

Sapthagiri College of Engineering

'(Affiated 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	2017-18		
Branch			
Name of the Student	ARCHANA:	2	
USN	SG14FEO	15	

Rate the curriculum/syllabus on the following Points

SL NO	Statements	Excellent	Very good	Good	Average	Below Average
		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?					
3	Relevance for implementation in projects			FULL		
4	How do you rate the ≘lectives offered in relation to the technological advancements?					
5	How do rate the evaluation scheme designed for each of the course?		1			
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:	NO	Sugges	ENY I BUT	34	they cor	iduet.
lox us	shops)	Centilic 045	on course	· it	will he	helpful
Signature F	Jochen	ها ا			12	_
					Principal	

Sapthagiri College of Engineering 14/5, Chikkasandra, Hasaraghatta Main Road Bengaluru - 580 057



Sapthagiri College of Engineering

'(Affiliated 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	2017-18	
Branch	EEE	
Name of the Student	Devastak	
USN	15919 F 409	

Rate the curriculum/syllabus on the following Points

SL	Statements	Statements		Very	Good	Average	Below Average
NO		100	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?			~			
2	How do you rate the allocation of the credits to the courses?		/				
3	Relevance for implementation in projects				/	19173131	
4	How do you rate the electives offered in relation to the technological advancements?						
5	How do rate the evaluation scheme designed for each of the course?						
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:

Signature Designation

Redund Industrial visit / certified

Principal Sapthaciri College of Engineering 14/5, Chikkasendra, Hesaraghatta Main Read Bengaluru - 563 057



Sapthagiri College of Engineering

(Affiliated 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 concucive 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	2017-18
Branch	PLE
Name of the Student	vishmanath 79
USN	15515 EL686

Rate the curriculum/syllabus on the following Points

SL	Statements	Excellent	very good	Good	Average	Below Average
NO		5	4	3	2	1
1	How do you rate the sy labus of the courses that you have studied in relation to the competencies expected out of the course?		./			
2	How do you rate the allocation of the credits to the courses?					
3	Relevance for implementation in projects		8183			153419
4	How do you rate the electives offered in relation to the technological advancements?					
5	How do rate the evaluation scheme designed for each of the course?					
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:	e ett ticode	Course	2 50P	hay to	andyet	once ma year
Semeste	4				16	

Signature of humby

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



Sapthagiri College of Engineering

'(Affiliated 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	2017-18	
Branch	777	
Name of the Student	Nacharl	loursist rome
USN	ISCILL	D 2 3

Rate the curriculum/syllabus on the following Points

SL	Statements	Excellent	Very good	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?	/				
2	How do you rate the allocation of the credits to the courses?					
3	Relevance for implementation in projects	./			OF TEN	
4	How do you rate the electives offered in relation to the technological advancements?		/			
5	How do rate the evaluation scheme designed for each of the course?	/				
6	How do you rate the percentage of courses having LAB components?		1			
7	Curriculum is sufficient to make you analyze the engineering problems and its suitable solution		/			

Suggestions:

Signature / 10 5000

Sapthaglil College of Engineering 14/5, Chikkasendra, Hesaraghatta Main Road Bengaluru - 580 057



Sapthagiri College of Engineering

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

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	2017-18
Branch	_EEE
Name of the Faculty	Ramya M.
Designation	Assalant Degrandu
Subject/Sub_code	Microcontroller

Rate the curriculum/syllabus on the following Points

SL	Statements	Ex	cellent Food	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					
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 ment oned in the curriculum?			_			
5	The evaluation methods mentioned in the curriculum are suffcient for providing proper assessment?	_	-				
6	Curriculum is suitable to the course	Lit.	_	Jan 1	and,		MATE
7	The curric_lum/course of this subject increased my knowledge and perspective in the subject area			_			

Suggestions: anduthies have to be wested you have understanding of knowledge

Signature P, N.

Principal
Sapthaciri College of Engineering
14/5, Chikkasendra, Hesaraghatta Main Road
Bangaluru - 560 057



Sapthagiri College of Engineering

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

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	2017 -18
Branch	17:
Name of the Faculty	Nardené D.B
Designation	Aget Porol.
Subject/Sub. code	15 F F 5 3

Rate the curriculum/syllabus on the following Points

SL NO	Statements	Excellent	Very good	Good	Average	Below Average
1	Do you feel but t	5	4	3	2	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	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					U. FEN
7	The curriculum/course of this subject increased my knowledge and perspective in the subject area					

Suggestions: Mile perchical Dospoted education he suggisted.

Signature ADB

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



Sapthagiri College of Engineering

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

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	2017-18
Branch	EEE
Name of the Faculty	Achinara
Designation	Ard Prou
Subject/Sub. code	Ruhlable Energy Sources

Rate the curriculum/syllabus on the following Points

SL	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?	~				
2	Is the curriculum suffcient to bridge the gap betweer 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 sufficient for providing proper assessment?	<i>ب</i>				
6	Curriculum is suitable to the course		7		i (mario	11.04
7	The curriculum/course of this subject increased my knowledge and perspective in the subject area					

Suggestions: of they	conduct	mou to	dustral	unit	move	prodical.
samedout they samedout hisely Signature Admin Az			Rindul	rial	Whit	who to be.
Signature Admin At	z				1	->

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



Sapthagiri College of Engineering

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

FACULTY FEEDBACK ON CURRICULUM

This quest contains 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	18n17-18.
Branch	1.00
Name of the Faculty	& Mu. R. Rukmongada
Designation	AND Digenon
Subject/Sub. code	op ampa and him an interpolat abla

Rate the curriculum/syllabus on the following Points

SL	Statements		Statements		ellent	Very gccd	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 sufficient to bridge the gap between incusary standards /current global scenarios and academics?			_					
3	Is the timely 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 sufficient for providing proper assessment?								
6	Curriculum is saitable to the course	PU		-					
7	The curriculum/course of this subject increased my knowledge and perspective in the subject area								

to in conducted it will he
15
Sapthagiri Ceffege of Engineering 14/E, Chlkkasardia, Hesaragratta Main Road Bengaluru - 550 657



Sapthagiri College of Engineering

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

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 suggest one 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	2017
Branch	Electrical & Electronics Emineering
Name	Shanu
Status : Work/Study	Work
Phone no	7259506346

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	V				
6	Ability to link theory to practice	/			D. Hall	iinnii
7	How do you rate the course/curriculum content that you have learn: in relation to your current job	~				
8	Compatibility with industry standards	/			\cap	

Suggestions:

More practicals & less theory

Sapthagiri College of Engineering 14/5, Chikksendre, Heersghatte Main Road Bengatuju - 560 057

Signature



Sapthagiri College of Engineering

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

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 suggest ons 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	2017
Branch	Electronics Engineering
Name	Show Ragi Jaya
Status : Work/Study	Work
Phone no	9066960223

Rate the curriculum/syllabus on the following Points

SL	SL NO Statements		el ent	Very good	Good 3	Average	Below Average
NO			5	4		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	1	/				
4	How do you rate the learning experience in terms of their relevance to the real life application	V					
5	Ability to work in teams	V	1				
6	Ability to link theory to practice	L	/				
7	How do you rate the course/curriculum content that you have learnt in relation to your current job	~	1				
8	Compatibility with industry standards	λ	1				

Suggestions:

More praeffeals & lew theon

Signature

13



Sapthagiri College of Engineering

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

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	2017
Branch	EFF
Name	Pallavi Megundan
Status : Work/Study	ICICI BANK.
Phone no	7829712587

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	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					Hill
5	Ability to work in teams		10.0		21 H 31 ET	
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					
8	Compatibility with industry standards					

Suggestions: Syllanus, hos to be revised in exconing
year indesheal wait Internation for to be
Signature Pallant Amplene deed Internation

Sapihagiri College of Engineering 1475, Chikkasandre, Hasa aghate Mate Non-Bengaluru (200 os)



Sapthagiri College of Engineering

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

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	2017
Branch	EEE
Name	Promya M
Status : Work/Study	INTEL
Phone no	88 61530 703

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	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	V				
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-		ETT	PERMIT	51/11/0
6	Ability to link theory to practice		1-			1 1 1
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:	mene want	in A D.	walapment	coll ha
to be det on	in each	L callege	mogle n	rendovar.
Suggestions: Edges folk Suf of Signature & M	be unive	enaily of	12	> 1009

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



(Affiliated to Visvesvaraya Technological University, Belagavi& Approved by AICTE, New Delhi) #14/5, Ch Hkasandra, Hesaraghatta Main Road, Bengaluru – 560057 Phone:080-28372800/1/2 www.sapthagiri.edu.in Fax: 080-2837279

Department of Electrical & Electronics Engineering

25-05-2018

CIRCULAR

This is to inform that the following Curriculum Board members are requested to attend the meeting on 26/05/2018 at 10.30AM in the HODs chamber to discuss about the analyzing of curriculum syllabus of academic year 2018-19.

SI No.	Faculty Name	Designation	Signature
1	Dr. K N Ravi	HOD	fors
2	Prof. Rekha S N	Associate Professor	Per
3	Prof. Dhamodaran A	Assistant Professor	Mora
4	Prof. Mahavishnu K. B P	Assistant Professor	A River
5	Prof. Bharath B N	Assistant Professor	8AAMS.
6	Prof. Shivaraj A	Assistant Professor	Der NI

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

HOD EEE PROF & HOD

Department of Electrical & Electronics Engine Sapthagiri College of Engineering Bangatore - 580057.



(Affiliated to Visvesvaraya Technological University, Belagavi& Approved by AICTE, New Delhi)
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057
Phone:080-28372800/1/2 www.sapthagirl.edu.ln Fax: 080-28372797

Department of Electrical & Electronics Engineering

Minutes of Meeting

With reference to above circular dated 25.05.2018 the curriculum board members assembled in HODs chamber for the following agenda.

AGENDA:

- Reviewing the department curriculum syllabus of academic year 2018-19.
- Reviewing the feedback analysis of various stakeholders for the academic year 2017-18.
- 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	Loi
2	Prof. Rekha SN	Associate Professor	Rel
3	Prof. Dhamodaran A	Assistant Professor	Down
4	Prof. Mahavishnu K B P	Assistant Professor	Julian
5	Prof. Bharath B N	Assistant Professor	BAALME
6	Prof. Shivaraj A	Assistant Professor	Brough.

Principal
Sapthagiri College of Engineering
14/5, Ghikkasandra, Heraraghatta Main Road
Bangaluru - 560 057



(Affiliated to Visvesvaraya Technological University, Belagavi& Approved by AICTE, New Delhi) #14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru - 56005?

www.sapthagiri.edu.in

Fax: C8C-28372797

Department of Electrical & Electronics Engineering

SI No.	SEM	Course Title	Identified Gap
1	V	Switch gear and Protection	Lack of knowledge about protection of different network
2	VI	High Voltage Engineering	Lack of knowledge about high voltage insulation in power system equipment

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' alumir i and analysis of syllabus by academic committee members it was decided to conduct certification course on "Protection of Electrical Network" and "Condition and assessment of High Voltage insulation in power system equipment" to zvercome the gaps identified in the curriculum/syllabus.

Sl No.	Faculty Name	Designation	Signature
1	Dr. K N Ravi	HOD	Kod
2	Prof. Rekha S N	Associate Professor	Gare
3	Prof. Daamodaran A	Assistant Professor	Lolow
4	Prof. Mahavishnu K B P	Assistant Professor	A Rue
5	Prof. Bharath B N	Assistant Professor	BALLUB
6	Prof. Shivaraj A	Assistant Professor	Arry 1

HOD, EEE

PROF & HOD

Department of Electrical & Electronics Engineering Sapthagiri College of Engineering

Bangatora - 560057.

Principa

Sap:hagiri College of Engineering 14/5, Chikkasandra, Hesaraghatta Main Road

Bengaluru - 560 057



(Affiliated to Visvesvaraya Technological University, Belagavi& Approved by AICTE, New Delh.) #14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057 Phone:080-28372300/1/2 www.sapthagiri.edu.in Fax: 080-2837279

Department of Electrical & Electronics Engineering

To.

IQAC Coorcinator Sapthagiri College of Engineering Bangalore - 560057.

Respected Sir,

Subject: "Budget proposal for conduction of certification program Condition and assessment of High Voltage insulation in power system equipment"

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 "Protection of Electrical Network" from 23-Jul-2018 to 27-Jul-2018.

In this regard, I request you to k ndly grant permission for the conduction of the course the above specified event for Please grant permission for the sanction of Rs.4420 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	121	20	2420
2	Course Material			2000
Grai	nd Total			4420

Rowaled for Ca. 2, approved a need by

Cell of Household Science A Engineer in Sapthagis Commission Saraghatta Materials with South Saraghatta Materials and Action Commission Commiss

HOD

PROF & HOD

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

Principal

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



(Affiliated to Visvesvaraya Technological University, Belagavi& Approved by AICTE, New Delhi) #14/5, Chikkasar dra, Hesaraghatta Main Road, Bengaluru - 560057 Phone:080-28372800/1/2 www.sapthagiri.edu.in Fax: 080-28372797

Department of Electrical & Electronics Engineering

To

Date: 29.05.2018

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 meeting was held for analyzing department curriculum/syllabus for the academic year 2018-19. 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 "Protection of Electrical Network" for the academic year 2018-19.So I request you to forward and get the approval from governing council for the same.

Thanking you,

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

Formonded for G. C. approved a need but

Heran Dr H.R. Ranganatha

Prof. & H.C.D

Dent.of Information Science & Engg College of Engineering

rara, Ha E-1 - 45KU-21 - -4 \$ 1410 m

HOD.EEE

PROF & HOD Department of Electrical & Electronics Engineeri-Septhagin College of Engineering Bangalore - 560057.



(Affiliated to Visveskaraya Technological University, Belagavi& Approved by AICTE, New Delhi) #14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560057 Phone:080-28372800/1/2 www.sapthagiri.edu.in Fax: 080-28372797

Department of Electrical & Electronics Engineering

Date: 05/07/2018

CIRCULAR

This is to inform that the following Curriculum Board members are requested to attend the meeting on 06/07/2018 at 2.30PM in the HODs chamber to discuss about the certification course.

Sl No.	Faculty Name	Designation	Signature
1	Dr. K N Ravi	HOD	Kan
2	Frof. Rekha S N	Associate Professor	Pere
3	Prof. Dhamodaran A	Assistant Professor	Som
4	Prof. Mahavishnu K B P	Assistant Professor	ATTUR
5	Prof. Bharath B N	Assistant Professor	DAHLIB
6	Prof. Shivaraj A	Assistant Professor	85-ma'

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

HOD EEE

PROF & HOD

Department of Electrical & Electronics Engineering Sapanagiri College of Engineering Sangalore - 560057.



(Affiliatec to Visvesva-aya Technological University, Belagavi& Approved by AICTE, New Delhi)
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057
Phone:080-28372800/1/2 www.sapthagiri.edu.in Fax: 083-28372

Department of Electrical & Electronics Engineering

Datz: 05-07-2018

To,

Prof. Leela AM
Associate Professor,
Department of EEE,
Acharaya Institute of technology
Bangalore - 560057.

Respected Sir,

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

Department of Electrical & Electronics Engineering have planned to conduct a certification program titled "Protection of Electrical Network" for the EEE students from 23-07-2018 to 27-07-2018. 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 course on 06/07/2018,2.3CPM We look forward to welcome you at SCE.

Thanking you

Yours faithfully

Principal
Sapthagiri College of Engineering
14/5, Ch kkasandra, Hesareghatta Main Road
Bengaluru - 560 057

HOD EEE

PROF & HOD

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



(Affiliated to Visvesvaraya Technological University, Belagavi& Approved by CICTE, New Delh.)
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057
Phone:080-28372300/1/2 www.sapthagiri.edu.in Fax: 080-28372797

Department of Electrical & Electronics Engineering

Minutes of Meeting

A meeting was conducted on 06-Jul-2018 in EEE HOD's Chamber to discuss and approve the following about the 5 days Certification Course for EEE Students.

- · Course Title: "Protection Of Electrical Network"
- Resource Personnel: Prof. Leela AM, Assoc Professor, Dept of EEE, Accataya Institute of technology, Bengaluru.
- Course Duration & Date: 5 Days from 23-Jul-2018 to 27-Jul-2018.
- · Course Content

Dates	SESSION 1 (9.00am-10.30am)	SESSION 2 (11.00am-12.30pm)	SESSION 3 Hands-on Session (1.30pm-4.30pm)
23-7-2018 Monday	Network Structures General structure of the private distribution network The supply source	MV power supply Different MV service connections supply modes HV consumer substations	Hands on Network Structures examples
24-7-2018 Tuesday	MV consumer substations MV networks inside the site MV switchboard power supply modes	MV network structures. LV networks inside the site LV switchboard	Hands on Collections at MV and LV switch board
25-7-2018 Wednesday	Earthing Systems Earthing systems at low voltage. Different earthing systems definition and arrangements Unearthed or impedance-earthec neutral	Directly earthed neutral (TT system) Connecting the exposed conductive parts to the neutral	Hands on Earthing handling and Connections
26-7-2018 Thursday	Protection of Network Elements Network protection Earth fault requirements for networks earthed via a limiting Protection against earth faults	Network with two parallel incoming feeders Protection against earth faults Network with two looped incoming feeders	Hands-on Protection of Network Elements
27-7-2018 Friday	Examples of motor protection. Motor protection setting indications Protection of low voltage asynchronous motors AC generator protection	Specific protection against earth faults Switch-fuse protection Circuit-breaker protection Examples of transformer protection	Hands on Switch- fuse protection Circuit-breaker protection. Test Conduction

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



(Affiliated to Visvesvaraya Technological University, Belagavi& Approved by AICTE, New Delhi)
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057
Phone:080-28372800/1/2 www.sapthagiri.edu.in Fax: 080-28372797

Department of Electrical & Electronics Engineering

The following Curriculam board members were present

SI No.	Faculty Name	Designation	Signature
1	Dr. K N Ravi	HOD	Kron
2	Prof. Rekha S N	Associate Professor	Pak
3	Prof. Dhamodaran A	Assistant Professor	Aphan
4	Prof. Mahavishnu KBP	Assistant Professor	- FRANCE
5	Prof. Bhareth B N	Assistant Professor	RATUB.
6	Prof. Shivaraj A	Assistant Professor	SerA.
7	Prof. Leela AM	Guest Speaker	Lacla

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

HOD ,EEE

PROF & HOD

Department of Electrical & Electronics Engineering
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
Phone:080-28372800/1/2 www.sapthagiri.edu.in Fax: 08C-28372797

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 on "Protection of Electrical Network" from 23-July-2018 to 27-July-2018

All the EEE students must attend the course compulsorily.

Signature of HOD

PROF & HOD

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

Principal

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



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

Phone:080-28372800/1/2

www.sapthagiri.edu.in

Fax: C80-28372797

Department of Electrical & Electronics Engineering

Certification Program: Protection of Electrical Networks

Lesson Plan

Dates	SESSION 1 (9.00am-10.30am)	SESSION 2 (11.00am-12.30pm)	SESSION 3 Hands-on Session (1.30pm-4.30pm)	No. of Hours
23-7-2018 Moncay	Network Structures General structure of the private distribution network The supply source	 MV power supply Different MV service connections supply modes HV consumer substations 	Hands on Network Structures Examples	6
24-7-2018 Tuesday	MV consumer substations MV networks inside the site MV switchboard power supply modes	MV network structures. LV networks inside the site LV switchboard	Hands on Collections at MV and LV switch board	6
25-7-2018 Wednesday	Earthing Systems Earthing systems at low voltage. Different earthing systems – definition and arrangements Unearthed	Directly earthed neutral (TT system) Connecting the exposed conductive parts to the neutral	Hands on Earthing handling and Connections	6
26-7-2018 Thurscay	Protection of Network Elements Network protection Earth fault requirements for networks earthed via a limiting Protection against earth faults	Network with two parallel incoming feeders Protection against earth faults Network with two looped incoming feeders	Hands on Protection of Network Elements	6
27-7-2018 Friday	Examples of motor protection. Motor protection setting indications Protection of low voltage asynchronous motors AC generator protection	Specific protection against earth faults Switch-fuse protection Circuit breaker protection Examples of transformer protection	Switch-fuse protection Circuit-breaker	6
			Total	30

PROF & HOD

Department of Electrical & Electronics Engineering Septhagin College of Engineering Bangators - 550057. GUEST SPEAKER

Principal

Sapthagiri College of Engineering 14/5, Chikkasandra, Heeareghatta Main Road Bengaluru - 58) C57



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

5 days Certification Program on "Protection of Electrical Network"

Students Enrollment Academic Year (2018-19 Odd)

SL.No	USN	Student Name
1	1SG16EE00	1 A R GOUTAM
2	1SG16FE004	
3	1SG16EE005	Section 1997 Control of the Control
4	1SG16EE006	- CALLEY
5	1SG16FE007	THE PARTY IN THE P
6	1SG16EF008	
7.	1SG16EE009	THE PARTY OF THE P
8	1SG16FF010	The state of the s
9	1SG16FE011	
10	1SG16FE012	
11	1SG16FE013	The state of the s
12	1SG16FF014	The state of the s
13	1SG16EE015	COLUMN COLUMN LA
14	1SG16FE016	
15	1SG16FF017	TA IA
16	1SG16EE018	The state of the s
17	1SG16FF019	BHOOMIKA VASANTH
18	1SG16FF020	BLBLAYESHA S
19	1SG16FF022	
20		
21	1SG16FF023	CHIRAG S
22	1SG16FF024	DEFPA T.S
23	1SG16FF025	DHANUSH S
24	1SG16FE026	DIXITH R
25	1SG16FF027	FAIZA FATHIMA A
26	1SG16EF029	GAGAN H.J
7	1SG16FF030	GAGAN KUMAR GANDELK
8	1SG16FF031	GAGANA R
9	1SG16FE032	GANAVI.C.A
0	1SG16FF033	GOUTHAMI K
1		HARSHITHA C GCWDA
2	1SG16FE035	HARSHITHA N
3	Orthodoxia Music Report From the Control of the Con	HEMA S
4	1SG16FF037	JEEVAN KUMAR 5
	1SG16EF038	JYOTHL GADED
	LSG16FF039	K KARTHIK DUREY
- 1		KALA N
	SG16EF042	KAVYA B P
1		KAVYA SHREE R
1	4.00	KAVYASHREE S
1	CHI	KUSUMA H
1	and the second second second second	M MONICA

Principal

Sapthagiri College of Engineering 145, Chikkasandra, Hesaraghatta Main Road Bengaluru - 560 057



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

Department of Electrical and Electronics Engineering

SL.No	USN	Student Name
42	1SG16EE049	MADHUKAR K
43	1SG16FE051	
44	1SG16FF053	MANJUNATH T
45	1SG16EE054	
46	1SG16EE055	
47	1SG16FF057	
48	1SG16EE111	GEETHA B N
49	1SG15EE446	THYAGARAJU H.F.
50	1SG16EE416	SRIKANTH K
51	1SG17FE400	ANIL KUMAR G
52	1SG17EE402	CHAITHRA T
53	1SG17EE405	DILIPGOWDA R N
54	1SG17FF406	DILIP CHAKRAVARTHI V
55	1SG17EE407	H K ANII
€6	1SG17EE407	
E7	1SG17EE409	KISHORE KUMAR B G
58	1SG16FF402	MANOJ
59	1SG16FF406	- SELICITIES OF CHESTON CONTROL CONTROL
50	1SG16EE433	ANILKUMAR
31		NIRANJAN K
32	1SG16EE440	RAKSHATH C.U
33	1SG16EF441	RIJJU.H
34	1SG16FF452	YASHWANTH
5	1SG16EE058	NEHA TOMAR
6	1SG16FF059	NIKHIL NINGOUDA PATIL
7	1SG16EE060	NIKHIL TOMAR
8	1SG16EE061	NIKITHA K
9	1SG16EE062	NIRANJAN K B
0	1SG16EE063	NIROSHA H V
1	1SG16EE064	NISHANTH M G
2	1SG16EE065	PAVITHRA G
3		PAVITHRA R
4		POOVAIAH M K
5	1	PRAJWAL S
6	Commence of the Commence of th	PRAKRUTHI JAIN Y S
-	CAST CONTRACT CONTRAC	PRASHANTH NAYAKA T
3	1SG16FE071	PRAVEEN.J
		PUNEFTH N
	1SG16EE073	RAJESH YADAV
	1SG16EE074	RAKESH G
	1SG16EE075	REVAN KUMAR G K
	1SG16EE078	S.MANISH
1	1SG16EE079	SANGMESH
	1SG16EF081	SANTOSH KUMAR K.S
		SATYENDRA KUMAR YADA

Sapthagir College of Engineering 14/5, Chikkaserdra, Hesaraghatta Main Road Bengaluru - 560 057



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

Department of Electrical and Electronics Engineering

SL.No	USN	Student Name
86	1SG16FF08	
87	1SG16FF08	THE COURT AND
88	1SG16EE083	SCHOOL STATE OF THE STATE OF TH
89	1SG16EF088	10000000
90	1SG16EE089	CONTRACTION OF THE PROPERTY OF
91	1SG16EF091	- Control of the cont
92	1SG16EE093	THE AUTHOR
93	1SG16EE095	THE THE PARTY OF T
94	1SG16EE096	The state of the s
95		- COLORGIA III II II
96	1SG16EE097	- COLONIAL INC.
97	1SG16FF098	The state of the s
98	1SG16EE099	SWATHI B
99	1SG16EE100	VANDANA M
100	1SG16FF101	VANDANA RAO J
101	1SG16FF102	VANLV N
102	1SG16FF104	VIJESH V
103	1SG16FE105	VIKHYAT S DESAI
104	1SG16EE106	VINAYUC
05	1SG16EF107	YASHAS B
06	1SG16EE108	YASHASWINLS
07	1SG16FE110	YESHAS C.V.SWAMY
08	1SG17EF413	NARENDRA B
09	1SG17FF416	NITESH ANIL KOTHAKAR
10	1SG17FF417	POOJA C
11	1SG17EF419	PRAVEEN S
12	1SG17FF420	SHARATH KUMAR R
13	1SG17EE421	SHIVAMANIM
14	1SG17EE422	TEJASWINI R
15	1SG17FF424	THYAGARAJU K H
	1SG16EE437	RAKESH
6	ISG15EE447	SUPRITH
/	LSG15EE074	RAMYA P
8	SG15EE048	MANJULA.S
9 1	SG15EE052	MEGHANA N
0 1	SG16EE410	DAKSHINAMURTHY
1	SG16EE425	MANJUNATH GOWDA

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

PROF & HOD Designated Electrical & Electronics

Bangulore - 580057



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

5 days Certification Program on "Protection of Electrical Network"

Attendance

SI.	USN	Student Name	23-07	-2018	24-07	-2018	25-07	-2018	26-07	-2018	27-07-	2018	
No	USN	Stucent Name	MS	AS	MS	AS	MS	AS	MS	AS	MS	AS	Tes
1	1SG16EE001	A R GOUTAN	1	2_	3	4	C-	6	7	8	0	10	11
2	1SG16EE004	ABHISHESS	1	2	3	4	5	6	7	8	9	10	11
3	1SG16EE005	ADARSH <	1	2	3	4	5	P	6	+	8	q	1:
4	1SG16EE006	AISHWARYA RAVI	1	2	3	4	5	6	7	8	A	9	11
5	1SG16EE007	AISHWAR/AS	1	2	3	4	5	G	7	8	9	10	11
6	1SG16EE008	AMITH SURAL	17	1	2	3	1	5	6	7	8	9	10
7	1SG16EE009	ANANYA >	1	2_	3	4	5	6	7	8	9	10	11
8	1SG16FE010	ANJU P	P	2	30	4	6	6	4	8	9	A	10
9	1SG16EE011	ANUSHA N.S.	1	7—	3	4	A	150	6	7	8	64	10
10	1SG16EE012	ARPITHA G	1	2	3	4	5	A	6	7		9	10
11	1SG16EE013	ARPITHA F		2	.3	4	5	6	7	8	A	10	1
12	1SG16EE014	ASHFACUE A-IMED		2	3	4	A	5	6	8	8	9	13
13	1SG16EE015	ASHWINI N	1	2	3	Le	5	6	7	8	9	10	- 1
14	1SG16EE016	BHANU PEATAP YADAV	1	A	2	3	4	5	6	4	8	9	11
15	1SG16EE017	BHAVYA V		2	3	4	5	6	7	A	8	90	11
16	1SG16EE018	BHOOMI⊀A VASANTH	1	2	3	H	6	6	7	8	9	10	11
17	1SG16EE019	BI BLAYESHA'S	1	2	3	4	5	1	5	7	8	9	18
18	1SG16EE020	CHANDAN S.R.	i	2	3	A	5	6	7	8	9	10	1
19	1SG16EE022	CHIDANANDA C	1	A	2	3	4	5	6,	7	8	9	1
20	1SG16EE023	CHIRAG S	1	2	3	4	5	6	7	8	9	10	11
21	1SG16FE024	DEEPA T S	1	2	3	H	5	6	7	8	9	10	1
22	1SG16FF025	DHANUS-IS		A	2	3	4	5	6	7	8	9	10
23	1SG16EE026	DIXITH R	1	2	3	4	5	6	7	8	A	9	31
24	1SG16EE027	FAIZA FATHIMA A	1	2	3	4	5	A	6	7	8	9	1
25	1SG16EE029	GAGAN F.J	1	2	3	4	5	6	7	8	9	10	1
26	1SG16EE030	GAGAN KUMAR GANDHI K		2	3	4	5	6	×	8	9	10	1
27	1SG16FE031	GAGANA R	A	1	9	3	4	5	6	7	8	9	1
28	1SG16EE032	GANAVI C.A.	1	2	3	4	5	6	7	8	9	10	1
29	1SG16EE033	GOUTHAM &	1	2	A	43	4	5	6	A	7	8	C
30	1SG16EE034	HARSHITHA C GOWDA	1	2	3	4	5	6	7	8	9	10	1
31	1SG16EE035	HARSHITHA N	1	2	3	u	5	0	*	8	90	10	17
32	1SG16EE036	HEMA S	1	2	3	4	6	A	6	9	8	9	11
33	1SG16EE037	JEEVAN KUMAR R	1	A-	3	20	4	5	6	7	-	A	9
34	*SG16FE038		1	2	3	H	4	6	7	8	9	10	10
35	*SG16EE039	K KARTHIK DUBEY	1	2-	3	4	5	5	7	8	9	10	11
36	*SG16FE040	KALAN	1	2	3	4	65	5	7	8	9	10	11
37	1SG16EE042	KAVYA B P	1	A	2	4	5	6	8	8	9	10	11
38	1SG16EE043	KAVYA SHREE 3		2-	3	4	5	A	8	1	8	9	10
39	1SG16EE044	KAVYASHEFF 5	1	2-	3	4		5	7	8	9	A	11
40	1SG16FE047		1	2	3	4	5	£	7	8	9	10	1
41	1SG16EE048	M MONICA	1	A	2-	4	5	(E)	7	8	9	10	1
42	1SG16FE049	MADHUKAR C	1	2-	3	4	5	6	A	7	8	9	10
43	*SG16EE051		1	2	3	1	15	18	#	8	9	10	A

Principa
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 550 057



Sapthagiri College of Engineering 14.5. Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057 Department of Electrical and Engineering

SI. LON		Ctudent Name		-2018	24-07	-2018	018 25-0*-2018		8 26-07-2018		27-07-2018		
No	USN	Student Name	MS	AS	MS	AS	MS	AS	VIS	AS	MS	AS	Test
44	1SG16EE053	MAN IL NATH T		2	3	4	5	6	7	8	9	10	11
45	1SG16FF054	MCNISA N	1	2	3	4	5	6	7	8	9	10	11
46	1SG16EE055	MCUNA M	A-	1	2	3	4	5	7	6	7-	8	9
47	1SG16EE057	NANCA KUMAR J		2	3	4	5	6	7-	8	9	10	11
48	1SG16EE111	GEFT-A B.N.	1	2	3	4	3	6	7	8	9	10	11
49	1SG15FF446	THYAGARAJU H.R	1	2	3	4	5	6	7	8	9	10	11
50	1SG16FE416	SRIKANTH K		2	8	4	5	6	7-	8	9	10	11
51	1SG17EE400	ANIL KUMAR G	T.	2	3	4	5	6	7	A	8	9	10
52	1SG*7EE402	CHA THEA T	1	A	2-	3	H	4	5	6	7	8	9
53	1SG*7EE405	DILIPEOWDA R.N.	1	2	3	4	5	6	7	8	9	10	11
54	1SG 7EE408	DILIP CHAKRAVARTHI V	1	2	3	4	5	6	7	8	91	10	11
55	1SG 7EE407	H E ANI	1	2	-3	a	0	6	7	8	9	10	11
56	1SG-7EE409	KISHORE KUMAR B.G.	1	2	3	4	5	6	7	2	9	10	11
57	1SG 7EE409	MANO!	1	7	3	4	5	6	A	7-	8	9	10
58		ABHISHEK GOWDA DN	1	7	3	4	5	6	7	8	9	10	11
59	1SG16EE402	N. W. and Phys. Co. B. C. B. C	1	h	2	3	A	5	6	7	2	9	10
60	1SG16EE406	ANILKUMAR		12	3	4	É	6	9	8	9	10	21
61	1SG16EE433	NIRA-LIPA K		A	7	2,	4	5	6	7	8	9	10
62	1SG16EE440	RAKSHAT + C.U	1		2	4	5	6	2-	h	8	9	10
63	1SG16EE441	RIJI H		2	3	4	6	6	7	8	9	10	14
64	1SG16EE452	YASHWANTH	1	2	3	4	IA	5	6	7	8	9	10
65	1SG16EE058	NEHA TOMAR	1	2_	3	4	5	6	7	8	0	10	11
66	1SG16EE059	NIKH L NINGOUDA PATIL	A-	1	2	3	4	5	6	7	8	9	10
67	1SG16FE060	NIKH L TCMAR		2	3	4	5	6	7	8	9	10	11
68	1SG16EE061	NIKITHA K	1	7	3	4	5	6	7	8	9	10	11
69	1SG16EE062	NIRANJAN K.B.	1	2	1.3	A	5	6	7	8	9	10	11
70	1SG16EE063	NIRCSHA H V	1	2	3	4	5	6	7	A	8	9	10
71	1SG16EE064	NISHANTH M.G	1	A	12-	2	a	5	6	7	8	9	10
72	1SG16EE065	FAVITHRAG	1	2	3	4	5	6	7	8	9	10	11
73	1SG16EE066	PAVITHRA E		2	3	A	S	6	7	8	9	10	11
-	1SG16EE067	POOVAIA + M.K.	1	0	3	4	5	6	7	6	9	10	11
74	1SG16EE068	PRAJWALS	1	A	2	3	A	A	5	6	7	3	9
76	1SG16EE069	PRAKRUTHI JAIN Y S	1	7	3	4		6	1	8	9	10	u
77	1SG16EE070	and the second s	1	12	3		5	6	1	8	0	10	1
78	1SG16EE071		10	12	3	-		6	2	8	q	10	11
79	1SG16EE072		1	2	A	3	4	5	1000	7	8	9	L
-	1SG 16EE073		1	7	3		6		C. P. A. S. C.	8	a	10	1
80	1SG16EE074		1	1	1500	900	S	7.50	7	8 A	- 8	9	1
81	1SG16EE075		,	2	31 000			11.0	7		9	10	1
82	1SG16EE078		1	2		-		100000	9	8	9	10	1.5
83	1SG16EE079			7	N			-	6		8	9	1
84	1SG16FF081	SANTOSH KUMAR K.S.	1	2		4		6	F	8	9	10	
85	1SG16EE083		1	1	100000		15	CT -	7-	- P.	A	9	1
86	1SG16EE084		1	TA		2	1	5		7	8	9	1
87	1SG18EE085		1	7	3			6		92	9	10	1
88	1SG16EE087	SHVA PRASAD G	-	1 2	1	- /	1 8	6		2	4	1	1

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



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

SI.	USN	Student Name	23-07	7-2018	24-07	-2018	25-07	7-2018	26-07-2018		27-07	-2018	
No	USIN	Student Name	MS	AS	MS	AS	MS	AS	MS	AS	MS	AS	Test
90	1SG16EE089	SHUBHA S	1	2	3	B	5	6	1	8	9	10	11
91	1SG16EE091	SHWETA S HIREKUMBI	1	-2	3	14	5	6	1	A	2	9	10
92	1SG16FE093	SOWMYA S	1	2	3	A	2	5	6	7	8	9	10
93	1SG16EE095	SRINIVAS N	A	1	2	3	1500	5	6	1	8	9	10
94	1SG16EE096	SRUSHTI B R	1	2	3	3	4	A	6	16	8	2	90
95	1SG16EE097	SRUSHTI K	1	2-	3	4	5	6	7	8	8	9	10
96	1SG16FE098	SUSHMA G R	1	A	2	20	4	5	6	7	8	9	10
97	1SG16EE099	SWATHI B		2	3	Le	5	6	7	8	9	10	11
98	1SG16EE100	VANDANA M		2	A	20	4	5	6	7	8	9	lo
99	1SG16EE101	VANDANA RAO J	1	2	3	Ti	5	6	7	A	8	9	A
100	1SG16EE102	VANI V N	1	2	3	(0	5	6	7	8	9	10	11
101	1SG16EE104	VIJESH V		2	3	G	6	A	A	7	8	9	10
102	1SG16EE105	VIKHYAT S DESAI		A	9	3	4	5	6	7	A	8	9
103	1SG16EE106	VINAY U.C.	1	2	3	4	5	6	7	8	9	10	il
104	1SG16EE107	YASHAS B		2	3	u	A	5	6	at	8	9	10
105	1SG16EE108	YASHASWINI S	1	2_	3	U	5	6	7	8	9	10	11
106	1SG16EE110	YESHAS C V SWAMY	1	2	3	4	5	6	A	7	8	9	10
07	1SG17EE413	NARENDRA B		2	A	3	B	5	6	n	7	8	9
108	1SG17EE416	NITESH ANIL KOTHAKAR	1	2	3	4	5	6	7	8	9	10	11
109	1SG17EE417	POOJA C	1	2-	25	4	5	6	7	8	9	10	11
110	1SG17EE419	PRAVEEN S	1	2	A	3	4	5	6	A	7	8	9
111	1SG17EE420	SHARATH KUMAR R		2	2,	4	5	6	7	8	9	10	11
112	1SG17EF421	SHIVAMANI M	i	2	25	4	5	A	6	7	8	9	10
113	1SG17EE422	TEJASWINI R	1	2	#	3	4	5	6	7	17	8	9
114	1SG17EE424	THYAGARAJU K H	1	2	3	4	5	6	7	8	9	10	11
115	1SG16EE437	RAKESH	1	2	3	1	5	6	1	8	P	10	A
116	1SG15EE447	SUPRITH	1	2_	3	u	5	A	6	2	8	9	10
117	1SG15EE074	RAMYA.P	1	17-	3	3	4	5	6	7	33	A	9
118	1SG15EE048	MANJULA S	1	2	3	4	5	6	7	A	8	9	10
19	1SG15EE052	MEGHANA N	1	2	3	1	5	P	6	7	8	9	10
120	1SG16EE410	DAKSHINAMURTHY	1	2	3	4	5	6	7	8	17	9	10
121	1SG16EE425	MANJUNATH GOWDA	1	2	3	4	5	6	A	7	8	9	10
Signa			(10)	(0)	(P)	(0)	(R)	0	(0)	(0)	0	0	0

[Progream Co-ordinator)

HOD PROF & HOD

Department of Electrical & Electronics Engineering
Septhagin College of Engineering angalora - 560057.

Principal

Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaragnatta Main Road Bengaluru - 563 057



(Affiliated to Visvesvaraya Technological University, Belagavi& Approved by AICTE, New De hi) #14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560057 Phone:020-28372800/1;2 www.sapthagiri.edu.in

Department of Electrical & Electronics Engineering

5 days Certification Course on "Protection of Electrical Network"

Test Time Table

Sl. No.	DATE	DAY	TIMINGS
1	27-07-2018	Friday	4.30PM-5.30PM

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

HOD-EEE

PROF & HOD

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



(Affilia ed to Visvesvaraya Technological University, Belagavi& Approved by AICTE, New De hi) #14/5, Chikkasandra, Hesaraghatta Main Road, Benga Lru - 560057 Phone:08C-28372800/1/2 www.sapthagiri.edu.in

Department of Electrical & Electronics Engineering

5 days Certification Course on

"Protection of Electrical Network"

Question Paper

Duration :1hr

Note: Question number -18 (1M each)

Question number 19-22 (3M each)

Maximum marks :30

Answer all the Questions:

- 1. What is the value of charging current in short transmission lines?
- a) Less than medium transmission lines
- b) Equal to medium transmission lines
- c) More than medium transmission lines
- d) More than long transmission lines
- 2. What is the value of Inductive reactance in short transmission lines?
- a) More at receiving end
- b) more at sending end
- c) Uniformly distributed over entire length
- d) more in micdle of sending end and receiving end
- 3. Regulation of short transmission lines depends:
- a) Only on line resistance
- b) Only on line inductance
- c) Only on line capacitance
- d) On line inductance and line resistance
- 4. What is the percentage voltage regulation of short transmission line if its sending end and receiving end voltages are 160 KV and 132 KV respectively?
- a) 30 %
- b) 21.21 %
- c) 12.12 %
- d) 38.22 %
- 5. A single phase transmission line is transmitting 1,100 KW power at 11 KV and at unity power factor. If it has a total resistance of 5 Ω , what is the efficiency of the transmission line?
- a) 80 %
- b) 89.65 %
- c) 97.24 %
- d) 99.54 %

Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaragnatta Main Road Bengaluru - 563 057



(Affiliated to Visvesvaraya Technological University, Belagavi& Approved by AICTE, New Delhi) #14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057 Phone:080-28372800/1/2 www.sapthagiri.edu.in

Department of Electrical & Electronics Engineering

6. Voltage regulation of a transmission line should b	ne e
a) Minimum	
b) Maximum	
c) Greater than 50 %	

- d) Less than 50 %
- 7. Which of the following is like equivalent circuit of short transmission line?
- a) Series RLC circuit
- b) Parallel RLC circuit
- c) Series RL circuit
- d) Parallel RL circuit
- 8. In single phase transmission lines resistance and inductance are considered only up to neutral.
- a) True
- b) False
- 9. In a circuit breaker, are is initiated by the process of
- a) Thermal emission
- b) Alternators
- c) Field emission
- d) Transmiss on lines
- 10. Bulk oil circuit breaker is suitable for voltages upto
- a) 4 kV
- b) 25 kV
- c) 10 kV
- d) 36 kV
- 11. Circuit breakers are essentially
- a) Current carrying contacts called electrodes
- b) Arc extinguishers
- c) Transformers to isolate two systems
- d) Circuits to break the system
- 12. The voltage across the circuit breaker pole after final current zero is
- a) Restriking voltage
- b) Supply voltage
- c) Recovery voltage
- d) None of these

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



(Affil a ed to Visvesveraya Technological University, Belagavi& Approved by AICTE, New Delhi) #14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057 Phone:080-28372800/1/2 www.sapthagiri.edu.in Fax: 030-28372797

Department of Electrical & Electronics Engineering

- 13. Which of the following circuit breakers takes minimum time installation?
- a) Bulk oil circuit breaker
- b) Minimum oil circuit oreaker
- c) Air blast circuit breaker
- d) SF6 circuit breaker
- 14. In a power system, the rate of rise of restriking voltage depends upon
- a) Circuit power factor only
- b) Switching condition only
- c) Both (a) and (b) above
- d) None of these
- 15. In a circuit breaker, the arcing contents are made of
- a) Aluminium
- b) Electrolytic
- c) Copper tungsten alloy
- c) Tungsten
- 16. Fault diverters are basically
- a) Circuit breakers
- b) Fast switches
- 2) Relays
- d) Fuses
- 17. The following medium is employed for extinction of arc in air break circuit breakers?
- a) Air
- b) Oil
- e) Water
- d) None of these
- 18. The following circuit breaker does not use pneumatic operating mechanism
- a) Air break circuit breaker
- E) Air blast circuit breaker
- c) Bulk oil circuit breaker
- d) SF6 circuit breaker
- 19. How the electrical power system protection is divided?
- 20. What is fault clearance time?
- 21. What are the fundamental elements of relay?
- 22 What is Reach?

Sapthagiri College of Engineering 14/5. Chikkasandra, Hesaraghatta Main Road Bengaluru - 580 057



(Affiliated to Visvesvaraya Technological University, Belagavi& Approved by AICTE, New Delhi) #14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057 Phone:080-28372800/1/2 www.sapthagiri.edu.in Fax: 080-28372797

Department of Electrical & Electronics Engineering

Approved by Academic Committee Members & HOD

SI No.	Faculty Name	Designation	Signature
1	Dr. K N Ravi	HOD	fan
2	Prof. Rekha S N	Associate Professor	Reli
3	Prof. Dhamodaran A	Assistant Professor	Ashow
4	Prof. Mahavishnu K B P	Assistant Professor	ARIN
5	Prof. Bharath B N	Assistant Professor	RATUB
6	Prof. Shivaraj A	Assistant Professor	Dis M
7	Prof. Leela AM	Guest Speaker	Leela

HOD, EEE

PROF & HOD

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

Principal

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



(Affiliated to Visves Fraya Technological University, Belagavi& Approved by AICTE, New Delhi)
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057
Phone:080-28372800/1/2 www.sapthagiri.edu.in Fax: 080-28372797

Department of Electrical & Electronics Engineering

Approved by Academic Committee Members & HOD

SI No.	Faculty Name	Designation	Signature
1	Dr. K N Favi	HOD	fors'
2	Prof. Rekha S N	Associate Professor	Qui
3	Prof. Dhamodaran A	Assistant Professor	Adlan
4	Prof. Mahavishnu KBP	Assistant Professor	Aler.
5	Prof. Bharath B N	Assistant Professor	BALLIB
6	Prof. Shivaraj A	Assistant Professor	Dira.

HOD, EEE

PROF & HOD

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

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



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

Department of Electrical and Electronics Engineering

5 days Certification Course on "Protection of Electrical Network" 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
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
a) Poor b) Salisfactory 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:
This program was good, I indenstand well:
Test conduction was excellent.
Student Name: Faiza Kathama A Student Signature: Paiza Robinson
Principal Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaraghatta Main Road 1
Bengaluru - 560 057



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

Department of Electrical and Electronics Engineering

5 days Certification Course on "Protection of Electrical Network" 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
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
a) Poor b) Satisfactory e) Good d) Excellent
7. Generally how was your overall experience during the Cartification Course
a) Poor b) Satisfactory c) Good d) Excellent
8. Any Suggestions:
It was good Tooks ender
with concept Thanks you
Student Name: Child har near der C Student Signature:
Ptinc pai
Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaraghatta Main Road

Bengalaru - 560 057



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

Department of Electrical and Electronics Engineering

5 days Certification Course on "Protection of Electrical Network"

Participant Feedback	
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	
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	
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 am huppy with the course, expert	
trught well, topics with concept, Thankyon	
) Thankyon	-
Student Name: Mad hukuv K Student Signature:	
Principal	



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

Department of Electrical and Electronics Engineering

5 days Certification Course on "Protection of Electrical Network" Participant Feedback

How was the overall organization of the Certification Course ?
a) Poor b) Satisfactory c) Good d) Excellent
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
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 Understound the topics tauped by experts
hell, " est conduction was price.
Student Name: Gowthans - K. Student Signature:
a Company of the comp
Principal 1

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



Sapthagiri College of Engineering
14/5, ChiEkasandra, Hesaraghatta Main Roac, Bengaluru-560057

Department of Electrical and Electronics Engineering

5 days Certification Course on "Protection of Electrical Network"

Participant Feedback
How was the overall organization of the Certification Course ?
a) Poor b) See
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) Sarisfactory c) Good d) Excellent
How do you rate the Certification Course compared to other workshops that you have
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:
- Program way excellent, I need such
forgrang in every semestres.
Student Name: Teerlan Kurnay R Student Signature:

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

1



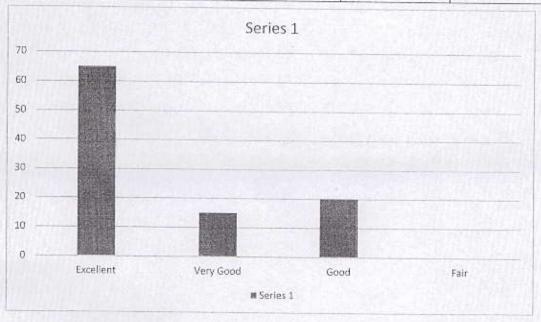
(Affiliated to Visvesvaraya Technological University, Belagavi& Approved by AICTE, New Delhi) #14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057 Phone:080-28372800/1/2 www.sapthagiri.edu.in Fax: 080-2837279

Department of Electrical & Electronics Engineering

FEEDBACK ANALYSIS

Certification Programme: "Protection of Electrical Network"

No. of students participated	Student Feedback					
	Excellent	Very Good	Good	Fair		
121	65	15	20	0		



Action Report:

65 % of students were completely happy with the certification program and 15 % of students felt it was a good program and remaining 20 % students were satisfied 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 &

PROF & HOD

Department of Electrical & Electronics Engineering
Sapthagiri College of Engineering
Bangalore - 580057.



Bangalore-560057

Certificate

This is to Ce	ertify th	nat Mr	./Ms.									
Of									has	partio	cipated	and
successfully	comp	leted	Five	days	Certific	ation	Course	on	"Protec	tion (of Elec	trical
Network"	from	23rd	July,	2018	to 27th	July,	, 2018 or	rgan	ized by	the D	epartme	nt of
Electrical &	Electr	onics	Engin	eering	, Sapth	agiri	College	of E	ngineeri	ing.		

HOD, Dept. of EEE

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



Bangalore-560057

Certificate

This is to Ce	ertify that N	Ir./Ms	AR	GOU	TAM	- 1	5516	E EOO1	
Of	E	EEE					has	participated	and
successfully	completed	d Five day	s Certifi	ication	Course	on '	'Protec	tion of Elec	trical
Network"	from 23rd	July, 201	8 to 27th	July,	2018 or	rganiz	zed by	the Departme	nt of
Electrical &	Electronics	Engineerir	ng, Sapt	hagiri (College	of En	ginceri	ng.	

HOD, Dept. of EEE

Arincipal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaragh Hain Road
Ingaluri - 560



Bangalore-560057

Certificate

This is to Ce	ertify that Mi	:./Ms	CHIRAG	S	- 15616E	E023	
Of	ÊĒE					participated	and
successfully	completed	Five days	Certification	Course			
Network"	from 23rd	July, 2018	to 27th July,	, 2018 o	rganized by	the Departmen	nt of
Electrical &	Electronics 1	Enginecring	g, Sapthagiri	College	of Enginecri	ng.	

HOD, Dept. of EEE

Sapthagiri College of Engineering 14/5, Chikkasandra, Hesareghatta Main Road Bengaluu - 560 05?



(Affiliated to Visvesvaraya Technological University, Belagavi& Approved by AICTE, New Delhi)
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057
Phone:080-28372800/1/2 www.sapthagiri.edu.in Fax: 080-28372797

Department of Electrical & Electronics Engineering

Certificate Course Report

Department of EEE conducted Certificate Course on "Protection of Electrical Network.

Guest Speaker: Prof. Leela AM, Associate Professor, Department of EEE, Acharya Institute of Technology, Bengaluru.

Duration of the course: five days from July 23rd 2018 to July 27 2018

Course detail:

Objective of the Course: The five day course made the students to be familiar with the Protection of Electrical Networks Ring main units (RMU) are normally connected to form an MV ring main or loop. This arrangement provides the user with a two-source supply, thereby considerably reducing any interruption of service due to system faults or operational maneuvers by the supply authority. The main application for RMUs is in utility MV Underground cable networks in urban areas.

Certificate course made them comfortable with the Protection of Electrical Networks. 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 orus 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 23-7-2018	SESSION 1 (9.00am-10.30am)	SESSION 2 (11.00am-12.30pm)	SESSION 3 Hands-on Session (1.30pm-4.30pm)
Monday	Network Structures General structure of the private distribution network The supply source	MV power supply Different MV service connections supply modes HV consumer substations	Hands on Network Structures examples
24-7-2018 Tuesday	MV consumer substations MV networks inside the site MV switchboard power supply modes	MV network structures. LV networks inside the site LV switchboard	Hands on Collections at MV and LV switch board
25-7-2018 Wednesday	Earthing Systems Earthing systems at low voltage. Different earthing systems — definition and arrangements Unearthed or impedance-earthed	Directly earthed neutral (TT system) Connecting the exposed conductive parts to the neutral	Hands on Earthing handling and Connections



(Affiliated to Visvesvaraya Technological University, Belagavi& Approved by AICTE, New Delhi)
#14/5, Chikkasandra, Hesaraghatta Main Road, Benga uru – 560057
Phone:080-28372800/1/2 www.sapthagiri.edu.in Fax: 050-2837279

Department of Electrical & Electronics Engineering

Dates	SESSION 1 (9.00am-10.30am)	SESSION 2 (11.00am-12.30pm)	SESSION 3 Hands-on Session (1.30pm-4.30pm)
26-7-2018 Thursday	Protection of Network Elements Network protection Earth fault requirements for networks eartied via a limiting Protection against earth faults	Network with two parallel incoming feeders Protection against earth faults Network with two looped incoming feeders	Fands on Protection o"Network Elements
27-7-2018 Friday	Examples of motor protection. Motor protection setting indications Protection of low voltage asynchronous motors AC generator protection	Specific protection against earth faults Switch-fuse protection Circuit-breaker protection. Examples of transformer protection	Hands on Switch- fuse protection Circuit-breaker protection. Test Conduction

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 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 certificate Course. As part of Certificate course 4 faculty members were identified and assigned duries and responsibilities to carry out the Certificate course.



(Affiliated to Visvesvaraya Technological University, Belagavi& Approved by AICTE, New Delhi)
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057
Phone:080-28372800/1/2 www.sapthagiri.edu.in Fax: 080-28372797

Department of Electrical & Electronics Engineering









HOD-EEE

PROF & HOD

Department of Electrical & Electronics Engineering Sapthaghi College of Engineering Bangalore - 580057.



(Affiliated to Visvesvaraya Technological University, Belagavi& Approved by AICTE, New De hi)
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057
Phone:080-28372800/1/2 www.sapthagiri.edu.in Fax: 080-2837279

Department of Electrical & Electronics Engineering

To.

IQAC Coordinator Sapthagiri College of Engineering Bangalore - 560057.

Respected Sir,

Subject: Budget proposal for conduction of certification program "Condition and assessment of High Voltage insulation in power system equipment"

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 "Condition and assessment of High Voltage insulation in power system equipment" from 25-Jan-2019 to 31-Jan-2019.

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.4140 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	107	20	2140
2	Course Material			2000
Grai	nd Total			4140

Forwarded for Cr. G. affrord Enced by

PROF & HOD

Sapthagin College of Engineering

HOD

Bangalore -560057.

Dr H.R. Ranganatra

Prof. & H.O.D

Dept.of Information Science & Eng.
Saprhagiri College of Engine - a
14/5 Chikkasandra, Hesarmykati - - - - a

BEINGALURU-500 057

Principal



(Affiliated to Visvesvaraya Technological University, Belagavi& Approved by AICTE, New Delhi) #14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057 Phone:080-28372800/1/2 www.sapthagiri.edu.in Fax: 080-28372797

Department of Electrical & Electronics Engineering

03-01-2019

CIRCULAR

This is to inform that the following Curriculum Board members are requested to attend the meeting on 04/01/2019 at 11.30AM 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	8/
3	Prof. Dhamodaran A	Assistant Professor	Aslow
4	Prof. Mahavishnu K B P	Assistant Professor	Dan St.
5	Prof. Bharath B N	Assistant Professor	DANS
6	Prof. Shivaraj A	Assistant Professor	D-012

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

HOD EEE

PROF & HOD

Department of Electrical & Electronics Engineering Suprihegiri College of Engineering Bangatore - 560057.



(Affil ated to Visvesvarays Technological University, Belagavi& Approved by AICTE, New Delhi) #14/5, Chikkasar dra, Hesaraghatta Main Road, Bengaluru – 560057 Phone:050-28372800/1/2 www.sapthagiri.edu.in

Department of Electrical & Electronics Engineering

Date: 03-01-2019

To.

Prof. Aruna M Associate Professor. Department of EEE, Acharaya Institute of technology Bangalore - 560090.

Respected Sir.

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

Department of Electrical & Electronics Engineering have planned to conduct a certification program titled "Condition and assessment of High Voltage insulation in power system equipment" for EEE students from 25-01-2019 to 31-01-2019. 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 04-01-2019 11.30AM. We look forward to welcome you at SCE.

Thanking you

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

Bengaluru - 560 057

Yours faithfully

HOD

PROF & HOD

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



(Affiliated to Visvesvaraya Technological University, Belagavi& Approved by AICTE, New Delhi) #14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057 Phone:080-28372800/1/2 www.sapthagiri.edu.in Fax: 080-28372797

Department of Electrical & Electronics Engineering

Minutes of Meeting

A meeting was conducted on 4/01/2019 in EEE HOD's Chamber to discuss and approve the following about the 5 days Certification Course for EEE Students.

- Course Title: "Condition and assessment of High Voltage insulation in power system equipment"
- Resource Personnel: Prof. Aruna M, Assoc Professor, Dept of EEE, Acharaya Institute of technology, Bengaluru.
- Course Duration & Date: 5 Days from 25-Jan-2019 to 31-Jan-2019.
- · Course Content

Dates	SESSION 1 (9.00am-10.30am)	SESSION 2 (11.00am-12.30pm)	SESSION 3 Hands-on Session (1.00pm-4.00pm)
25-1-2019 Friday	Interconnection of HV power system components Alternating voltage systems	Direct-voltage systems Insulation coordination High-voltage test levels	Hands on failure of practical insulating materials
28-1-2019 Monday	Lightning-impulse voltages Switching surges Very fast transient tests (VFTT)	Direct-voltage tests Power system developments	Hands-on Collections at Power-frequency voltages examples
29-1-2019 Tuesday	High-voltage machines Possible insulation failure mechanisms in rotating machines	CIGRE summary of expected machine insulation degradation Future of machine insulation Transformers	Hands on Earthing, handling and Connections
30-1-2019 Wednesday	Basic methods for insulation assessment Generation and measurement of test high voltages	Power-frequency voltages Very-low-frequency voltages (VLF)	Hands-on Ultrasonic method for detection of partial discharges
31-1-2019 Thursday	Insulation resistance (IR) measurements Measurements of the dielectric dissipation factor(DDF)	Measurement of partial discharges by electrical methods Dielectric response measurements	Hands-on Water treeing in XLPE Test Conduction



(Affiliated to Visvesvaraya Technological University, Belagavi& Approved by AICTE, New Delhii
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057
Phone:080-28372800/1/2 www.sapthagiri.edu.in Fax: 080-28372797

Department of Electrical & Electronics Engineering

The following Curriculum board members were present

SI No.	Faculty Name	Designation	Signature
1	Dr. K N Ravi	HOD	15co/
2	Prof. Rekha S N	Associate Professor	(Py)
3	Prof. Dhamodaran A	Assistant Professor	Adam
4	Prof. Mahavishnu KBP	Assistant Professor	Ways?
5	Prof. Bharath B N	Assistant Professor	RAD LUB
6	Prof. Shivaraj A	Assistant Professor	Si ad
7	Prof. Aruna M	Guest Speaker	A na M

Principal

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

HOD, EEE

PROF & HOD

Department of Electrical & Electronics Engine Septiment College of Engineering Bengators - 500057.



(Affiliated to Visvesvaraya Technological University, Belagavi& Approved by AICTE New Delhi)
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057
Phone:080-28372800/1/2 www.sapthagiri.edu.in Fax: 080-28372797

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 on "Condition and assessment of High Voltage insulation in power system equipment" from 25-Jan-2019 to 31-Jan-2019

All the EEE students must attend the course compulsorily.

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

Signature of HOD

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



(Affi lated to Visvesvaraya Technological University, Belagavi& Approved by AICTE, New Delhi] #14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560057 Fax: 080-28372797 Phone:030-28372800/1/2 www.sapthagiri.edu.in

Department of Electrical & Electronics Engineering

Certification Program: "Condition and Assessment of High Voltage insulation in power system equipment"

Lesson Plan

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
25-1-2019 Friday	Interconnection of HV power system components Alternating voltage systems	Direct-voltage systems Insulation coordination High-voltage test levels	Hands-on failure of practical insulating materials	6
28-1-2019 Monday	Lightning-impulse voltages Switching surges Very fast transient tests (VFTT)	Direct-voltage tests Power system developments	Hands-on Collections at Power-frequency voltages examples	6
29-1-2019 Tuesday	High-voltage machines Possible insulation failure mechanisms in rotating machines	CIGRE summary of expected machine insulation degradation Future of machine insulation Transformers	Hands-on Earthing, handling and Connections	6
30-1-2019 Wednesday	Basic methods for insulation assessment Generation and measurement of test high voltages	Power-frequency voltages Very-low-frequency voltages (VLF)	Hands-on Ultrasonic method for detection of partial discharges	6
31-1-2019 Thursday	Insulation resistance (IR) measurements Measurements of the dielectric dissipation factor(DDF)	Measurement of partial discharges by electrical methods Dielectric response measurements	Hands-on Water treeing in XLPE Test Conduction	6
			Total	30

PROF & HOD

Department of Electrical & Electronics Engineerin Sapthagiri College of Engineering

Bangalore - 560057.

Principal

GUEST SPEAKER

T.º



14/5, Ca kkasandra, Hesaraghatta Main Road, Bengaluru-560057

Department of Electrical and Electronics Engineering

5 days Certification Program on

"Condition and Assessment of High Voltage Insulation in Power System

Equipment"

Students Enrollment

Academic Year(2018-19 Even)

SL.No	USN	Student Name
	1SG16EE002	AAKASH N MURTHY
	1SG16EE045	
3	1SG17EE001	
4	1SG17EE002	AJAY S PAI
5	1SG17EE003	AKASH GALI
6	1SG17EE004	AKSHATA ASKI
7	1SG17EE005	AKASHATA SHENOY
8		AKSHATHA B KULKARNI
9	1SG17EE007	ANU H N
10	1SG17EE008	ARASUKUMARI M S
11		ARCHANA D
12	1SG17EE010	ARCHITHA N BHAT
13	1SG17EF011	
14	1SG17EE012	BINDU SHREE S
15		BYRESH H
16	1SG17EE014	CHAITANYA D R
17	1SG17FE015	CHAITHRA N
31	1SG17EE016	CHANDAN KUMAR R
12	1SG17EE017	CHANDAN R
2C	1SG17EE018	CHANDANA N
21	1SG17EE019	CHETHAN R
22	1SG17EE020	DASHARATH R
23	1SG17EE022	DILIP R
24	1SG17EE023	DIVYA LAKSHM P
5	1SG17EE024	GURU PRASAD G
6	1SG17FE025	HARISH T
7	1SG17EF027	JASHWANTH G M
88	1SG17FF028	JENNIFER C
29	1SG17FF029	JNANAMURTHY R
XO 02	1SG17EE031	KAVYASHREE G
31	1SG17EE032	KEERTHLSK
32	1SG17FF033	KOUSALAYA D
33	1SG17EE034	KRITHI BIDDAPPA K
34	1SG17EE035	KUSHAL D
35	1SG17FE036	LIKITHA N
36	1SG17EE038	MAHADEV M
37	1SG17EE039	MANASA R
38	1SG17EE040	MANDARA C K



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

Department of Electrical and Electronics Engineering

L.No	USN	Student Name
3	1SG17EE041	MANJUEETH KUMAR
)	1SG17FF042	MEGHANA B
1	1SG17EE043	MEGHANA R
2	1SG17FF044	MOHAN RAJ D
3	1SG17EE045	MONISHA C
1	1SG17EE046	NAGASHREE T
5	1SG17EE047	NANDU P R
3	1SG17EE048	NEHA S
7	1SG17EE049	NEHATR
8	1SG17EE050	NINADA A ASHOK
9	1SG17EE051	NIRANJAN B A
0	1SG17EF052	NISHITHA R
1	1SG17EE053	NITIN PUJAR
2	1SG17EE054	POOJA K
3	1SG17FF055	POORVIKA R
4	1SG17FF056	PRAJWAL S
5	1SG17EE057	PRASHANTH Y I
3	1SG17EE058	PREKSHA S
7	1SG17EE059	PRUTHVLS
)	1SG17EE060	RLOKESH
9	1SG17EE061	RAGHUVEER BJ
)	1SG17EE062	RAKSHITH S
1	1SG17EE063	RAKSHITHA G M
2	1SG17EE064	RAKSHITHA M
	1SG17EE065	RAMYAPVS
	1SG17EE066	RANJITHA B R
5	1SG17FF068	SAHANA G R
3	1SG17EE070	SHANI PRADEEP
7	1SG17EE071	SHANTNU YADAV
3	1SG17EE072	SHILPA S
)		SHIVARAJ N P
)	1SG17EE075	SINCHANA R
	1SG17EE076	SPOORTHY D K
2	1SG17EE077	SRINIVASA R
3	1SG17EE078	SUBRAMANYA M V
1	1SG17EE079	SWATHI C
5	1SG17EE080	TEJU M K
3	1SG17FE081	THANUJA N
,	1SG17EE082	THILAK B.T.
3	1SG17EE083	UDAY J
9	1SG17EE084	VARSHA KUMARI
)	1SG17FF085	VIDYA INAMDAR
	1SG17EE086	VIJAYAI AKSHMI G
2	1SG17EE087	VIKASI



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

Department of Electrical and Electronics Engineering

SL.No	USN	Student Name
83	1SG17EE088	VINODA M O
84	1SG17FF089	VISHRUTH B R
85	1SG17EE090	VISHWAS SHABADI
86	1SG17FF091	WASEEM PASHA M
87	1SG17EE092	YASHASWINI S
88	1SG17EE093	YESHWANTH S
89	1SG18FE400	HARISH REDDY
90	1SG18EE401	HARSHITH GOWDAK
91	1SG18FF402	IRABASAPPA KUMBAR
92	1SG18EE403	KIRAN K R
93	1SG18EF404	LOKESH RAJU R
14	1SG18FF405	MANOHARA B
5	1SG18EE406	MANOJ C
6	1SG18FF407	MANOJ R
7	1SG18FE408	NAVEEN G.B
8	1SG18FF409	NAVEEN KUMAR H.S
9	1SG18EE410	NIKELESH N
00	1SG18EF411	NIKHIL GOWDA J S
01	1SG18FF412	NIKHIL GOWDA V
02	1SG18EE413	POOJA
03	1SG18FF414	RAKESH R
)4	1SG18FF415	SALTEJA
C.	1SG18FF416	SIDDAIAH
0	1SG18FE417	SUDHEEP R
7	1SG18FF418	YOGESH S

Co-ordinator

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

partment of a:

HOD Engineer Soptimizer C ________ of Engineering

Bengalora - 550057.



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

5 days Certification Program on

"Condition and Assessment of High Voltage Insulation in Power System

Equipment"

Attendance

Academic Year: (2018-19 Even)

SI.	USN	Student Name	25-01	-2019	28-01	-2019	25-01	-2019	19 30-01-2019 31-01-20			-2019	019	
No	USN	Student mame	MS	AS	MS	AS	MS	AS	MS	AS	MS	AS	Tes	
1	1SG16EE002	AAKASH N MURTHY	1	2	3	A	4	5	6	7	8	9	10	
2	1SG16EE045	KIRAN KUMAR	1	2	3	4	5	6	7	8	9	10	11	
3	1SG17EE001	AISHWARYA GUFTA	1	2	3	4	5	6	7	8	9	10	11	
4	1SG17EE002	AJAY S PAI	1	2	3	4	5	6	7	8	9	10	11	
5	1SG17EE003	AKASH GALI	1	2	A	3	4	5	6	7	8	9	It	
6	1SG17EE004	AKSHATA ASKI	1	2	3	4	A	5	6	7	8	9	11	
7	1SG17EE005	AKASHATA SHENCY	1	2	3	4	5	6	A	7	8	9	10	
8	1SG17EE006	AKSHATHA B KULKARNI	1	2	3	4	5	6	7	8	9	10	11	
9	1SG17EE007	ANU H N)	2	3	H	5	6	A	7	8	9	t	
10	1SG17EE008	ARASUKUMARI M.S		2	3	A	4	5	A	6	7	8	0	
11	1SG17EE009	ARCHANA D	1	2	3	4	A	5	6	7	8	9	11	
12	1SG17EE010	ARCHITHA N BHAT	1	2	3	4	5	5	7	8	9	10	11	
13	1SG17EE011	BHOOMIKA M.C.	1	2	3	4	5	6	7	A	8	9	-	
14	1SG17EE012	BINDU SHREE S	1	2	3	4	5	A	6	7	8	9	11	
15	1SG17EE013	BYRESH H	1	2	3	Le	5	6	A	7	8	q	1	
16	1SG17EE014	CHAITANYA D.F.	1	2	3	4	5	6	7	A	8	9	11	
17	1SG17EE015	CHAITHRA N	1	2	3	4	5	6	1	7	8	9	10	
18	1SG17EE016	CHANDAN KUMAR 3	1 -	2	3	4	5	6	7	A	8	9	11	
19	1SG17EE017	CHANDAN R	1	2	3	4	5	6	7	8	9	A	11	
20	1SG17EE018	CHANDANA N	1	2	3	4	5	6	7	8	A	9	11	
21	1SG17EE019	CHETHAN R	- 1	2	3	G	5	6	7	8	9	10	1	
22	1SG17EE020	DASHARATH R	1	2	3	4	5	6	7	8	9	10	U	
23	1SG17EE022	DILIP R	1	2	3	4	5	6	7	8	A	9	11	
3.4	1SG17EE023	DIVYA LAKSHM P	- 1	2	3	4	5	6	7	8	9	10	11	
25	1SG17EE024	GURU PRASAD 3	1	2	3	4	5	6	4	8	9	10	11	
26	1SG17EE025	HARISH T	1	2	3	4	5	0	7	8	9	10	11	
27	1SG17EE027	JASHWANTH G M	1	2	3	4	5	6	7	8	A	9	L	
28	1SG17EE028	JENNIFER C	1	2	3	4	5	5	7	8	9	10	11	
29	1SG17EE029	JNANAMURTHYIR	1	2	3	4	5	6	7	8	q	10	1	
30	1SG17EE031	KAVYASHREE G	1	2	3	4	5	6	7	8	9	10	11	
31	1SG17EE032	KEERTHI S K		2	3	4	5	8	7	A	8	9	17	
32	1SG17EE033	KOUSALAYA D	1	2	3	4	5	6	#	8	9	10	11	
33	1SG17EE034	KRITHI BIDDAPEA K	1	2	3	4	5	3	+	8	9	10	11	
34	1SG17EE035	KUSHAL D	1	2	3	4	5	6	7 7	8	9	10	11	
35	1SG17EE036	LIKITHA N	1	2	2	4	5	6		A	8	9	10	
36	1SG17EE038	MAHADEV M	1	2	3	H	5	6	7	8	A	9	19	
37	1SG17EE039	MANASA R	1	2	3	H	5	6	7	8	9	A	II	
38	1SG17EE040	MANDARA C K	1	2	3	H	5	3	7	A	8	9	10	
39	1SG17EE041	MANJUEETH KUMAR	1	2	3	4	51	6/	7	8	A	9	10	
40	1SG17EE042		1	2	3	4	5	1	A	7	8	19	10	



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

SI.	USN	Student Name	25-0	1-2019	28-0	1-2019 29-0		1-2019	30-01	-2019	31-01	-2019	1771
No	USIN	Student Name	MS	AS	MS	AS	MS	AS	MS	AS	MS	AS	Test
41	1SG17EE043	MEGHANA R	1	2	3	4	5	6	7	8	9	10	11
42	1SG17EE044	MOHAN RAJ D	1	2	3	4	5	6	7	B	9	10	11
43	1SG17EE045	MONISHA C	1	2	3	4	5	6	1	8	9	10	u
44	1SG17EE046	NAGASHREE T		2	3	4	A	5	6	7	8	9	17
45	1SG17EE047	NANDU P R	1	2	2,	74	5	6	A	7	8	9	10
46	1SG17=E048	NEHA S	- 1	2_	3	4	5	6	7	8	A	q	10
47	1SG17EE049	NEHA T R		2	3	4	5	6	7	8	9	10	11
48	1SG17EE050	NINADA A ASHOK	1	2	3	4	A	5	6	A	4	8	9
49	1SG17EE051	NIRANJAN B A	1	2	3	4	5	6	7	8	9	10	11
50	1SG17EE052	NISHITHA R	1	2-	3	4	5	6	7	8	A	9	L
51	1SG17EE053	NITIN PUJAR		2	3	4	5	6	7	8	9	10	11
52	1SG17EE054	POOJA K	i	2	3	4	5	6	7	8	9	10	11
53	1SG17EE055	POORVIKA R		2	3	4	5	6	7	8	9	16	11
54	1SG17EE056	PRAJWAL S		2	3	4	5	6	7	8	À	90	10
55	1SG17EE057	PRASHANTH Y L		2	3	4	5	6	À	7	8	9	11
56	1SG17EE058	PREKSHA S		d	2	3	4	5	6	7	8	9	10
57	1SG17EE059	PRUTHVI S		2	A	3	4	5	6	7	8	9	10
58	1SG17EE060	R LOKESH	1	2	3	A	14	5	6	7	3	q	10
59	1SG17EE061	RAGHUVEER B J		2	3	4	5	6	7	8	1	9	10
60	1SG17EE062	RAKSHITH S		2	3	4	5	6	1	7	8	9	10
61	1SG17EE063	RAKSHITHA G M	1	2	3	4	A	5	6	7	8	9	10
62	1SG17EE064	RAKSHITHA M		2	3	4	5	6	7	8	9	10	11
63	1SG17EE065	RAMYA P.V.S	i	2	3	4	5	6	7	8	9	10	11
64	1SG17EE066	RANJITHA B R	1	2	3	4	5	6	7	8	9	10	11
65	1SG17=E068	SAHANA G R		2	3	4	5	6	7-	8	9	10	11
66	1SG17=E070	SHANI PRADEEP		2	3	4	5	6	7	8	9	lo	11
67	1SG17EE071	SHANTNU YADAV	1	2	3	L	5	6	7	8	9	10	11
68	1SG17EE072	SHILPA S	i	9	3	4	5	6	7	A	8	9	10
69	1SG17E=073	SHIVARAJ N P			3	4	5	6	7	8	A	9	11
70	1SG17EE075	SINCHANA R		2	3	L	5	6	7	8	9	À	10
/1		SPOORTHY D K		2	3	7.	5	6	7	8	9	10	11
72	1SG17EE077	SRINIVASA R		2	3	Z	5	A	6	I	8	9	10
73	1SG17EE078	SUBRAMANYA M V		2		4	5	6	7	7 8	9	10	11
74		SWATHLC		2	3	43	5	6	7	8	q	10	11
75	1SG17EE080	TEJU M K		2	A	3	4	5	6	7	8	9	10
76	1SG17EE081	THANUJA N	1	2	3	A		5	6	7		9	10
77	1SG17EE082	THILAK B T		2	3	4	A	5	6	7	8	9	10
78	1SG17FE083	UDAY J	i	2	3	4	5	A	6	#	888	9	10
79	1SG17EE084	VARSHA KUMARI	i	2	3	L	5	6	7	8	9	10	11
80	1SG17EE085	VIDYA INAMDAR		2	3	4	555	6	7	8	A	9	10
81	1SG17EE086	VIJAYALAKSHMI G		2_	3	4	5	5	7	88	9	À	11
82	1SG17EE087	VIKAS L	1	2	3	4	5	6	7	3	9	10	11
83	1SG17EE088	VINODA M O	1	2	3	4	5	5	7	3	9	10	11
84	1SG17EE089	VISHRUTH B.R	1	2	3	4	5	6363	7	300	9	10	u
85	1SG17EE090	VISHWAS SHABADI	1	2	3	4	5	6	#	8	9	16	11
86	1SG17EE091	WASEEM PASHA M		2	3		5	6	17	8	9	10	11

Sapthagiri Collage of Engineering 14/5, Chikkasancus Hesaraghatta Main Road Bengeluru - 550 057



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

SI.	USN	Student Name	25-01	-2019	28-01	-2019	29-01	-2019	30-01	-2019	31-01	-2019	
No		Ottadent Harrie	MS	AS	Tes								
87	1SG17EE092	YASHASWINI.S	1	2	3	4	5	G	7	8	9	10	L
88	1SG17EE093	YESHWANTH S	1	2	.3	4	5	6	7	3	9	LD	11
89	1SG18EE400	HARISH REDDY	1	2	3	4	5	6	7	8	9	LO	11
90	1SG18EE401	HARSHITH GOWDA №		2	A	3	4	5	6	7	8	9	16
91	1SG18EE402	IRABASAPPA KUMBAR		2	3	A	H	5	6	7	8	9	10
92	1SG18EE403	KIRAN K R	- 1	2	.3	4	A	5	6	+	8	9	10
93	1SG18EE404	LOKESH RAJU R	1	2	A	3	4	A	5	6	7	8	9
94	1SG18EE405	MANOHARA B		2	3	4	5	6	7	8	9	10	11
95	1SG18EE406	MANOJ C	1	2	A	3	4	5	6	7	8	9	10
96	1SG18EE407	MANOJ R		2	3	4	5	6	A	7	8	9	16
97	1SG18EE408	NAVEEN G B		2	.3	4	5	6	7	8	9	10	11
98	1SG18EE409	NAVEEN KUMAR H S		2	3	L	5	6	7	8	A	q	10
99	1SG18EE410	NIKELESH N		2	3	4	.5	6	-	8	a	10	11
00	1SG18EE411	NIKHIL GOWDA J S	1	2	3	4	5	6	7	2	A	9	10
101	1SG18EE412	NIKHIL GOWDA V		2	3	4	5	6	7	8	9	10	11
102	1SG18EE413	POOJA	1	A	2	3	4	5	6	7	8	9	10
103	1SG18EE414	RAKESH R		2	3	A	1.	5	6	7	8	9	10
104	1SG18EE415	SALTEJA	1	2		4	5	6	7	8	9	10	11
105	1SG18EF416	SIDDAIAH	1	2	33	4	5	6	7	8000	9	10	11
106	1SG18EE417	SUDHEEP R	1	2	3	4	5	6	7	A	8	9	10
107	1SG18EE418	YOGESH S	1	2	3	Li	5	6	7	8	A	9	10
igna	ture		1 d	9-	9	Q-	a	'SI	a	9	1	3	Ct.

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

HOD

PROF & HOD

Department of Electrical & Electronics Engineering
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 Phone:080-28372800/1/2 www.sapthagiri.edu.in

Department of Electrical & Electronics Engineering

5 days Certification Course on "Condition and Assessment of High Voltage insulation in power system equipment"

Test Time Table

SI. No.	DATE	DAY	TIMINGS
1	31-1-2019	Thursday	4.00PM-5.00PM

Principal

Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaraghatta Main Road Bengaluru 580 057

HOD-EEE PROF & HOD

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



(Affiliated to Visvesvaraya Technological University, Belagavi& Approved by AICTE, New Delhi)
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057
Phone:080-28372800/1/2 www.sapthagiri.edu.in Fax: 080-283727

Department of Electrical & Electronics Engineering

5 days Certification Course on

"Condition and Assessment of High Voltage insulation in power system equipment"

Question Paper

Duration :1hr

Maximum marks:30

Note: Question number 1-30 [M each)

Answer all the Questions:

- 1) For the measurement of radio interference voltages, the detector circuit is provided with a measuring device to measure
- a. Average value
- b. Peak value
- c. Quasi-peak value
- d. All of these.
- 2) For operating power frequency voltages, a surge arrester has to be a
- a. Conductor
- b. Non-conductor
- c. Semiconductor
- d. None of these
- 3) Failure during switching impulse tests are can be determined by
- a. Visible in oscillograms
- b. Loud noise produced
- c. External flashovers
- d. All of these
- 4) Impulse testing of transformers is done using
- a. Full wave standard impulse
- b. Chopped wave standard impulse
- c. Half wave standard impulse
- d. Only (a) and (b)
- e. None of these
- 5) The expected life at the rated stress can be determined by conducting long duration life tests at increased
- a. Less than 1 hr
- b. 1 hr to about 1000 hr
- c. More than 1000 hr



(Affiliated to Visvesvaraya Technological University, Belagavi& Approved by AICTE, New Delhi) #14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560057 Fax: 080-28372797 Phone:080-28372800/1/2 www.sapthagiri.edu.in

Department of Electrical & Electronics Engineering

- d. None of these
- 6) The sparkover voltage
- a. Increases with humidity
- b. decreases with the partial pressure of water vapour in air
- c. Humidity effect decreases with the size of spheres
- d. Humidity is minimum for uniform field gaps
- For voltage measurements, the gap which gives highest accuracy is
- a. Sphere gaps
- b. Field gaps
- c. Rod gaps
- d. None of these
- The series capacitor peak voltmeter is suitable for
- a. Positive half cycle
- b. Negative half cycle
- c. Sinusoidal waveform
- d. All of these
- 9) The attractive force between the electrodes of a parallel plate capac tor is
- Directly proportional to the square of the applied voltage between plates
- b. Directly proportional to the capacitance between the plates
- c. Inversely proportional to the square of the separation between the plates
- d. All of these
- 10) A Capacitance Voltage Transformer can be connected to a
- a. High impedance device
- b. Low impedance device
- c. Relay coil
- d. Only (b) and (c)
- 11) In large impulse generators, the spark gaps are generally
- a. Sphere gaps
- b. Hemispherical gaps
- c. Square gaps
- d. Either (a) or (b)
- 12) For producing large values of impulse currents, a number of capacitors are charged in
- a. Parallel and discharged in series
- b.parallel and discharged in parallel

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

Bengaluru - 560 057



(Affiliated to Visvesvaraya Technological University, Belagavi& Approved by AICTE, New Delhi) #14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057 Phone:080-28372800/1/2 www.sapthagiri.edu.in Fax: 080-28372797

Department of Electrical & Electronics Engineering

c.series and discharged in series

- d. Series and discharged in paral el
- 13) In a multistage impulse generator, for producing very high voltages, a bank of capacitors is
- a. Charged in parallel and the discharged in series
- b. Charged in series and then discharged in parallel
- c. Charged in parallel and the discharged in parallel only
- d. Charged in series and then discharged in series only
- 14) In a series RLC circuit, the wave front and wave tail times are controlled by changing the value
- a. R only
- b. R and L simultanecusly
- c. R and C simultaneously
- d. L and C simultaneously
- 15) The disadvantages of resonent transformers is
- a. Pure sine wave output
- b. No high power arcing
- c. No repeated flashovers
- d. Additional variable chokes
- 16) The commonly used materials for HV insulation is
- a. Paper-oil insulation
- b. Polyester resin
- c. Ceramic
- d. PVC
- 17) Resins and var shes are commonly used in
- a. Generators and motors
- b. Cables
- c. Transformers
- d. Circuit breakers
- 18) The resin bonded paper bushings are designed to operate at a maximum radial stress of
- a. 5 kV/cm
- b. 10 kV/cm
- c. 15 kV/cm
- d. 20 kV/cm

Principal

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

Bengaluru - 560 057



(Affiliated to Visvesvaraya Technological University, Belagavi& Approved by AICTE, New Delhi) #14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057 Fax: 080-28372737 www.sapthagiri.edu.in Phone:080-28372800/1/2

Department of Electrical & Electronics Engineering

19) In paper based laminated construction, the typical value of dielectric constant and dielectric loss factor i

a. 3.5, 0.0015

b. 2.5, 0.0020

c. 3.5, 0.0025

d. 2.5, 0.0035

20) The most commonly used usulating materials for low and medium voltage cables is

- a. Polyethylene
- b. Porcelain
- c. PVC
- d. Vulcanized rubber

21. The example of artificial fibre is

- a. Rayon
- b. Cotton
- c. Flax
- d. Silk

22) Which among the following s not an example of impregnants?

- a. Mineral oil
- b. Chlorinated diphenyl
- c. Vegetable oils
- d. None of these

For very small cavities, discharge inception voltage

- a. Decreases as the cavity depth increases
- b. Increases as the cavity depth increases
- c. Remains unaffected as the cavity depth increases
- d. None of these

24) The liquid dielectrics contain voids or cavities within the medium or at the boundaries between the dielectric and the electrodes. The electric field strength in the voids is

- a. Lower than that across the dielectric
- b. Higher than that across the dielectric
- c. Equal to that across the dielectric
- d. None of these



(Affiliated to Visvesvaraya Tachnological University, Belagavi& Approved by AICTE, New Delhi)
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057
Phone:080-28372800/1/2 www.sapthagiri.edu.in Fax: 080-283727

Department of Electrical & Electronics Engineering

- 25) Treeing phenomenon is observed in
- a. Capacitors
- b. Cables
- c. Insulators
- d. Only (a) and (b)
- 26) According to the Stresser Oil Volume theory, the breakdown strength is
- a. Directly proportional to the stressed oil volume
- b. Directly proportional to the square of the stressed oil volume
- c. Inversely proportional to the stressed oil volume
- d. None of these
- 27) According to the Burble theory, once a bubble is formed, it will elongate in the direction of electric field under the influence of electrostatic forces. During elongation the volume of bubbles
- a. Increases
- b. Decreases
- c. Remains constant
- d. None of these
- 28) In case of solid particles present in the liquid and in case of presence of only gas bubbles in liquids, the direction of force is towards
- a. Areas of maximum stress, areas of minimum stress
- b. Areas of maximum stress, areas of maximum stress
- c. Areas of minimum stress, areas of maximum stress
- d. Areas of minimum stress, areas of minimum stress
- 29) The increase in liquid hydrostatic pressure
- a. Increases the breakdown strength
- b. Decreases the breakdown strength
- c. Does not affect the breakcown strength
- d. None of these

30) In Breakdown tests, the tests voltages required for these tests are usually of the order of

a. 0-10 kV

b. 20 - 50 kV

c. 50 - 100 kV

d. 100 - 200 kV



(Affiliated to Visvesyars ya Technological University, Belagavi& Approved by AICTE, New De h.)
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057
Phone:080-28372800/1/2 www.sapthagiri.edu.in Fax: 080-2837279

Department of Electrical & Electronics Engineering

Approved by Academic Committee Members & HOD

Faculty Name	Designation	Signature
Dr. K N Ravi	HOD	free
Prof. Rekha S N	Associate Professor	(3°)
Prof. Dhamodaran A	Assistant Professor	Alan
Prof. Mahavishnu K B P	Assistant Professor	FRUD
Prof. Bharath B N	Assistant Professor	PStA huis
Prof. Shivaraj A	Assistant Professor	Anto 18
Prof. Aruna M	Guest Speaker	Ana M.
	Dr. K N Ravi Prof. Rekha S N Prof. Dhamodarar A Prof. Mahavishnu K B P Prof. Bharath B N Prof. Shivaraj A	Dr. K N Ravi HOD Prof. Rekha S N Associate Professor Prof. Dhamodaran A Assistant Professor Prof. Mahavishnu K B P Assistant Professor Prof. Bharath B N Assistant Professor Prof. Shivaraj A Assistant Professor

Principal

Sapthagiri College of Engineering

1475. Chikkasandra, Hesaraghatta Main Road

Bengaluru - 560 057

PROPA HOD

Department of Electrical & Electronics Engineering 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 Phone:080-28372800/1/2 www.sapthagiri.edu.in

Department of Electrical & Electronics Engineering

5 days Certification Course on "Condition and assessment of High Voltage insulation in power system equipment"

Solutions for the Questions

Duration:1hr

Maximum marks:30

Note: Question number 1-30(1M each)

1 d	2 b	3 c	4 d	5 b	6 a	7 a	8 d	9 d	10 d
11 b	12 a	13 d	14 c	15 c	16 b	17 d	18 c	19 a	20 b
	22 c	23 d	24 a	25 b	26 c	27 d	28 a	29 b	30 a

Approved by Academic Committee Members & HOD

SI No.	Faculty Name	Designation	Signature
1	Dr. K N Ravi	HOD	Km
2	Prof. Rekha S N	Associate Professor	(Pur
3	Prof. Dhamodaran A	Assistant Professor	Ashan
4	Prof. Mahavishnu KBP	Assistant Professor	Alle
5	Prof. Bharath B N	Assistant Professor	BLALUB
6	Prof. Shivaraj A	Assistant Professor	Star Mi

Sapthagiri College of Engineering Japunagin College Of Engineering 14/5, Chikkasandra, Hesaraghatta Main Read Bengaluru - 580 057

HOD, EEE

PROF & HOD

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



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

Department of Electrical and Electronics Engineering

5 days Certification Course on

	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 th∈ 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 (Good d) Excellent
8.	Any Suggestions:
	it was good certification course. They
	explained the topicy well [Approach was positical way]
	Student Name: gai Teja . Student Signature

Principal Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaraghati Main Road Bengaluru - 560 05/

1



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

Department of Electrical and Electronics Engineering

5 days Certification Course on

"Condition and assessment of High Voltage insulation in power system equipment" 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 3) Satisfactory c) Good d) Excellent
3.	Opportunity to ask questions for clarification and interaction with presenters
	a) Pcor b) Satisfactory c) Good d) Excellent
4.	Effectiveness of the Hands-on Sessions
	a) Pcor b) Satisfactory c) Good d) Excellent
5.	Topic and centents 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:
	Overal's program is good. I understand
	concepte of High voltage Industria Assermed with
	Student Name: Aigh warya Gupta Student Signature: Prote.
	Principal Sapthagiri College of Engineering 1 14/5, Chikkasandra, Heseraghan's stan Hose Bengaluru - 560 057



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

Department of Electrical and Electronics Engineering

5 days Certification Course on

"Condition and assessment of High Voltage insulation in power system equipment" 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 Hards-cn 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 course, Thanking dest-EXE
	for purely suber extents.
	Student Name: Dhatharich & Student Signature:
	Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaraghatta Main Road Bengaluru - 550 057



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

Department of Electrical and Electronics Engineering

5 days Certification Course on

"Condition and assessment of High Voltage insulation in power system equipment" 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 Hancs-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 good course experts taught well.
	Hands -on sessions was vigood
	Student Name: Mandara CK Student Signature:
	Principal Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaraghatta Main Road

Bengaluru - 560 057



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

Department of Electrical and Electronics Engineering

5 days Certification Course on

"Condition and assessment of High Voltage insulation in power system equipment" 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 Cert fication Course
	a) Poor b) Satisfactory c) Good d) Excellent
8.	Any Suggestions:
	CONCEPTS EXPLAINED WELL, HAND-ON SESSION
	WAS VERY GOOD,
	Student Name: MEGHANA B Student Signature:



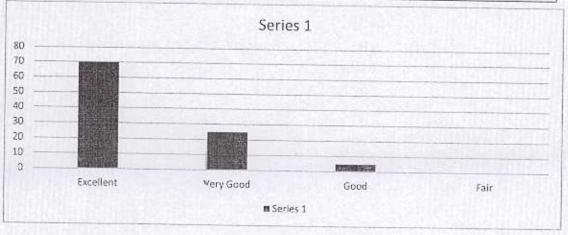
(Affiliated to Viswessa aya Technological University, Belagavi& Approved by AICTE, New Delhi)
#14/5, Ch kkasandra, Hesaraghatta Main Road, Bengaluru – 560057
Phone:080-2837280C/L/2 www.sapthagiri.edu.in Fax: 080-2837279

Department of Electrical & Electronics Engineering

FEEDBACK ANALYSIS

Certification Programme: "Condition and Assessment of High Voltage insulation in power system equipment"

No. of students participated		St	udent Feedback	
participated	Excellent	Very Good	Good	Fair
107	70	25	5	0



Action Report:

70 % of students were completely happy with the certification program and 25 % of students felt it was a good program and remaining 5 % students were satisfied 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

Sapthagiri College of Engineering 145, Chikkasandra, Hesaraghatta Main Robu Bengaluru - 560 057

HOD

PROF & HOD
Department of Electrical & Electronics Engineers
Saphagiri College of Engineering
Bangalore - 560057.





Bangalore-560057

Certificate

This i	is to Certify that Mr./Ms. SUDHEEP R - 15	918EE417		
of _	EEE	has	participated	and
succe	essfully completed Five days Certification Course	on "Condition	and Assessmen	nt of
High	Voltage Insulation in Power System Equipment"	from 25th	JAN, 2019 to	31st
JAN,	2019 organized by the Department of Elect	rical & Elect	ronics Engineer	ring,
Sapth	nagiri College of Engineering.			

Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaraghatta Main Road Bengaluru - 580 057

HOD, Dept. of EEE





Bangalore-560057

Certificate

This is to Certify that Mr./Ms	KUSHAL	D	18917E	€037		
of EEE				has	participated	and
successfully completed Five day	ys Certificatio	on Co	urse on "C	Condition	and Assessme	ent of
High Voltage Insulation in Pov	ver System Ed	quipm	ent" fro	m 25th	JAN, 2019 to	31st
JAN, 2019 organized by the	Department	of E	Electrical	& Electr	onics Enginee	ering,
Sapthagiri College of Engineer	ing.	_				

Ki?

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 580 057

HOD, Dept. of EEE



Bangalore-560057

Certificate

了安安安安安安安安安安安安安安安安安安安安安安安安安安安安安

This is to Certify that Mr./Ms.		-	
of	has	participated	and
successfully completed Five days Certification Course on "Cond	dition	and Assessmen	nt of
High Voltage Insulation in Power System Equipment" from	25th	JAN, 2019 to	31st
JAN, 2019 organized by the Department of Electrical & H	Electro	onics Engineer	ring,
Sapthagiri College of Engineering.			

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

HOD, Dept. of EEE



(Affiliated to Visvesvaraya Technological University, Belagavi& Approved by AICTE, New Dahi)
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057
Phone:080-28372800/1/2 www.sapthagiri.edu.in Fax: 080-283727

Department of Electrical & Electronics Engineering

Certificate Course Report

Department of EEE conducted Certificate Course on "Condition and assessment of High Voltage insulation in power system equipment".

Guest Speaker: Prof. Aruna M, Associate Professor, Department of EEE, Acharya Institute of Technology, Bengaluru.

Duration of the course: five days from Jan 25th 2019 to Jan 31st 2019

Course detail

Objective of the Course: The five day course made the students to be familiar with the A high-voltage power system of a complex configuration of generators, long-distance transmission lines and localized distribution networks with above- and below-ground conductors for delivering energy to users. As the voltages and powers to be transmitted increased over the past hundred years the basic dielectrics greatly improved following extensive research by industry and in specialized laboratories, where much of this work continues. It is of interest to note that paper, suitably dried and impregnated, is still used for many high-voltage applications.

The application of renewable sources – for example solar devices, wind generators, biomass generation and small hydro-plants – is becoming more important. Within ten years it might be expected that embedded generation from such sources could contribute between 10 and 20 per cent of the total power in some countries, although commercial problems may limit the developments.

Certificate course made them comfortable with the condition and assessment of High Voltage insulation in power system equipment. 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.

Sapthagiri College of Engineering 14/6, Chikksandra, Hearachaits Main Road Bengaturu - 560 057



(Affiliated to Visves/arraya Technological University, Belagavi& Approved by AlCTE, New Delhi) #14/5, Chikkasancra, Hesaraghatta Main Road, Bengaluru – 560057 Phone:080-28372800/1/2 www.sapthagiri.edu.in Fax: 080-28372797

Department of Electrical & Electronics Engineering

Schedule of Certification Course

Friday system		SESSION 2 (11.00am-12.30pm)	SESSION 3 Hands-on Session (1.00pm-4.00pm)		
		Direct-voltage systems Insulation coordination High-voltage test levels	Hands on failure of practical insulating materials		
28-1-2019 Lightning-impulse voltages Monday Switching surges		Direct-voltage tests Power system developments	Hands-on Collections at Fower-frequency voltages examples		
29-1-2019 High-voltage machines Possible insulat on failure mechanisms in rotating mazhines		CIGRE summary of expected machine insulation degradation Future of machine insulation Transformers	Hands on Earthing, handling and Connections		
30-1-2019 Basic methods for insulation Wednesday assessment Generation and measurement of test high voltages		Power-frequency voltages Very-low-frequency voltages (VLF)	Hands-on Ultrasonic method for detection of partial discharges		
31-1-2019 Thursday	Insulation resistance (IR) measurements Measurements of the dielectric dissipation factor(DDF)	Measurement of partial discharges by electrical methods Dielectric response measurements	Hands-on Water treeing in XLFE Test Conduction		

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 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 transit on 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



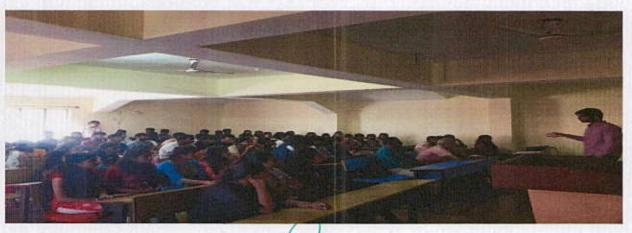
(Affiliated to Visvesvaraya Technological University, Belagavi& Approved by AICTE, New Delhi) #14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560057 Phone:080-28372800/1/2 www.sapthagiri.edu.in Fax: 080-28372797

Department of Electrical & Electronics Engineering

Certificate course 4 faculty members were identified and assigned duties and responsibilities to carry out the Certificate course.







14/5, Chikkasandra, Hesaraghatta Main Houg Bengaluru - 560 057

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