078	SUSHMITHA L
80	1SG14EE0E0	TEJAS S
81	1SG14FE081	UPENDRA R
82	1SG14EE083	VADDIREDDY JAYA SATYA
83	1SG14FE084	VIKRANT KUMAR PANDEY
84	1SG14EE083	ZISHWANATH M
85	1SG15FF424	NAGARAJU H

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SL.No	USN	Student Name
86	1SG15FF425	NAGENDRA R GOUTHAMAS
87	1SG15FF427	NANDEESH C
88	1SG15FF428	NEHA
89	1SG15EE430	PARAMESH H S
90	1SG15EE432	SANDESH R
91	1SG15FF436	SHANTHI PRIYA S J
92	1SG15EE437	SHREEJA T
93	1SG15FF438	SINDHU K P
94	1SG15FF442	SUNII B.G.
95	1SG15FF443	SLSHMA K P
96	1SG15FF444	TE JASH B N
97	1SG15FF448	UMESHA K.S
98	1SG15FF450	VARUN KUMAR G

Program Co oldinator)

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Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057 Department of Electrical and Engineering

5 days Certification Program on

"Design of External Insulation from Permanent AC Voltage"

Attendance

Academic Year:2017-18(EVEN)

SI.	USN	Student Name	25-01	-2018	27-01	-2018	29-01	-2018	30-01	-2018	3	1-01-201	18
No	USN	Student Name	MS	AS	MS	AS	MS	AS	MS	AS	MS	AS	Tes
1	1SG13EE015	CHANDAN KUMAR	1	2	3	4	5	6	2	8	8	9	10
2	1SG13EE048	SANDHYA C	1	2	3	4	5	6	7	8	9	10	11
3	1SG14EE002	ABHISHEK B F EVANKAR	1	1	3	4	5	6	7	8	9	10	11
4	1SG14EE005	AMAN KUMAR	1	2	3	1	5	6	3	8	9	10	11
5	1SG14EE007	AMRIT RAJ	1	1	2	3	1.	5	6	7	8	9	10
6	1SG14EE008	ANITHA B	1	2	3	4	5	6	7	8	9	10	11
7	1SG14EE010	ANKIT JHA	1	L	3	4	5	6	7	8	9	10	11
3	1SG14EE011	ANKIT PRAKAS-I	1	2	3	4	5	6	9	8	9	10	11
9	1SG14EE012	ANKUR JAYAR#J	1	2	3	11	5	5	7	8	9	10	11
10	1SG14EE014	ANUSHA T.S.	1	2	3	1	5	6	7	8	9	10	1/
11	1SG14EE015	ARCHANA S		2	3	3	1.	5	6	3	8	9	0
12	1SG14EE017	ARPITHA M.J.	1	2_	3	3	1	5	6	9	8	9	10
13	1SG14EE018	ARVIND B.R	1	2	3	4	5	6	7	8	9	10	11
14	1SG14EE020	вытн к в	1	1	2	3	1	5	6	7	7	8	9
15	1SG14EE021	BISHAL KUMAR GUPTHA	1	2	3	4	5	6	7	8	9	10	11
16	1SG14EE022	BLESSY PHILIP M	1	2_	3	1	5	6	3	8	9	10	()
17	1SG14EE023	CHANDAN KUMER JAISWAL	1	2	3	1.	T	6	7	8	9	10	11
18	1SG14EE024	DANAYYA CHANNAYYA HIREMAT	1	2.	3	4	5	6	7	8	9	10	11
19	1SG14EE025	DILIPM		2	3	L	5	6	7	8	9	10	10
20	1SG14EE026	DIVYA M	1	2	3	1	6	5		7	8	9	0
21	1SG14EE027	DIVYANSHU MISHRA	1	2	3	14	5	6	7	3	9	10	11
22	1SG14EE028	GANESH KUMAR T.C.	1	2	3	4	1	6	7	8	9	10	1/
23	1SG14EE030	HEMALATHA H G	1	2	3	1.	1	6	3	8	9	10	11
24	1SG14EE031	ISHANI SHARMA	1	2	3	1	5	6	7	8	9	10	11
25	1SG14EE032	JYOTHLM	1	1	3	1	5	6	7	8	9	10	11
26	1SG14EE034	KAVYA J.R.	1	2	3	1	5	6	7	8	9	10	1/
27	1SG14EE035	KIRAN D	1	2	3	1	5	6	7	3	9	10	11
28	1SG14EE037	KRUTHIKA K	1	2	3	L	5	6	7	8	9	10	1)
29	1SG14EE038	KUSHAL N	1	2	3	4	5	6	7	5	9	0	11
30	1SG14EE039	MADHUSHREE S	1	2	3	4	5	3	6	3	7	8	9
31	1SG14EE040	MAHESH KUMAR K	1	2_	3	1.	5	6	7	8	9	-	10
32	1SG14EE041	MANJUNATH	1	2	3	4	5	6	6	7	8	9	10
33	1SG14EE042	MANJUNATH T	1	2	3	1	5	6	6	3	3	19	10
34	1SG15EE400	AKHILESH B R		2	3	3	1,	1	6	3	8	9	10
35	1SG15EE401	ARPITHA B.G	1	2	3	1,	5	6	7	8	90		11
36	1SG15EE402	ARUN S RAJ	1	2	3	Le	5	6	7	8	1	10	1/
37	1SG15EE407	DARSHAN R	1	2	3	4	5	6	7	8	9	10	1/
38	1SG15EE408	DEEPIKA H.C.	1	2	3	4	5	6	7	15	9	10	17
39	1SG15EE409	DEVARAJA K	1	2	9	L	5	6	3-	3	9	10	11
40	1SG15EE415	KEERTHANA A BAYASAR	1	2	3	4	5	6	7	3	9	10	1/
41	1SG15EE416	KIRAN KUMAR H	1	2	3	L	1	6	1	å	9	16	11

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Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057 Department of Electrical and Engineering

SI.	USN	Student Name	25-0	1-2018	27-0	01-2018	29-0	1-2018	30-0	1-2018	1	31-01-20	140
No	0011	Student Name	MS	AS	MS	4.5	MS	AS	MS	AS	MS	AS	Tes
42	1SG15EE417	KEISHNA REDDY	1	2	3	4	5	6	7	8	9	100000	
43	1SG15EE418	MENJUNATH S	1	2	3	4	5	6	7	8	A	10	11
44	1SG15EE419	MANJUNATH R	1	2	3	H	5	6	7	8	9	1	10
45	1SG15EE420	MANJUNATH S		2	3	1	5	6	A	7	8	9	11
46	1SG15EE423	MCUNESH A KAMBAR	1	2	3	4	5	6	1	8	9		1000
47	1SG13FF046	RO-IIT RANJAN	l'	2	3	H	5	6	7	8	9	10	11
48	1SG13EE055	SHASHI KUMAR	11	2	3	1,	5	6	1	7	8	9	11
49	1SG13EE051	SATYA SUNDAR BASUMATARY	1	2	3	4	15	1	7	8	4	100000	10000
50	1SG14EE043	MANOJ M G	1	2	3	L	6	10	17		1	10	17
51	1SG14EE044	MANOJ R	1	2	3	11	15	3,	-6	7	B	9	10
52	1SG14EF045	MEGHANA G V		2	3	17	-		7	8		9	10
53	1SG14EE047	MITHUN H V	i	2	3	1.	1 2	6,	A	8	9	10	1-1
54	1SG14EE048	NAVEEN KUMAR SHANKAR NAIK	1	2	3	1	15	6		3	8	17	10
55	1SG14FE050	NET-IRAVATHI K	1	2	3	1.	5"	6	7	8	9	THE SEC	10
56	1SG14EE051	NIKHIL M G	1	2	3	11	111332	6	3	808	9	(0)	11
57	1SG14EE052	PADMINI R	1	2	3	1	50	6	1		n	10	()
58	1SG14EE053	PALLAVIS	1	2	3	4	5	6	À	8	A	9	10
59	1SG14EE054	PAVAN KUMAR D V	1	2	3		5-	1		2	8	9	10
50	1SG14EE055	PAVAN KUMAR H D	1	2	3	4	5	6	3	8	Ot .	(0	1)
1	1SG14EE056	PAVITHRA C	1	2	3	4	2,	6	7	8	β	0 1	- (1
2	1SG14EE057	PAVITHRA N M	1	2	3		50	6	3	33000	8	iff	9
3	1SG14EE058	POOEVA H	i	2		4		6	7	8	9	(10	4
4	1SG14EE059	PRAGATHI S	1	2	3	4	3"	6	7	8	9	10	11
5	1SG14EE061	RAKS-ITH S	1	2	3	4	5	6	9	A	8	9	10
6	1SG14EE062	RAMKUMAR R P		2	3	14	5	6	3-	8	0	10	11
7	1SG14EE064	RANJITHA K	1	2		4	sr	6	7	8	9	A	10
8	1SG14EE065	RAVIKIRAN H	1	2	3	4	35	6	7	p p	- Coy	10	11
9	1SG14EE066	RITU FUMARI	1	2	3	4	er	A	3		9	9	10
0	1SG14EE067	SADAM HUSSAIN K A	1	2	3	4	2	IT	-	7	-8	9	10
1	1SG14EE068	SANIYA ANJUM P	1	2	3	4	35	6	7	8	9	10	4
2	1SG14EE070		1	H.C.	3	1	5.	6	7	- %	9	10	11
3		SNEHA S	1	2	3	4	Cr.	6	7	8	9	n D	11
4	5-2-2-5	SOWBHAGYA S	1	2	SC07-	1	1	6	2	8	- Cay	A	10
5	1SG14EE074	SRINIVAS J	1	2	3	4	Sr	6	7	8	9	10	11
6		SUMANRAJ	1	2	3	4	sr	6	7		8	0	10
7		SUMAT-II G	1		100	4	Sr	97	至	+	8	9	10
8		SUSHMA R	1	2	3	4	5	6	7	798	9	(0	11
9		SUSHM THA L		2	3	4	Sr	-	7	8	9	(0)	11
0		TEJAS S	1	2	3	4	ST	6	7	8	Og .	(D)	11
1			-		3	4	S	6	7	A	8	A	9
2		UPENDRA R	,	2	3	4	5"	b	7	8	84	10	11
3		VADDIREDDY JAYA SATYA	1	2	3	4	5"	+	6	7	8	ey.	10
1		VIKRANT KUMAR PANDEY	1	2	3	4	5	5	7	8	P	10	11
5		VISHWANATH M	1		3	4	5	6	9	8	9	10	11
,		NAGARAJU H	1	2	3	4	5	6	7	8	H	9	10
	1SG15EE425	NAGENERA R GOUTHAMAS		21	3	4	0	1	7	8	9	10	11

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Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057 Department of Electrical and Engineering

SI.	USN	Student Mame	25-0	1-2018	27-0	1-2018	29-01	1-2018	30-01	-2018	3	1-01-20	18
No	150561	Ctaasiit mame	MS	AS	MS	A.S	MS	AS	MS	AS	MS	AS	Test
88	1SG15EE428	NEHA	1	2	3	4	5	6	7	8	91	10	1000
89	1SG15EE430	PARAMESH F S	1	2	3	4	-	A	6	7	8	9	11
90	1SG15EE432	SANDESH R	1	2	A	3	4	6		7	A	8	10
91	1SG15EE436	SHANTHI PRIMA SUL		2	3		5	1	5	-	9	Calaborate .	1
92	1SG15EE437	SHREEJA T		2	3	4	-	6	4	8	a	10	11
93	1SG15EE438	SINDHU K P		9	3	4	5	6	7	8	9		1/
94	1SG15EE442	SUNIL B G		2	3	4	5	1	6	7	8	10	(1
95	1SG15EE443	SUSHMA K.P.	1	2	3	4	-5	1	The same of	8	8	10	10
96	1SG15EE444	TEJASH B N	1	9	3	4	F	6	7	3	a		1/
97	1SG15EE448	UMESHA K.S.	1	2	3	1	5	0	3	8	9	10	A
98	1SG15EE450	VARUN KUMAP G	ì	A	2	3	4	5	6	9	8	9	/0
		Signature	24		20	22	00	ER		DE	- 20-	nt	RA

Sweetha. Goodinater Perogram Coordinater

PROF & HOD

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Bengaluru - 560 057 Principal



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Department of Electrical & Electronics Engineering

5 days Certification Course on "The Design Of External Insulation

From Permanent Ac Voltage"

Test Time Table

I. o. DATE	DAY	TIMINGS
31-01-2018	Wednesday	4.00PM-5.00PM

HOD, EEE

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Department of Electrical & Electronics Engineering

5 days Certification Course on

"The Design Of External Insulation From Permanent Ac Voltage"

Question Paper

Duration: 1hr

Maximum marks: 20

Answer all the questions

- Q1. Which type of insulator is used on 132 kV transmission lines?
 - a. Pin type.
 - b. Disc type.
 - c. Shackle type.
 - d. Pin and shackle type.
- Q2. Where is the strain type insulators used?
 - a. At dead ends.
 - At any intermediate anchor tower.
 - c. On straight runs.
 - d. Either (a) or (b).
- Q3. Porcelain is produced by firing at high temperature of which all mixtures?
 - a. Kaolin
 - b. Feldspar
 - c. Quartz
 - d. All of these.
- Q4. What is the dielectric strength of porcelain?
 - a. 55 kV/cm.
 - b. 60 kV/cm.
 - c. 75 kV/cm.
 - d. 80 kV/cm.
- Q5. Why is the wavy structure of pin insulators used?
 - a. Increases mechanical strength.
 - b. Increases puncture strength.
 - c. Increases flash over voltage.
 - d. Increases thermal strength.

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Q6. The number of discs in a string of insulators for 400 kV ac overhead transmission line lies in the range of

- a. 32 33
- b.22 23
- c. 15 16
- d. 9-10

Q7. Insulators can be easily charged by

- a. supplying electrons
- b.EMF
- c.friction
- d.protons

Q8.Current cannot flow through an insulator because they have

- a .no free electrons
- b free electrons
- c. no free protons
- d. free neutrons

Q9. Induced charge on insulators

- a. resides on surface
- b. move inside
- c. change into electric current
- d. moves outwards

O10. Value of resistance in insulators is

- a .small
- b. large
- c. zero
- d. cannot be determined

Q11. The string efficiency of the insulator can be increased by

- a. Increasing the number of strings in the insulator
- b. Increasing ratio, capacity to earth/capacity per insulator
- c. Correct grading of the various capacitances
- d. Reducing the number of strirgs

Q12. The dielectric strength of the air barometric pressure of 76 cm and 25°C is

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- a. 30 KV per meter
- b. 21.1 KV r.m.s. per era
- c. 21.1 KV r.m.s. per cm
- d. 21.1 KV per cm

Q13. In case of parallel wires the visual corona begins

- a. At d sruptive critical voltage
- b. At v sual critical voltage which is higher than disruptive critical voltage
- c. At lower voltage than disruptive critical voltage
- d. None of the above

Q14. What is the value of the wave front and the wave tail of the standard lightning impulse wave used in the impulse voltage withstand test?

- a. 50 μ sec and 1.2 μ sec.
- b. 1.2 μ sec and 50 μ sec.
- c. 50 µ sec and 2.1 µ sec.
- d. 2.1 μ sec and 50 μ sec. 15

Q15. At what angle is the water sprayed on the insulator in 50 cycle wet test?

- a. 35 °C
- b. 40 °C
- c. 45 °C
- d. 50 °C

Q16. AC voltage controllers convert

- a. fixed ac to fixed de
- b. variable ac to variable de
- c.fixed ac to variable ac
- d. variable ac to fixed ac

Q17. In AC voltage control ers the

a. variable ac with fixed frequency is obtained b. variable ac with variable frequency is obtained c.variable d2 with fixed frequency is obtained d. variable dc with variable frequency is obtained

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Q18. Earlier then the semiconductor technology,	_ devices were used for
voltage control applications.	_ devices were used for

- a. cycloconverters
- b. vacuum tubes
- c. tap changing transformer
- d. induction machine

Q19. The AC voltage controllers are used in applications.

- a. power generation
- b. electric heating
- c. conveyor belt motion
- d power transmission

Q20. In the principle of phase control

- a. the load is on for some cycles and off for some cycles
- b. control is achieved by adjusting the firing angle of the devices
- c. control is achieved by adjusting the number of on off cycles
- d. control cannot be achieved.

Approved by Academic Committee Members & HOD

SI No.	Faculty Name	Designation	Signature
1	Dr. K N Ravi	HOD	Kon
2	Prof. Rekha S N	Associate Professor	Beh
3	Prof. Dhamodaran A	Assistant Professor	alplan-
4	Prof. Ramya M	Assistant Professor	Panel-
5	Prof. Swetha G	Assistant Professor	1000 =
6	Prof. Ashwini AV	Assistant Professor	N. C.
7	Dr Shivakumar Aradya	Guest Speaker	Dirakomas

PROF & HOD

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Sapthagiri College of Engineering 14/5, Chikkasandra, Hesareghatta Main Road Bengaluru - 560 057



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Department of Electrical & Electronics Engineering

5-days Certification Course on

"The Design Of External Insulation From Permanent Ac Voltage"

Solutions for the Questions

Duration :1hr

Maximum marks :20

Answers

1 b	2 d	3 d	4 b	5 c	6 b	7 c	8 a	9 a	10 b
11 c	12 b	13 Ь	14 c	15 c	16 a	17 b	18 b	19 d	20 c

Approved by Academic Committee Members & HOD

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2	Prof. Rekha S N	Associate Professor	Que
3	Prof. Dhamodaran A	Assistant Professor	Molar
4	Prof. Ramya M	Assistant Professor	V
5	Prof. Swetha G	Assistant Professor	Carry
6	Prof. Ashwini AV	Assistant Professor	100

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Department of Electrical & Electronics E. Sapthagiri College of Engineering Basquions - 560057.

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14/5, Chikkasandra, Hesareghatta Main Road
Bengaluru - 560 057



14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057

Department of Electrical and Electronics Engineering

5 days Certification Course on

"The Design Of External Insulation From Permanent Ac Voltage" Participant Feedback

1.	How was the overall organization of the Certification Course?
	was the overall organization of the Certification Course?

- a) Poor b) Satisfactory c) Good d) Excellent
- 2. How appropriate were the facilities provided?
 - a) Poor b) Satisfactory c) Good d) Excellent
- Opportunity to ask questions for clarification and interaction with presenters
 - a) Poor b) Satisfactory c) Good d) Excellent
- 4. Effectiveness of the Hands-on Sessions
 - a) Poor b) Satisfactory c) Good d) Excellent
- 5. Topic and contents of the Certification Course
 - a) Poor b) Satisfactory c) Good d) Excellent
- 6. How do you rate the Certification Course compared to other workshops that you have attended?
 - a) Poor b) Satisfactory c) Good d) Excellent
- 7. Generally how was your overall experience during the Certification Course
 - a) Poor b) Satisfactory c) Good d) Excellent
- 8. Any Suggestions:

- Test conduction west excelled

Student Name : Jyoth M

13

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14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 957

Student Signature:

1



Department of Electrical and Electronics Engineering

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8. Any Suggestions:
All topics explained so well I understand well
Test conduction was good.
Student Name: S SNEHA Student Signature: PROPHICIPAL PROPRIES PROPHICIPAL PROPRIES PROPHICIPAL PROPRIES 1 Sapibagina Heartshatth Main Roas 1
Saphagili Collage of Engineer 1825 Saphagili Collage of Engineer



SAPTHAGIRI Department of Electrical and Electronics Engineering

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a) Poor b) Satisfactory c) Good d) Excellent
8. Any Suggestions:
topert explaned very vell all the topics
- convall it is nice.
Student Name: Menyunath To Student Signature:

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Department of Electrical and Electronics Engineering

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"The Design Of External Insulation From Permanent Ac Voltage" Participant Feedback

	<u>- www.recuback</u>	
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8.	Any Suggestions:	
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	ne need more conficule course in future	Ī
	The same of the sa	-
,	Student Name: Ankit prakagh Student Signature:	
	Saprinos Unegranhatta mani 1922	1
	14/5, Chikkasandra, Hesaraguru - 560 057	



SAPTHAGIRI Department of Electrical and Electronics Engineering

5 days Certification Course on

"The Design Of External Insulation From Permanent Ac Voltage"

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8. Any Suggestions:
- Overall îtegoad. Topic explained in under stable
manner Test conduction was good.
7002
Student Name: Devaraja Student Signature:
Principal 1
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Department of Electrical & Electronics Engineering

FEEDBACK ANALYSIS

Certification Programme: "The Design of External Insulation from Permanent Ac Voltage"

No. of students participated		Student Fædback					
	Excellent	Very Good	Good	Average			
98	70	15	15	0			



Action Report:

85 % of students were completely happy with the certification program and 10 % of students felt it was a good program and remaining 5 % students were satisf ed with the program.

Action Taken:

The Feedback report which was collected from the students were sent to the principal and he would take necessary actions based on the comments and conduct more programs for the benefit of students.

Program Coordinator

HOD

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Sapthagiri College of Engineering
Bangatore - 560057.

Principal

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HOD, Dept. of EEE

Sapthagiri College of Engineering

Bangalore-560057

Certificate

This is to Certify that Mr./Ms. DIVYA - M 15912	EE026.
OfEEE	has participated
and successfully completed Five days Certification Course on	
Insulation From Permanent AC Voltage" from 25th Jan, 20	
organized by the Department of Electrical & Electronics Engineering	ng, Sapthagiri College
of Engineering.	

Principal
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14/5, Chikkasandra, Hesaraphatta Main Road

Bengaluru - 560 057



Bangalore-560057

Certificate

This is to Certify that Mr./Ms.		
Of	has	participated
and successfully completed Five days Certification Course on	"Design	of External
Insulation From Permanent AC Voltage" from 25th Jan, 20	18 to 31s	t Jan, 2018
organized by the Department of Electrical & Electronics Engineering	ng, Saptha	ngiri College
of Engineering.		

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Bengaluru - 560 057



Bangalore-560057

Certificate

This is to Certify that Mr./Ms	KIRAN D	18914EE	035	
Of			has	participated
and successfully completed Fi	ve days Certifica	tion Course or	"Design	Carried Control of the Control of th
Insulation From Permanent A				
organized by the Department of				
of Engineering.	1	7		
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Department of Electrical & Electronics Engineering

Certificate Course Report

Department of EEE conducted Certificate Course on "The Design of External Insulation from Permanent Ac Voltage".

Guest Speaker: Dr Shiva Kumar Aradya, Professor, Acharya College of Engineering Bangalore-560090.

Duration of the course: five days from Jan 25th 2018 to Jan 31st 2018

Course detail

Objective of the Course: The five day course made the students to be familiar with the this course students will discuss the performance of insulators under polluted condition is a subject of increasing interest in many countries and is, accordingly, an important aspect of the research programme for power engineering. Insulation contamination is found to be a major cause of transmission line outages. Several organizations like CIGRE(Working Group 33.04), IEEE (Working group on Insulator Contamination) have therefore set up permanent working groups to undertake large scale laboratory and field investigations on pollution flashover of insulators, to establish test procedures and to suggest guide lines for the selection of insulators in pollution prone areas.

The course will develop and enhance an understanding of what is involved in the maintenance of these essential components of the power systems, through the tips and tricks learnt and developed by some of the world's pre-eminent electrical engineers. Marine pollution may be found not only in the immediate neighborhood of the sea, but also at considerable distance from the coast, where the effect of strong winds from the sea is fel: 5. Detail safe working procedures in switch rooms, indoor and outdoor substations. Draw up simple operational policies for safety rules

Certificate course made them comfortable with the Design of External Insulation from Permanent Ac Voltage. Learning style adopted by students, which eventually is developed into a skill of their forte. Through this course, an ecstatic learning background paved way to a positive learning environment in the class where active participation was seen from every end. Faculty took the onus of interacting with the students personally to navigate them for the academic transition by becoming the guides by their side

Principal

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Department of Electrical & Electronics Engineering

Schedule of Certification Course

Dates	SESSION 1 (9.00am-10.30am)	SESSION 2 (11.00am-12.30pm)	SESSION 3 Hands-on Session (1.00pm-4.00pm)	No. of Hours
25-01-2018 Thursday	Introduction Mechanism Of Flashover Under Pollution	Mathematical models Experimentally based AC models	Hands or Pollution Test Methods	1
27-01-2018 Saturday	 rvey of experimental results Influence of the decree of pollution Influence of the geometrical characteristics of the insulator 	Influence of contaminant uniformity Influence of contaminant characteristics Solid layer method	 Hands on Laboratory test methods Salt fog method 	0
29-01-2018 Monday	Statistical approach Semi-statistical approach Deterministic approach	Qualitative, service-based approach Influence of non standard test conditions.	Hands on Discussion of the validity of test results	6
30-01-2018 • Tuesday •	Remedies Used In Service To Reduce The Severity Duc Pollution	Principles of safety rules Principles of personal authorization	Hands on Laboratory test results: test method	6
81-01-2018 • Wednesday •	standards	 Influence of the geometrical characteristics of theinsulator. solid layer according to 22% relation between 50% flashover voltage and insulator length 	Hands on Dynamic arc models and Test Conduction	6
			Total	30

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Department of Electrical & Electronics Engineering

Conclusion: Certificate course made them comfortable with practical knowledge. Learning style adopted by students, which eventually is developed into a skill of their forte. Through this course, an ecstatic learning background paved way to a postive learning environment in the class where active participation was seen from every end. Faculty took the cnus of interacting with the students personally to navigate them for the academic transition by becoming the guides by their side

It is a practice of the department to take care of any issues pertaining to the academics. In this connection department of EEE has conveyed meeting with Faculty members to discuss about any lapses with academic activities and felt the need to conduct a certificate Course. As part of Certificate course 4 faculty members were identified and assigned duties and responsibilities to carry out the Certificate course.



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