SRI SRINIVASA EDUCATIONAL & CHARITABLE TRUST (R)

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	2013-14
Branch	EEE
Name of the Student	Rashmi C.R.
USN	1SG11EE038

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?	✓				
2	How do you rate the allocation of the credits to the courses?		✓			
3	Relevance for implementation in projects	✓				
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: Certification Course is very useful for our jobs. and any practical session if they conduct it is also useful

Signature Rashmi C.R

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

SRI SRINIVASA EDUCATIONAL & CHARITABLE TRUST (R)

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STUDENTS FEEDBACK ON CURRICULUM

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Academic Year	2013-14
Branch	EEE
Name of the Student	Manoj Kumar
USN	1SJ11EE018

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?	✓				
2	How do you rate the allocation of the credits to the courses?		✓			
3	Relevance for implementation in projects	✓				
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: Note theoritical classes are there its difficult to understand the topic. If practical oriented session is there then it will be useful.

Signature Manoj

Principal
Sapthagiri College of Engineering
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STUDENTS FEEDBACK ON CURRICULUM

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Academic Year	2013-14
Branch	EEE
Name of the Student	Soumya JU
USN	1SJ12EE046

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?	✓				
2	How do you rate the allocation of the credits to the courses?		✓			
3	Relevance for implementation in projects	✓				
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: Insulation design is very important concept. If they conduct any Certification Courses then it is useful for our placement

Signature Soumya

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

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Sapthagiri College of Engineering

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Chikkasandra, Bangalore-560057

EMPLOYERS FEEDBACK ON CURRICULUM

Dear Employer,

Many graduates of our Department/College/Institution are already working in your organization. We are thankful to you for providing them employment with your prestigious Company/Organization. We shall very much appreciate and be grateful to you if you can spare some of your valuable time to fill up this feedback form. It will help us to improve the Institution further and give you better employees in future.

Name of the Employer	SACHIN BANGARASWAMY
Position	SENIOR ANALYST
Company/Organization	KANTAR

Rate the curriculum/syllabus on the following Points

SL NO	Statements	Excellent	Very good	Good	Average	Below Average
		5	4	3	2	1
1	Ability to contribute to the goal of the organization		✓			
2	Is our curriculum compatible with the industry standards			✓		
3	Is the curriculum sufficient to enable student to analyze a given problem and identify the necessary solutions		✓			
4	Creative in response to work place challenges			✓		
5	Ability and motivation for social activity		✓			
6	Technical knowledge/skill		✓			
7	Overall impression about the syllabus		✓			

Comments:

Sachin Bangaraswamy [Employee ID : 10828]
Signature

Principal
Sapthagiri College of Engineering
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Bengaluru - 560 057

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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	2013 -14
Branch	EEE
Name of the Student	Santosh Sharma
USN	1SG12EE039

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?	✓				
2	How do you rate the allocation of the credits to the courses?		✓			
3	Relevance for implementation in projects	✓				
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: Theoritical concept we wont understand better, if we will do any practical session / certification programmes on insulation then it will be useful for our future also

Signature

Principal
Sapthagiri College of Engineering
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Sapthagiri College of Engineering

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

ALUMNI FEEDBACK ON CURRICULUM

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

Year of Passing	2013-14 (2014)
Branch	EEE
Name	Niveditha A.H
Status : Work/Study	Work
Phone no	9606892967

Rate the curriculum/syllabus on the following Points

SL NO	Statements	Excellent	Very good	Good	Average	Below Average
		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		✓			
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: University has to include certification course in semester holiday once in each semester also Industrial visit.

Signature [illegible]

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

SRI SRINIVASA EDUCATIONAL & CHARITABLE TRUST (R)

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ALUMNI FEEDBACK ON CURRICULUM

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

Year of Passing	2013-14
Branch	EEE
Name	SUBRAT KUMAR MISHRA
Status : Work/Study	CMC LIMITED
Phone no	—

Rate the curriculum/syllabus on the following Points

SL NO	Statements	Excellent	Very good	Good	Average	Below Average
		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		✓			
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: Conduct certification course to Students once in a semester also industrial visit once in semester.

Signature

Subrat Kumar Mishra

Principal
Sapthagiri College of Engineering
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Bengaluru - 560 057

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ALUMNI FEEDBACK ON CURRICULUM

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

Year of Passing	2013-14
Branch	EEE
Name	Adarsh IC
Status : Work/Study	Work
Phone no	9845235835

Rate the curriculum/syllabus on the following Points

SL NO	Statements	Excellent	Very good	Good	Average	Below Average
		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		✓			
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: Certificate Course need to be conducted Once in semester

Signature Adarsh IC

Principal
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FACULTY FEEDBACK ON CURRICULUM

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

Academic Year	2013-14
Branch	EEE
Name of the Faculty	Dr. K.N. Ravi
Designation	Prof & HOD
Subject/Sub. code	10EE73

Rate the curriculum/syllabus on the following Points

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

Suggestions: Practical knowledge is required for the students in the field of high Voltage Engineering.

Signature

Principal
Sapthagiri College of Engineering
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FACULTY FEEDBACK ON CURRICULUM

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

Academic Year	2013-14
Branch	EEE
Name of the Faculty	Thansi. K.
Designation	Asst. Prof
Subject/Sub. code	10EE72

Rate the curriculum/syllabus on the following Points

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

Suggestions: practical knowledge is very important to the students. So introduce the certification courses to the students to gain the knowledge in the electrical engineering field.

Thansi Signature

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
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FACULTY FEEDBACK ON CURRICULUM

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

Academic Year	2013 - 14
Branch	EEE
Name of the Faculty	Damodharan A
Designation	Assistant Professor
Subject/Sub. code	Power System Operation & Control

Rate the curriculum/syllabus on the following Points

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

Suggestions: Industrial Visit has to be included in the Syllabus.

Signature

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FACULTY FEEDBACK ON CURRICULUM

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

Academic Year	2018 - 19
Branch	EEE
Name of the Faculty	Rekha SN
Designation	Associate Professor
Subject/Sub. code	Network Analysis

Rate the curriculum/syllabus on the following Points

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

Suggestions: practically Students were not understood about theorem. If they include Lab in this subjects it will be useful.

Signature: Rekha

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Bengaluru - 560 057

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Phone:080-28372800/1/2 www.sapthagiri.edu.in Fax: 080-28372797

Department of Electrical & Electronics Engineering

Date: 26-05-2014

CIRCULAR

This is to inform that the following Curriculum Board members are requested to attend the meeting on 26/05/2014 at 3.00pm in the HODs chamber to discuss about the analyzing of curriculum syllabus of academic year 2014-15.

Sl No.	Faculty Name	Designation	Signature
1	Dr. K N Ravi	HOD	
2	Prof. Rekha S N	Associate Professor	
3	Prof. Dhamodaran A	Assistant Professor	
4	Prof. Rukmangada R	Senior Lecturer	
5	Prof. Ashwini C	Assistant Professor	
6	Prof .Jhansi K	Assistant Professor	

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

HOD

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

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Department of Electrical & Electronics Engineering

Minutes of Meeting

With reference to the circular dated 26.05.2014 the curriculum board members assembled in HODs chamber for the following agenda.

AGENDA:

- Reviewing the department curriculum syllabus of academic year 2014-15.
- Reviewing the feedback analysis of various stakeholders for the academic year 2013-14
- Identifying the gaps.
- Action to be taken for identifying the gaps.

The following faculties were present:

Si. No.	Faculty Name	Designation	Signature
1	Dr. K N Ravi	HOD	
2	Prof. Rekha S N	Associate Professor	
3	Prof. Dhamodaran A	Assistant Professor	
4	Prof. Rukmangada R	Senior Lecturer	
5	Prof.Ashwini C	Assistant Professor	
6	Prof. Jhansi K	Assistant Professor	

The following points are discussed in the meeting

- The committee members reviewed the analysis of 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.

Sl No.	SEM	Course Title	Identified Gap
1	VII	High Voltage Engineering	Lack of practical knowledge in insulation of High Voltage

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Department of Electrical & Electronics Engineering

ACTION TAKEN:

Based on the Feedback obtained from the students, faculties alumni and employers analysis of syllabus by academic committee members it was decided to conduct certification course on Insulation to overcome the gaps identified in the curriculum/syllabus.

Co-ordinator

HOD, EEE

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

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

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Department of Electrical & Electronics Engineering

To

Date:28.05.2014

IQAC Co-ordinator

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 2014-15.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 for the academic year 2014-15.So I request you to forward and get the approval from governing council for the same.

Thanking you

Enclosure: Budget Proposal.

Forwarded for approval & satisfaction

HOD EEE

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

Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
Bangalore-560 0[illegible]

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Department of Electrical & Electronics Engineering

To,

IQAC Coordinator
Sapthagiri College of Engineering
Bangalore - 560057.

Respected Sir,

Subject: Budget proposal for conduction of certification program on "Design of external insulation from DC permanent voltage under polluted condition"

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 "Design of external insulation from DC permanent voltage under polluted condition" from 27th -Jan-2015 to 31st -Jan-2015.

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.3500 for the conduction of the above mentioned program and oblige.

Estimated Budget

Sl. No.	Item	Quantity	Unit Cost in Rs.	Total cost in Rs.
1	Certificates	100	20	2000
2	others			1500
Grand Total				**3500**

Thanking You,

HOD,EEE

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

Forwarded to the IQC for the approval & satisfaction

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

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Department of Electrical & Electronics Engineering

03-01-2015

CIRCULAR

This is to inform that the following Curriculum Board members are requested to attend the meeting on 06/01/2015 at 10.30AM in the HODs chamber to discuss about the certification course.

Sl No.	Faculty Name	Designation	Signature
1	Dr. K N Ravi	HOD	
2	Prof. Rekha SN	Associate Professor	
3	Prof. Dhamodaran A	Assistant Professor	
4	Prof. Jhansi K	Assistant Professor	
5	Prof. Ashwini C	Assistant Professor	
6	Prof. Rukmangada R	Senior Lecturer	

Principal
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Bangalore-560 057

HOD,EEE

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

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Department of Electrical &Electronics Engineering

Date:03-01-2015

To,

Dr Muralidhar,
Associate Professor,
Jain University,
Bangalore-562112.

Respected Sir,

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

Department of Electrical and Electronics Engineering have planned to conduct a certification program "Design of External Insulation from DC permanent voltage under polluted condition"for EEE Dept. students from 27-01-2015to 31-01-2015. 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 6/01/2015 10.30AM We look forward to welcome you at SCE.

Thanking you

Yours faithfully

HOD,EEE

PROF & HOD
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Department of Electrical & Electronics Engineering

Minutes of Meeting

A meeting was conducted on 06-Jan-2015 in EEE HOD's Chamber to discuss and approve the following about the 5 days Certification Course for EEE Dept. Students.

- **Course Title :** "Design of external insulation from DC permanent voltage under polluted condition"
- **Resource Personnel:** Dr Muralidhar, Associate Professor, Jain University, Bangalore-562112.
- **Course Duration & Date**: 5 Days from 27th -Jan-2015 to 31st -Jan-2015
- **Course Content** :

Dates	SESSION 1 (9.00am-10.30am)	SESSION 2 (11.00am-12.30pm)	SESSION 3 Hands-on Session (1.30pm-4.00pm)
27-01-2015 Tuesday	• Introduction mechanism of flash0ver under pollution Contamination mechanism • To identify the mechanisms responsible for these differences	• Models of this kind are described, in connection with simple • geometries, in As an example, the model firstly defined by Alston	• Hands on Polluted strip between two electrodes. The distance between • these electrodes
28-01-2015 Wednesday	• The limit of the polluted surface, • both as regards to surface water density	• heat flow. • surface conductivity	• Hands on Collections system of DC permanenet voltage
29-01-2015 Thursday	• The conditions of water mass • balance and heat balance within an infinitesimal element of the surface in ar.	• Zoledziowski is considered which refers to the simple case of a flat	• Hands on Arrangement balance and heat balance on polluted air condition
30-01-2015 Friday	• As regards the dynamic characteristics of the pollution layer during wetting	• Dry band formation, up to the ignition ofthe first arc • define, respectively, the conditions of water mass •	• Hands on Design of Insulation
31-01-2015 Saturday	• it is Necessary to have a knowledge of the relation between the concentration of surface wetness	• electrical conductivity as well as the boundary conditions • Wet band formation	• Hands on Design of External Insulation and test

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Department of Electrical & Electronics Engineering

The following Curriculum board members were present

Sl No.	Faculty Name	Designation	Signature
1	Dr. K N Ravi	HOD	
2	Prof. Rekha SN	Associate Professor	
3	Prof. Damodardaran A	Assistant Professor	
4	Prof. Jhansi K	Assistant Professor	
5	Prof. Ashwini C	Assistant Professor	
6	Prof. Rukmangada R	Senior Grade Lecture	
7	Dr Muralidhar	Guest Speaker	

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Department of Electrical & Electronics Engineering

NOTICE

As a part of programming skill development Department of Electrical and Electronics Engineering is conducting Five days Certification Course "Design of external insulation from DC permanent voltage under polluted condition" from 27th -Jan-2015 to 31st -Jan-2015.

All the Semester EEE Dept. students must attend the course compulsorily.

Signature of HoD

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Department of Electrical & Electronics Engineering

Certification Program: "Design of external insulation from DC permanent voltage under polluted condition"

Lesson Planner

Dates	SESSION 1 (9.00am-10.30am)	SESSION 2 (11.00am-12.30pm)	SESSION 3 Hands-on Session (1.30pm-4.00pm)	No. of Hours
27-01-2015 Tuesday	• Introduction mechanism of flash0ver under pollution Contamination mechanism • To identify the mechanisms responsible for these differences	• Models of this kind are described, in connection with simple • geometries, in As an example, the model firstly defined by Alston	• Hands on Polluted strip between two electrodes. The distance between • these electrodes	6
28-01-2015 Wednesday	• The limit of the polluted surface, • both as regards to surface water density	• heat flow. • surface conductivity	• Hands on Collections system of DC permanenet voltage	6
29-01-2015 Thursday	• The conditions of water mass • balance and heat balance within an infinitesimal element of the surface in ar.	• Zoledziowski is considered which refers to the simple case of a flat	• Hands on Arrangement balance and heat balance on polluted air condition	6
30-01-2015 Friday	• As regards the dynamic characteristics of the pollution layer during wetting	• Dry band formation, up to the ignition ofthe first arc • define, respectively, the conditions of water mass •	• Hands on Design of Insulation	6
31-01-2015 Saturday	• it is Necessary to have a knowledge of the relation between the concentration of surface wetness	• electrical conductivity as well as the boundary conditions • Wet band formation	• Hands on Design of External Insulation and Test	6
			Total	30

HOD

GUEST SPEAKER

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Department of Electrical and Electronics Engineering

5 days Certification Program on

"Design of External Insulation from DC permanent voltage under polluted condition"

Students Enrollment **Academic year(2014-15)**

S.No	USN	Student Name	Signature
1	1SG05EE020	KARTHIK.V.S	
2	1SG05EE042	RANSHITH. M	
3	1SG09EE002	AJAY KUMAR	
4	1SG09EE025	KISHORE KUMAR. M.V	
5	1SG10EE048	SURABHI JOSHI	
6	1SG11EE001	A. BRINDHA	
7	1SG11EE002	ABHINAV KUMAR	
8	1SG11EE003	ANJALI	
9	1SG11EE004	ANKAN NANDI	
10	1SG11EE005	ANURAG KUMAR	
11	1SG11EE006	APPU PRASAD	
12	1SG11EE007	ASHWIN J	
13	1SG11EE008	CHAITRA S	
14	1SG11EE009	CHANDAN KUMAR	
15	1SG11EE011	DIWAKAR. V	
16	1SG11EE012	GAYATHRI. S	
17	1SG11EE013	GURUMURTHY	
18	1SG11EE015	HEMALATHA. H	
19	1SG11EE016	JAILS ROSHAN TIGGA	
20	1SG11EE017	JAYASHREE G MATH	
21	1SG11EE018	MANOJ KUMAR	
22	1SG11EE020	MOHAMMED HABEEB	
23	1SG11EE021	MONAMI SRIVASTAVA	
24	1SG11EE022	MONICA.A	
25	1SG11EE024	NAGARJUN.K	
26	1SG11EE027	NIKHIL	
27	1SG11EE028	NIKITHA R DESHPANDE	
28	1SG11EE029	PAVITHRA. N	
29	1SG11EE030	PRAHARSHA. S	
30	1SG11EE031	PRASHANTH KUMAR. G	
31	1SG11EE032	PRINCE MISHRA	
32	1SG11EE033	PRONNOY ROY C	
33	1SG11EE036	RAKESH. D	
34	1SG11EE038	RESHMI. C.R	
35	1SG11EE041	SAMEEKSHA. M	
36	1SG11EE042	SANJANA JOHN	
37	1SG11EE043	SHAIKH MD ILYAS	

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Department of Electrical and Electronics Engineering

38	1SG11EE045	SHUBHAM KUMAR	Shubham
39	1SG11EE046	SNEHA SUSI.S	Sneha Susi
40	1SG11EE047	SOURABH. B.M	Sourabh B.M
41	1SG11EE048	SOWMYA. N	Sowmya N.
42	1SG11EE049	SUBRAT KUMAR MISHRA	
43	1SG11EE050	S. SUGANYA	
44	1SG11EE051	SUPREETH. S	Supreeth S.
45	1SG11EE054	TEJASWINI. H.J	Tejaswini
46	1SG11EE056	VIKRAM KUMAR	Vikram Kumar
47	1SG11EE057	YASHASWINI. S	
48	1SG10EE404	LAVANYA.M	Lavanya M
49	1SG11EE405	PRAVEEN KUMAR B Y	
50	1SG12EE400	ADARSH. K.	Adarsh K.
51	1SG12EE402	DEEPAK. N.	Deepak.
52	1SG12EE404	PREMALATHA. B.	Premalatha
53	1SG12EE408	SANTHOSH KUMAR. M	
54	1SG12EE409	VANI G.A.	Vani
55	1SG12EE410	VEERESH. K.R.	Veresh.

Theresa
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Department of Electrical and Electronics Engineering

5 days Certification Program on

"Design of External Insulation from DC permanent voltage under polluted condition"

Students Enrollment Academic Year(2014-15)

S.No	USN	Student Name	Signature
1	1SG12EE002	AJAY KUMAR R	
2	1SG12EE003	ALOK KHAN	
3	1SG12EE004	AMIT KUMAR RAY	
4	1SG12EE005	ANSHU KUMAR	
5	1SG12EE006	ARPITA GHOSH	
6	1SG12EE007	ARVIND KUMAR	
7	1SG12EE009	ASHUTOSH KUMAR	
8	1SG12EE010	AVINASH KUMAR SINGH	
9	1SG12EE012	BHAGYALAKSHMI N	
10	1SG12EE013	BHAVYASHREE M	
11	1SG12EE014	CHANDRA PRAKASH KUMAR	
12	1SG12EE015	DIWYANSHU KUMAR	
13	1SG12EE016	FARHEENA K	
14	1SG12EE017	G DINESH KUMAR	
15	1SG12EE019	HARI KISHORE M G	
16	1SG12EE021	JAYANTH K	
17	1SG12EE022	JYOTHI KUMARI	
18	1SG12EE023	KRISHNA KIRITI V	
19	1SG12EE024	KUSUMA D N	
20	1SG12EE025	LEKHA SHREE C B	
21	1SG12EE027	MRITUNJAY KUMAR PRAVIN	
22	1SG12EE028	NAGASHREE K N	
23	1SG12EE030	NAVJYOT PRINCE	
24	1SG12EE031	NISHANTH K	
25	1SG12EE032	NITHIN KALYAN KUMAR	
26	1SG12EE033	NUNKESH L	
27	1SG12EE034	RAJESH VASUDEVAN NAIR	
28	1SG12EE035	RAVI PRAKASAH	
29	1SG12EE037	SABARISH N	
30	1SG12EE038	SANDEEPA	
31	1SG12EE039	SANTOSH SHARMA	
32	1SG12EE040	SATENDRA KUMAR SINGH	
33	1SG12EE041	SAURAV SHAILENDRA	
34	1SG12EE042	SHAILENDRA KUMAR SINGH	
35	1SG12EE043	SHREYA VIJAYENDRA KULAKARNI	
36	1SG12EE045	SONALI KUMARI	
37	1SG12EE046	SOWMYA Y U	

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S.No	USN	Student Name	Signature
38	1SG12EE047	SUBRAHMANYA SHRIDHARA SHASTRI	
39	1SG12EE048	SUDHANSHU	Sudhanshu
40	1SG12EE049	SUMITH	
41	1SG12EE050	SUSHMITHA C	
42	1SG12EE051	UMA KARTHIK H S	
43	1SG12EE052	V. NAVEEN	
44	1SG12EE053	VAISHAK CHANDRAN	
45	1SG12EE054	VANAJAKSHI. M	

Thanks
[Co-ordinator]

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Department of Electrical and Engineering

5 days Certification Program on

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Attendance

Academic Year (2014-15)

Sl. No	USN	Student Name	27-01-2015		28-01-2015		29-01-2015		30-01-2015		31-01-2015		
			MS	AS	MS	AS	MS	AS	MS	AS	MS	AS	Test
1	1SG12EE002	AJAY KUMAR R	P	P	P	P	P	P	P	P	P	P	P
2	1SG12EE003	ALOK KHAN	P	P	P	P	P	P	P	P	P	P	P
3	1SG12EE004	AMIT KUMAR RAY	P	P	P	P	P	P	P	P	P	P	P
4	1SG12EE005	ANSHU KUMAR	P	P	P	P	P	P	P	P	P	P	P
5	1SG12EE006	ARPITA GHOSH	P	P	P	P	P	P	P	P	P	P	P
6	1SG12EE007	ARVIND KUMAR	P	P	P	P	P	P	P	P	P	P	P
7	1SG12EE009	ASHUTOSH KUMAR	P	P	P	P	P	P	P	P	P	P	P
8	1SG12EE010	AVINASH KUMAR SINGH	P	P	P	P	P	P	P	P	P	P	P
9	1SG12EE012	BHAGYALAKSHMI N	P	P	P	P	P	P	P	P	P	P	P
10	1SG12EE013	BHAVYASHREE M	P	P	P	P	P	P	P	P	P	P	P
11	1SG12EE014	CHANDRA PRAKASH KUMAR	P	P	P	P	P	P	P	P	P	P	P
12	1SG12EE015	DIWYANSHU KUMAR	P	P	P	P	P	P	P	P	P	P	P
13	1SG12EE016	FARHEENA K	P	P	P	P	P	P	P	P	P	P	P
14	1SG12EE017	G DINESH KUMAR	P	P	P	P	P	P	P	P	P	P	P
15	1SG12EE019	HARI KISHORE M G	P	P	P	P	P	P	P	P	P	P	P
16	1SG12EE021	JAYANTH K	P	P	P	P	P	P	P	P	P	P	P
17	1SG12EE022	JYOTHI KUMARI	P	P	P	P	P	P	P	P	P	P	P
18	1SG12EE023	KRISHNA KIRITI V	P	P	P	P	P	P	P	P	P	P	P
19	1SG12EE024	KUSUMA D N	P	P	P	P	P	P	P	P	P	P	P
20	1SG12EE025	LEKHA SHREE C B	P	P	P	P	P	P	P	P	P	P	P
21	1SG12EE027	MRITUNJAY KUMAR PRAVIN	P	P	P	P	P	P	P	P	P	P	P
22	1SG12EE028	NAGASHREE K N	P	P	P	P	P	P	P	P	P	P	P
23	1SG12EE030	NAVJYOT PRINCE	P	P	P	P	P	P	P	P	P	P	P
24	1SG12EE031	NISHANTH K	P	P	P	P	P	P	P	P	P	P	P
25	1SG12EE032	NITHIN KALYAN KUMAR	P	P	P	P	P	P	P	P	P	P	P
26	1SG12EE033	NUNKESH L	P	P	P	P	P	P	P	P	P	P	P
27	1SG12EE034	RAJESH VASUDEVAN NAIR	P	P	P	P	P	P	P	P	P	P	P
28	1SG12EE035	RAVI PRAKASAH	P	P	P	P	P	P	P	P	P	P	P
29	1SG12EE037	SABARISH N	P	P	P	P	P	P	P	P	P	P	P
30	1SG12EE038	SANDEEPA	P	P	P	P	P	P	P	P	P	P	P
31	1SG12EE039	SANTOSH SHARMA	P	P	P	P	P	P	P	P	P	P	P
32	1SG12EE040	SATENDRA KUMAR SINGH	P	P	P	P	P	P	P	P	P	P	P
33	1SG12EE041	SAURAV SHAILENDRA	P	P	P	P	P	P	P	P	P	P	P
34	1SG12EE042	SHAILENDRA KUMAR SINGH	P	P	P	P	P	P	P	P	P	P	P
35	1SG12EE043	SHREYA VIJAYENDRA	P	P	P	P	P	P	P	P	P	P	P
36	1SG12EE045	SONALI KUMARI	P	P	P	P	P	P	P	P	P	P	P
37	1SG12EE046	SOWMYA Y U	P	P	P	P	P	P	P	P	P	P	P
38	1SG12EE047	SUBRAHMANYA SHRIDHARA	P	P	P	P	P	P	P	P	P	P	P
39	1SG12EE048	SUDHANSHU	P	P	P	P	P	P	P	P	P	P	P
40	1SG12EE049	SUMITH	P	P	P	P	P	P	P	P	P	P	P
41	1SG12EE050	SUSHMITHA C	P	P	P	P	P	P	P	P	P	P	P

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Department of Electrical and Engineering

Sl. No	USN	Student Name	27-01-2015		28-01-2015		29-01-2015		30-01-2015		31-01-2015		
			MS	AS	MS	AS	MS	AS	MS	AS	MS	AS	Test
42	1SG12EE051	UMA KARTHIK H S	P	P	P	P	P	P	P	P	P	P	P
43	1SG12EE052	V. NAVEEN	P	P	P	P	P	P	P	P	P	P	P
44	1SG12EE053	VAISHAK CHANDRAN	P	P	–	P	P	P	P	P	P	–	P
45	1SG12EE054	VANAJAKSHI. M	P	P	P	P	P	P	P	P	P	P	P
Signature			@	@	@	@	@	@	@	@	@	@	@

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5 days Certification Program on

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Attendance

Academic Year (2014-15)

Sl. No	USN	Student Name	27-01-2015		28-01-2015		29-01-2015		30-01-2015		31-01-2015		
			MS	AS	MS	AS	MS	AS	MS	AS	MS	AS	Test
1	1SG05EE020	KARTHIK.V.S	P	P	P	P	P	P	P	P	P	P	P
2	1SG05EE042	RANSHITH. M	P	P	P	P	P	P	P	P	P	P	P
3	1SG09EE002	AJAY KUMAR	P	P	P	P	P	P	P	P	P	P	P
4	1SG09EE025	KISHORE KUMAR. M.V	P	P	P	P	P	P	P	P	P	P	P
5	1SG10EE048	SURABHI JOSHI	P	P	P	P	P	P	P	—	P	P	P
6	1SG11EE001	A. BRINDHA	P	P	P	P	P	–	P	P	P	P	P
7	1SG11EE002	ABHINAV KUMAR	P	P	P	P	P	–	P	P	P	P	P
8	1SG11EE003	ANJALI	P	–	P	P	P	P	P	P	P	P	P
9	1SG11EE004	ANKAN NANDI	P	P	P	P	P	P	P	P	P	P	P
10	1SG11EE005	ANURAG KUMAR	P	–	P	P	P	–	P	P	P	P	P
11	1SG11EE006	APPU PRASAD	P	P	P	P	P	–	P	P	P	P	P
12	1SG11EE007	ASHWIN J	P	–	P	P	P	P	P	P	P	P	P
13	1SG11EE008	CHAITRA S	P	–	P	P	P	P	P	P	P	P	–
14	1SG11EE009	CHANDAN KUMAR	P	P	P	P	P	P	–	P	P	P	–
15	1SG11EE011	DIWAKAR. V	P	P	P	P	P	P	–	P	P	P	P
16	1SG11EE012	GAYATHRI. S	P	P	–	P	P	P	P	P	P	P	P
17	1SG11EE013	GURUMURTHY	P	P	P	P	P	P	P	P	P	P	–
18	1SG11EE015	HEMALATHA. H	P	P	P	P	P	P	P	P	P	P	P
19	1SG11EE016	JAILS ROSHAN TIGGA	P	P	P	P	P	P	P	P	P	P	P
20	1SG11EE017	JAYASHREE G MATH	P	P	P	P	P	P	P	P	P	P	P
21	1SG11EE018	MANOJ KUMAR	P	P	P	P	P	P	P	P	P	P	P
22	1SG11EE020	MOHAMMED HABEEB	P	P	P	P	P	P	P	P	P	P	P
23	1SG11EE021	MONAMI SRIVASTAVA	P	P	P	P	P	P	P	—	P	P	P
24	1SG11EE022	MONICA.A	P	P	P	P	P	P	P	—	P	P	P
25	1SG11EE024	NAGARJUN.K	P	P	P	P	P	P	P	P	P	P	P
26	1SG11EE027	NIKHIL	P	P	P	P	P	P	P	–	P	P	P
27	1SG11EE028	NIKITHA R DESHPANDE	P	P	P	P	P	P	P	P	P	P	P
28	1SG11EE029	PAVITHRA. N	P	P	P	P	P	P	P	P	P	P	P
29	1SG11EE030	PRAHARSHA. S	P	P	–	P	P	P	P	P	P	P	P
30	1SG11EE031	PRASHANTH KUMAR. G	P	P	P	P	–	P	P	P	P	P	P
31	1SG11EE032	PRINCE MISHRA	P	P	–	P	P	P	P	P	—	P	P
32	1SG11EE033	PRONNOY ROY C	P	P	P	P	P	P	P	P	P	P	P
33	1SG11EE036	RAKESH. D	P	P	—	P	P	P	P	P	P	P	P
34	1SG11EE038	RESHMI. C.R	P	P	P	P	P	P	P	P	P	P	P
35	1SG11EE041	SAMEEKSHA. M	P	P	P	P	P	P	P	P	P	P	P
36	1SG11EE042	SANJANA JOHN	P	P	—	P	P	P	P	P	P	P	P
37	1SG11EE043	SHAIKH MD ILYAS	P	P	–	P	P	P	P	P	P	P	P
38	1SG11EE045	SHUBHAM KUMAR	P	P	P	—	P	P	P	P	P	P	P
39	1SG11EE046	SNEHA SUSI.S	P	P	P	P	P	P	P	P	P	P	P
40	1SG11EE047	SOURABH. B.M	P	P	P	P	—	P	P	P	P	P	P
41	1SG11EE048	SOWMYA. N	P	P	P	P	P	P	P	P	—	P	P

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Department of Electrical and Engineering

Sl. No	USN	Student Name	27-01-2015		28-01-2015		29-01-2015		30-01-2015		31-01-2015		
			MS	AS	MS	AS	MS	AS	MS	AS	MS	AS	Test
42	1SG11EE049	SUBRAT KUMAR MISHRA	P	P	P	P	P	P	P	P	P	P	P
43	1SG11EE050	S. SUGANYA	P	P	P	–	P	P	P	P	P	P	P
44	1SG11EE051	SUPREETH. S	P	P	P	P	P	P	P	–	P	P	P
45	1SG11EE054	TEJASWINI. H.J	P	P	P	P	P	P	P	P	P	P	–
46	1SG11EE056	VIKRAM KUMAR	P	P	P	P	P	P	P	P	P	P	P
47	1SG11EE057	YASHASWINI. S	P	P	P	P	P	P	P	P	P	P	P
48	1SG10EE404	LAVANYA.M	P	P	P	–	P	P	P	P	P	P	P
49	1SG11EE405	PRAVEEN KUMAR B Y	–	P	P	P	P	P	P	P	P	P	P
50	1SG12EE400	ADARSH. K.	P	P	P	P	P	P	P	P	P	P	P
51	1SG12EE402	DEEPAK. N.	P	P	P	P	P	P	P	P	P	P	P
52	1SG12EE404	PREMALATHA. B.	P	–	P	P	P	P	P	P	–	P	P
53	1SG12EE408	SANTHOSH KUMAR. M	P	P	P	P	P	P	P	P	P	P	P
54	1SG12EE409	VANI G.A.	P	P	P	P	P	P	P	P	P	P	P
55	1SG12EE410	VEERESH. K.R.	P	P	P	P	–	P	P	P	P	P	P
		Signature											

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Department of Electrical & Electronics Engineering

5 days Certification Course on

"Design of external insulation from DC permanent voltage under polluted condition"

Test Time Table

Sl. No.	DATE	DAY	TIMINGS
1	31-01-2015	Saturday	3.00PM-4.00PM

HOD,EEE

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Department of Electrical & Electronics Engineering

5 days Certification Course on

"Design of external insulation from DC permanent voltage under polluted condition"

Question Paper

Duration :1hr **Maximum marks :**20

Note: Question number 1-20 (1M each)

Answer all the Questions:

Q1. In an electromagnet

a) Current must flow through the coil to produce magnetic field
b) The magnetic field has the same strength with or without current
c) Current must flow but no voltage need be applied across the coil
d) The coil must have high resistance for minimum coil current

2. The motor action in a wire conducting current can be produced
a) Without any additional magnetic field
b) By moving the conductor from a weaker field towards stronger field
c) By moving the conductor from stronger field towards weaker field
d) By producing the motion by not rotation

3. The requirement for producing induced voltage is
a) Magnetic flux moving across a conductor
b) Magnetic flux moving across a dielectric
c) An insulated wire free from any external magnetic field
d) A bare wire moving parallel to an external magnetic field

4. A 5:1 voltage step up transformer has 120 volts across the primary and 600 ohms resistance across the secondary. Assuming 100% efficiency the primary current equals
a) 1/5 amp
b) 500 ma
c) 10 amps
d) 20 amps
e) 5 amps

5. In a transformer, the voltage induced in the secondary winding must always be 90 degree out of phase with the
a) Primary voltage
b) Primary current
c) Secondary voltage
d) Secondary current

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6. A ferrite core has less eddy-current loss than an iron a core because

a) Ferrites have low resistance
b) Ferrites have high resistance
c) Ferrites have low permeability
d) Ferrites have high hysteresis

7. Which of the following motors is usually used in household refrigerators?
a) D.c. shunt motor
b) Reluctance motor
c) Single phase induction motor (split phase start or induction run motor)
d) Synchronous motor

8. If the refrigerator unit runs continuously maintaining cabinet coil, the failure of unit is attributed to
a) Extreme hot weather conditions
b) Poor door seal at gasket
c) Defective motor
d) Defective thermostat

9. The maximum temperature permitted for Class A insulation is

a) 180° C
b) 105° C
c) 120° C
d) 155° C

10. The cotton, silk paper, and wood are
a) Class A insulation
b) Class Y insulation
c) Class H insulation
d) Class B insulation

11. Rheostatic breaking gives greater braking torque than plugging.
a) True
b) False

12. Which of the following rules states that the direction of an induced current is always such that the magnetic field which it produces reacts in opposition to the change of flux.
a) Thumb rule
b) Lenz's law
c) Kirchhoff's law
d) Faraday's law

13. What conditions are necessary for an induced voltage to be created by means of rotation.
a) A magnetic field
b) Movably placed loops conductors (turns)

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c) Lump conductors
d) (a) and (b) both

14. In the following diagram of a line conductor, in which direction do the magnetic lines of force run if the observer is looking in the direction of current?
a) Counter-clockwise around the conductor
b) Clockwise around the conductor
c) Around the conductor
d) Outside the conductor

15. Which of the following rule is applied to above question to field direction of magnetic lines?
a) Left-hand rule
b) Right-hand rule
c) Corkscrew rule
d) Lenz's law

16.The utilization factor is maximum for
a) Three-phase mercury arc rectifier
b) Six-phase mercury arc rectifier
c) twelve-phase mercury arc rectifier
d) Single phase mercury arc rectifier

17. If the air gap of the induction motor is increased
a) The power factor will increase
b) The power factor will decrease
c) The magnetizing current of the rotor will increase
d) The magnetizing current of the rotor will decrease
e) The speed of the motor will decrease

18. The squirrel cage induction motor has
a) One slip rings
b) two slip rings
c) three slip rings
d) zero slip rings

19. What will happen if the supply terminals of d.c. shunt motor are interchanged
a) motor will stop
b) motor will run at its normal speed in the same direction as it was running
c) the direction of rotation will reverse
d) motor speed will increase

20. An amplidyne can be used as
a) a d.c. series motor
b) a d.c. shunt motor
c) a d.c. compound motor
d) magnetic amplifier

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Approved by Academic Committee Members & HOD

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1	Dr. K N Ravi	HOD	
2	Prof. Rekha SN	Associate Professor	
3	Prof. Dhamodaran A	Assistant Professor	
4	Prof. Jhansi K	Assistant Professor	
5	Prof. Ashwini C	Assistant Professor	
6	Prof. Rukmangada R	Senior Lecturer	
7	Dr Muralidhar	Guest Speaker	

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Department of Electrical & Electronics Engineering

5 days Certification Course on

"Design of external insulation from DC permanent voltage under polluted condition"

Solutions for the Questions

Note: Question number 1-20 (1M each)

Answer all the Questions:

Q1. In an electromagnet
a)Current must flow through the coil to produce magnetic field
b) The magnetic field has the same strength with or without current
c) Current must flow but no voltage need be applied across the coil
d) The coil must have high resistance for minimum coil current
Option a

2. The motor action in a wire conducting current can be produced
a) Without any additional magnetic field
b) By moving the conductor from a weaker field towards stronger field
c) By moving the conductor from stronger field towards weaker field
d) By producing the motion by not rotation
Option c

3. The requirement for producing induced voltage is
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b) Magnetic flux moving across a dielectric
c) An insulated wire free from any external magnetic field
d) A bare wire moving parallel to an external magnetic field
Option a

4. A 5:1 voltage step up transformer has 120 volts across the primary and 600 ohms resistance across the secondary. Assuming 100% efficiency the primary current equals
a) 1/5 amp
b) 500 ma
c) 10 amps
d) 20 amps
e) 5 amps
Option c

5. In a transformer, the voltage induced in the secondary winding must always be 90 degree out of phase with the

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a) Primary voltage

b) Primary current

c) Secondary voltage

d) Secondary current

Option d

6. A ferrite core has less eddy-current loss than an iron a core because

a) Ferrites have low resistance

b) Ferrites have high resistance

c) Ferrites have low permeability

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Option d

7. Which of the following motors is usually used in household refrigerators?

a) D.c. shunt motor

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Option c

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b) Poor door seal at gasket

c) Defective motor

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Option d

9. The maximum temperature permitted for Class A insulation is

a) 180° C

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c) 120° C

d) 155° C

Option d

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10. The cotton, silk paper, and wood are

a) Class A insulation

b) Class Y insulation

c) Class H insulation

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Option a

11. Rheostatic breaking gives greater braking torque than plugging.
a) True
b) False
Option b

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a) Thumb rule

b) Lenz's law

c) Kirchhoff's law

d) Faraday's law

Option d

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Option c

14. In the following diagram of a line conductor, in which direction do the magnetic lines of force run if the observer is looking in the direction of current?

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c) Around the conductor

d) Outside the conductor

Option d

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d) Lenz's law

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Option b

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b) Six-phase mercury arc rectifier

c) twelve-phase mercury arc rectifier

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Option a

17. If the air gap of the induction motor is increased

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Option d

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b) motor will run at its normal speed in the same direction as it was running

c) the direction of rotation will reverse

d) motor speed will increase

Option a

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a) a d.c. series motor

b) a d.c. shunt motor

c) a d.c. compound motor

d) magnetic amplifier

Option c

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Department Of Electrical And Electronics And Engineering

5 days Certification Course on "DESIGN OF EXTERNAL INSULATION FROM DC PERMANENT VOLTAGE UNDER POLLUTED CONDITION"

Participant Feedback

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

   a) Poor b) Satisfactory c) Good d) Excellent

2. How appropriate were the facilities provided?

   a) Poor b) Satisfactory c) Good d) Excellent

3. Opportunity to ask questions for clarification and interaction with presenters

   a) Poor b) Satisfactory c) Good d) Excellent

4. Effectiveness of the Hands-on Sessions

   a) Poor b) Satisfactory c) Good d) Excellent

5. Topic and contents of the Certification Course

   a) Poor b) Satisfactory c) Good d) Excellent

6. How do you rate the Certification Course compared to other workshops that you have attended?

   a) Poor b) Satisfactory c) Good d) Excellent

7. Generally how was your overall experience during the Certification Course

   a) Poor b) Satisfactory c) Good d) Excellent

8. Any Suggestions:

Course require more practical session regarding polluted condition. Design of external insulation we understood better.

Student Name: LAVANYA M.

Lavanya M.

Student Signature

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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. Thanks. Hands on sessions were good. Need more like this.

Kishore Kumar

Student Name:

Kishore

Student Signature

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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. More videos has to be shown. Practicals were good

Tayashree. G.M.

Student Name:

Tayashree G.M.

Student Signature

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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:

   Course was good & beneficial.

Manoj Kumar

Student Name:

Principal
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Bengaluru - 560 057

Manoj

Student Signature

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Department Of Electrical And Electronics And Engineering

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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. More Practical sessions are reqd.

Chandan Kumar

Student Name:

Chandan

Student Signature

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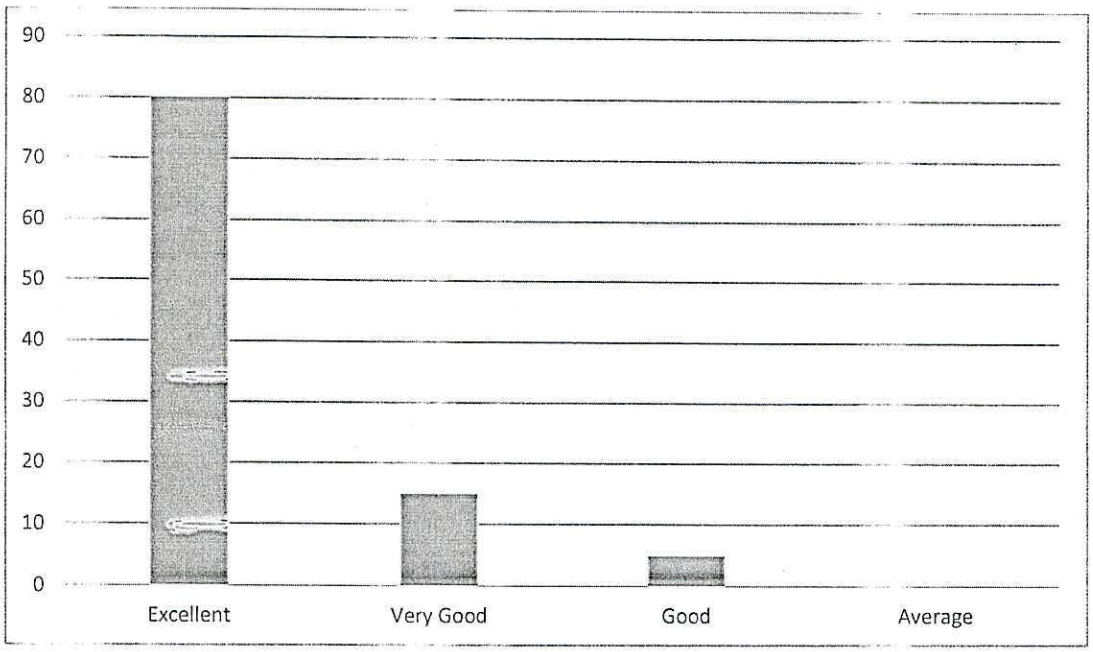
FEEDBACK ANALYSIS

Certification Programme: "Design of external insulation from DC permanent voltage under polluted condition"

No. of students	Student Feedback(in %)			
	Excellent	Very Good	Good	Average
25	80	15	5	0



Action Report:

80 % of students were completely happy with the certification program and 15 % 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

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Certificate

This is to Certify that Mr./Ms. Hemalatha. H

of EEE has participated and successfully completed Five days Certification Course on "Design of External Insulation from DC Permanent Voltage Under Polluted Condition" from 27th Jan, 2015 to 31st Jan, 2015 organized by the Department of Electrical & Electronics Engineering, Sapthagiri College of Engineering.

HOD, Dept. of EEE
Department of Electrical & Electronics Engineering
Sapthagiri College of Engineering
Bangalore - 560057.

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

Principal

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Certificate

This is to Certify that Mr./Ms. Nagarjun. K

of EEE has participated and successfully completed Five days Certification Course on *"Design of External Insulation from DC Permanent Voltage Under Polluted Condition"* from 27th Jan, 2015 to 31st Jan, 2015 organized by the Department of Electrical & Electronics Engineering, Sapthagiri College of Engineering.

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HOD, Dept. of EEE
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Bangalore-560057

Certificate

This is to Certify that Mr./Ms. Sneha Susi. S

of EEE has participated and successfully completed Five days Certification Course on *"Design of External Insulation from DC Permanent Voltage Under Polluted Condition"* from 27th Jan, 2015 to 31st Jan, 2015 organized by the Department of Electrical & Electronics Engineering, Sapthagiri College of Engineering.

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HOD, Dept. of EEE

Principal

Principal
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Sapthagiri College of Engineering

Bangalore-560057

Certificate

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Department of Electrical & Electronics Engineering

Certificate Course Report

Department of EEE conducted Certificate Course on: "Design of external insulation from DC permanent voltage under polluted condition"

Guest Speaker: Dr Muralidhar, Associate Professor, Jain University, Bangalore-562112.

Duration of the course: five days from Jan 27th 2015 to Jan 31st 2015

Course detail:

Objective of the Course: The five day course made the students to be familiar with the topic. The importance of fulfilling the requirements. The high voltage DC transmission lines and links up to 600 kV are already operational in many countries .The strong development of HVDC system in the last decade has brought new experiences and has motivated extensive investigations in several fields in order to achieve a higher reliability and an optimum design.

With reference to the insulation coordination aspect the investigations were mainly focused on the performance of insulators in polluted condition because service experience indicates that a sensible fraction of faults were definitely caused by pollution events, under operating voltage.

Schedule of Certification Course

Dates	SESSION 1 (9.00am-10.30am)	SESSION 2 (11.00am-12.30pm)	SESSION 3 Hands-on Session (1.30pm-4.00pm)	No. of Hours
27-01-2015 Tuesday	• Introduction mechanism of flashover under pollution Contamination mechanism • To identify the mechanisms responsible for these differences	• Models of this kind are described, in connection with simple • geometries, in As an example, the model firstly defined by Alston	• Hands on Polluted strip between two electrodes. The distance between • these electrodes	6
28-01-2015 Wednesday	• The limit of the polluted surface,both as regards to surface water density	• heat flow. • surface conductivity	• Hands on Collections system of DC permanenet voltage	6
29-01-2015 Thursday	• The conditions of water mass • balance and heat balance within an infinitesimal element of the surface in ar.	• Zoledziowski is considered which refers to the simple case of a flat	• Hands on Arrangement balance and heat balance on polluted air condition	6

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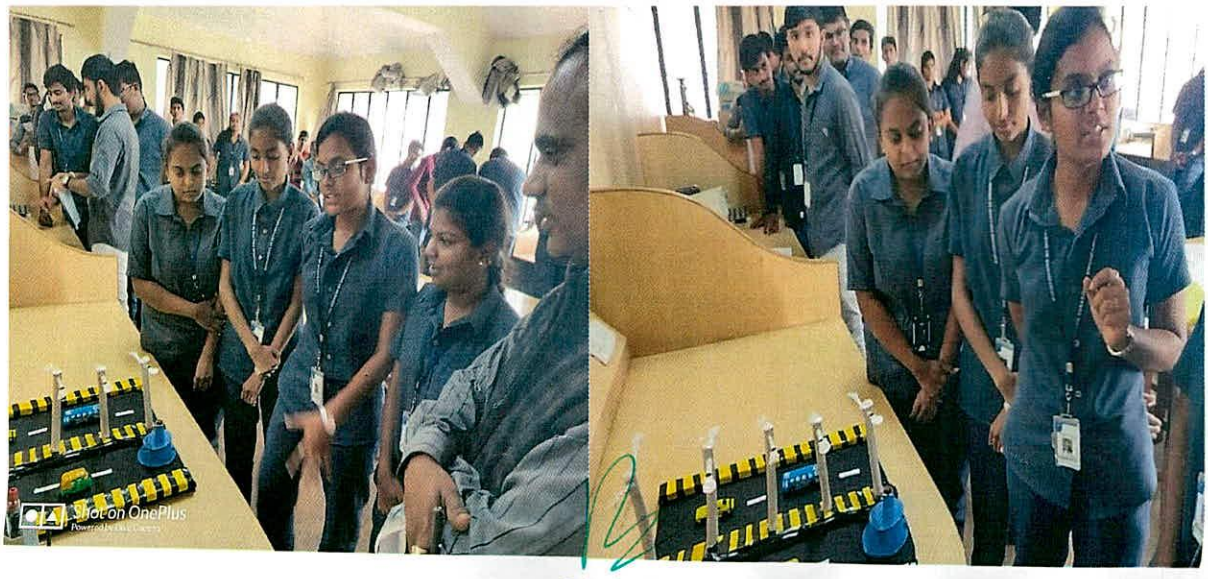
30-01-2015 Friday	• As regards the dynamic characteristics of the pollution layer during wetting	• Dry band formation, up to the ignition of • the first arc • define, respectively, the conditions of water mass •	• Hands on Design of Insulation	6
31-01-2015 Saturday	• it is Necessary to have a knowledge of the relation between the concentration of surface wetness	• electrical conductivity as well as the boundary conditions • Wet band formation	• Hands on Design of External Insulation and Test	6
			Total	30

Conclusion: Certificate course made them comfortable with practical knowledge. Learning style adopted by students, which eventually is developed into a skill of their forte. Through this course, an 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 duties and responsibilities to carry out the Certificate course.



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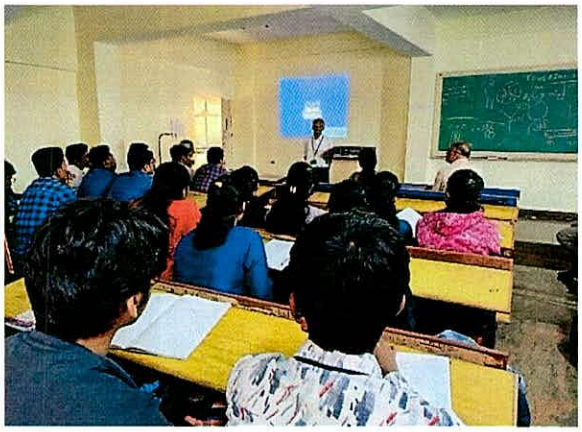
Department of Electrical&Electronics Engineering



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