

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	2015-16
Branch	EEE
Name of the Student	Qanajakshi M.
USN	1SG12EE054

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 you 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	✓				
8	Suggestions (if any)					

Suggestions: More workshop has to be conducted

Signature Qanajakshi M

Principal

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

STUDENTS FEEDBACK ON CURRICULUM

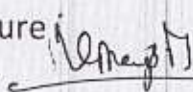
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Academic Year	2015-2016
Branch	EEE
Name of the Student	VINAY.M
USN	15G10EE027

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 you 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 (if any)	Certification Course is required regarding electrical branch.				

Suggestions:

Signature 


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

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Academic Year	15-2016
Branch	EE
Name of the Student	Chandra Prakash Kumar
USN	15G12EE014

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 you 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		✓			
8	Suggestions (if any)	Suggested university to increase the no of labs.				

Suggestions:

Signature *Chandra Prakash Kumar*

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

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Academic Year	2015 - 16
Branch	EEE
Name of the Student:	Ashutosh Kumar
USN	15G12EE009

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 you 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		✓			
8	Suggestions (if any)	Some subjects are difficult to understand eg. field theory				

Suggestions:

Signature Ashutosh Kumar

Principal

Sapthagiri College of Engineering
Chikkasandra, Hesarghatta Road,
Bangalore- 560 057



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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	2015-16.
Branch	EEE
Name	Sumith
Status : Work/Study	(Touring Hawaii)
Phone no	8128966503

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 hands on training and guidance work.

Signature Sumith

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



ALUMNI FEEDBACK ON CURRICULUM

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Year of Passing	2015-16
Branch	EEE
Name	Harikeshore Mg
Status : Work/Study	Work
Phone no	814 74 02974

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: Placement training should be syllabus oriented

Signature Harikeshore

Principal

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

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	2016
Branch	EEE
Name	Rajal Varadanan Rao.
Status : Work/Study	Work (Tenny Harris)
Phone no	9035872165

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 certificate course

Signature Rajal Varadanan Rao.

Principal

Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
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ALUMNI FEEDBACK ON CURRICULUM

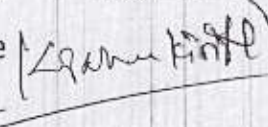
We are glad that you have spent valuable years pursuing courses of your choice at SCE. We shall be thankful if you can spare some of your valuable time to fill up this feedback form and give us valuable suggestions for further improvement of the College. Your valuable inputs will be of great use to improve 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	2016
Branch	EEE
Name	Dr. Krishna Kiriti
Status : Work/Study	Wipro Technology
Phone no	9449214531

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: Advise university to implement curriculum in industry form in each year.

Signature 

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

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	2016-15
Branch	EEE
Name of the Faculty	Jhansi K
Designation	Assistant Professor
Subject/Sub. code	15EE42, Power Generation & Economics

Rate the curriculum/syllabus on the following Points

SL NO	Statements	Excellent	Very good	Good	Average	Below Average
		5	4	3	2	1
1	Do you feel that the curriculum is defined in a way to clarify your teaching goals and what you expect your students to learn?	✓				
2	Is the curriculum sufficient to bridge the gap between industry standards /current global scenarios and academics?		✓			
3	Is the timely coverage of curriculum possible in the mentioned number of hours?	✓				
4	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 suitable to the course	✓				
7	The curriculum/course of this subject increased my knowledge and perspective in the subject area	✓				

Suggestions: Industrial Visit is required to bridge gap between industry standards & academics.

Signature

Jhansi K

Principal

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

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	2016
Branch	EEE
Name of the Faculty	Ashwini C
Designation	Asst Prof
Subject/Sub. code	10EES3 Transmission & Distribution

Rate the curriculum/syllabus on the following Points

SL NO	Statements	Excellent	Very good	Good	Average	Below Average
		5	4	3	2	1
1	Do you feel that the curriculum is defined in a way to clarify your teaching goals and what you expect your students to learn?	✓				
2	Is the curriculum sufficient to bridge the gap between industry standards /current global scenarios and academics?		✓			
3	Is the timely coverage of curriculum possible in the mentioned number of hours?	✓				
4	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 suitable to the course	✓				
7	The curriculum/course of this subject increased my knowledge and perspective in the subject area	✓				

Suggestions: Industrial Visit is required for the students to know the knowledge of transmission & Distribution.

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	2015-16
Branch	EEE
Name of the Faculty	Gum Prasanna
Designation	Sr. Lecturer
Subject/Sub. code	Electrical Measurements / 10EE36

Rate the curriculum/syllabus on the following Points

SL NO	Statements	Excellent	Very good	Good	Average	Below Average
		5	4	3	2	1
1	Do you feel that the curriculum is defined in a way to clarify your teaching goals and what you expect your students to learn?		✓			
2	Is the curriculum sufficient to bridge the gap between industry standards /current global scenarios and academics?		✓			
3	Is the timely coverage of curriculum possible in the mentioned number of hours?			✓		
4	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 suitable to the course			✓		
7	The curriculum/course of this subject increased my knowledge and perspective in the subject area	✓				

Suggestions:

Apart from syllabus, additional experiments are to be conducted in lab to give better better understanding.

Gum Prasanna
Signature

Principal

Sapthagiri College of Engineering
Chikkasandra, Hesarghatta Road,
Bangalore- 560 057

FACULTY FEEDBACK ON CURRICULUM

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Academic Year	20 ¹⁵ 2016
Branch	EEE
Name of the Faculty	Divya N.S
Designation	Assistant professor
Subject/Sub. code	15EE44, Electric Motors

Rate the curriculum/syllabus on the following Points

SL NO	Statements	Excellent	Very good	Good	Average	Below Average
		5	4	3	2	1
1	Do you feel that the curriculum is defined in a way to clarify your teaching goals and what you expect your students to learn?	✓				
2	Is the curriculum sufficient to bridge the gap between industry standards /current global scenarios and academics?	✓				
3	Is the timely coverage of curriculum possible in the mentioned number of hours?		✓			
4	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 suitable to the course	✓				
7	The curriculum/course of this subject increased my knowledge and perspective in the subject area	✓				

Suggestions: Number of teaching hours has to be increased.

Signature

Divya N.S

Principal

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

Sapthagiri College of Engineering

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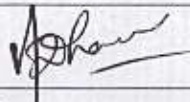
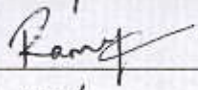
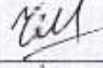
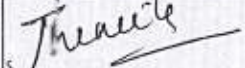
Fax: 080-28372797


Department of Electrical & Electronics Engineering


06-06-2016

CIRCULAR

This is to inform that the following Curriculum Board members are requested to attend the meeting on 07/06/2016 at 10.30AM in the HODs chamber to discuss about the analyzing of curriculum syllabus of academic year 2016-17.

Sl No.	Faculty Name	Designation	Signature
1	Dr. K N Ravi	HOD	
2	Prof. Rekha S N	Associate Professor	
3	Prof. Damodaran A	Assistant Professor	
4	Prof. Ramya M	Assistant Professor	
5	Prof. Yousuf Madar	Assistant Professor	
6	Prof. Jhansi K	Assistant Professor	


Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
Bangalore-560057


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




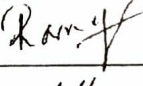

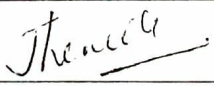
Minutes of Meeting

With reference to above circular dated 06.06.2016 the curriculum board members assembled in HODs chamber for the following agenda.

AGENDA:

- Reviewing the department curriculum syllabus of academic year 2016-17.
- Reviewing the feedback analysis of various stakeholders for the academic year 2015-16.
- Identifying the gaps.
- Action to be taken for identifying the gaps.

- 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. Ashwini C	Assistant Professor	
4	Prof. Ramya M	Assistant Professor	
5	Prof. Yousuf Madar	Assistant Professor	
6	Prof. Jhansi K	Assistant Professor	



Principal
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Department of Electrical & Electronics Engineering


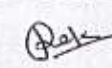
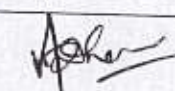
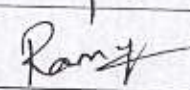
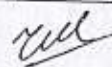
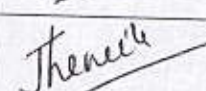
Sl No.	SEM	Course Title	Identified Gap
1	VII	"Power system operation and control"	Lack of knowledge about Power Quality
2	VI	"Electric power utilization"	Lack of knowledge about locomotives

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, alumni and analysis of syllabus by academic committee members it was decided to conduct certification course on "Power Quality" and "Hybrid Electric Vehicle" to overcome the gaps identified in the curriculum/syllabus.

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. Ramya M	Assistant Professor	
5	Prof. Yousuf Madar	Assistant Professor	
6	Prof. Jhansi K	Assistant Professor	

Principal

Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
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HOD, EEE

PROF & HOD

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

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Phone: 080-28372800/1/2

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Fax: 080-28372797

Department of Electrical & Electronics Engineering

To

Date: 10.06.2016

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 2016-17. 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 2016-17. So I request you to forward and get the approval from governing council for the same.

Thanking you,

Enclosure: Budget Proposal.

*Forwarded to the GC
approval & satisfaction
Jain*



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

To,

IQAC Coordinator
Sapthagiri College of Engineering
Bangalore - 560057.

Respected Sir,

Subject: "Budget proposal for conduction of certification program Power Quality"

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 "Power Quality" from 25-Jul-2016 to 29-Jul-2016.

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.5800 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	160	30	4800
2	Course Material and others			1000
Grand Total				5800

Thanking You,

*Forwarded to the BSC
approval & certification
[Signature]*

[Signature]

HOD
PROF & HOD

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

[Signature]
Principal

Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
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

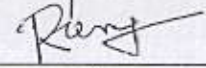
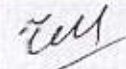
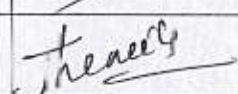
Fax: 080-28372797

Department of Electrical & Electronics Engineering

07-07-2016

CIRCULAR

This is to inform that the following Curriculum Board members are requested to attend the meeting on 08/07/2016 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. Ramya M	Assistant Professor	
5	Prof. Yousuf Madar	Assistant Professor	
6	Prof. Jhansi K	Assistant Professor	

Principal

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

HOD, EEE
PROF & HOD

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

Date: 07-07-2016

To,

Dr Dinesh
Associate Professor,
Department of EEE
R V College Of Engineering,
Bangalore-560059.

Respected Sir,

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


Department of Electrical and Electronics Engineering have planned to conduct a certification program titled "Power Quality" for EEE students from 25-07-2016 to 29-07-2016. 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 08/07/2016 10.30AM. We look forward to welcome you at SCE.

Thanking you



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Bangalore-560057



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

Minutes of Meeting

A meeting was conducted on 08-Jul-2016 in EEE HOD's Chamber to discuss and approve the following about the 5 days Certification Course for EEE Students.



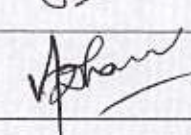
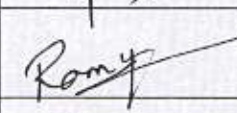
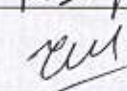
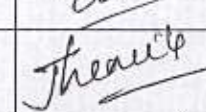

- **Course Title :** "Power Quality"
- **Resource Personnel:** Dr Dinesh, Associate Professor, Dept. of EEE, R V College Of Engineering, Bangalore-560059.
- **Course Duration & Date:** 5 Days from 25-Jul-2016 to 29-Jul-2016
- **Course Content :**

Dates	SESSION 1 (9.00am-10.30am)	SESSION 2 (11.00am-12.30pm)	SESSION 3 (1.30pm-4.30pm)
25-07-2016 Monday	<ul style="list-style-type: none"> • Power quality - definition • Common types of power quality 	<ul style="list-style-type: none"> • Reliability indicators (SAIDI, SAIFI, and etc.) used by utilities, • Measures to improve reliability. 	<ul style="list-style-type: none"> • Hands on Voltage sag and examples- problems • some reasons for these Voltage
26-07-2016 Tuesday	<ul style="list-style-type: none"> • Unbalance in power systems • Symmetrical components for quantifying the 	<ul style="list-style-type: none"> • Mitigation measures of harmonics • Fourier theorem for analysis 	<ul style="list-style-type: none"> • Hands on Collections Flicker and control by SVC equipment
27-07-2016 Wednesday	<ul style="list-style-type: none"> • Analysis of power quality problems • engine-based uninterrupted supplies 	<ul style="list-style-type: none"> • Power quality site studies • types of studies • Study using a power quality analyzer 	<ul style="list-style-type: none"> • Hands on measurement Recording the measurements Analysis of the
28-07-2016 Thursday	<ul style="list-style-type: none"> • Problems caused by unbalanced current/voltage 	<ul style="list-style-type: none"> • Harmonic control at source. • Use of automatic circuit reclosers. 	<ul style="list-style-type: none"> • Hands on Reason for harmonics • Problems caused by harmonics
29-07-2016 Friday	<ul style="list-style-type: none"> • Emergency power, electronic uninterrupted power supply equipment, 	<ul style="list-style-type: none"> • Over-voltage and its effect • Transient over-voltage and the role of surge protection 	<ul style="list-style-type: none"> • Hands on Active and passive filters and comparison and TEST conduction

Principal

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Bangalore- 560 057

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. Damodaran A	Assistant Professor	
4	Prof. Ramya M	Assistant Professor	
5	Prof. Yousuf Madar	Assistant Professor	
6	Prof. Jhansi K	Assistant Professor	
7	Prof. Dr Dinesh	Guest Speaker	


HOD-EEE
PROF & HOD

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


Principal
Sapthagiri College of Engineering
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Bangalore- 560 057

Sapthagiri College of Engineering

(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 "POWER QUALITY" from 25-July-2016 to 29-July-2016

All the EEE students must attend the course compulsorily.



Signature of HOD
PROF & HOD

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



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Bangalore - 560057

Department of Electrical & Electronics Engineering

Certification Program: "Power Quality"

Lesson Planner

Dates	SESSION 1 (9.00am-10.30am)	SESSION 2 (11.00am-12.30pm)	SESSION 3 (1.30pm-4.30pm)	No. of Hours
25-07-2016 Monday	<ul style="list-style-type: none"> Power quality - definition Common types of power quality 	<ul style="list-style-type: none"> Reliability indicators (SAIDI, SAIFI, and etc.) used by utilities, Measures to improve reliability. 	<ul style="list-style-type: none"> Hands on Voltage sag and examples- problems some reasons for these Voltage 	6
26-07-2016 Tuesday	<ul style="list-style-type: none"> Unbalance in power systems Symmetrical components for quantifying the 	<ul style="list-style-type: none"> Mitigation measures Definition of harmonics Fourier theorem for analysis 	<ul style="list-style-type: none"> Hands on Collections Flicker and control by SVC equipment 	6
27-07-2016 Wednesday	<ul style="list-style-type: none"> Analysis of power quality problems engine-based uninterrupted supplies 	<ul style="list-style-type: none"> Power quality site studies types of studies Study using a power quality analyzer 	<ul style="list-style-type: none"> Hands on measurement Recording the measurements Analysis of the 	6
28-07-2016 Thursday	<ul style="list-style-type: none"> Problems caused by unbalanced current/voltage 	<ul style="list-style-type: none"> Harmonic control at source. Use of automatic circuit reclosers. 	<ul style="list-style-type: none"> Hands on Reason for harmonics Problems caused by harmonics 	6
29-07-2016 Friday	<ul style="list-style-type: none"> Emergency power, electronic uninterrupted power supply equipment, 	<ul style="list-style-type: none"> Over-voltage and its effect Transient over-voltage and the role of surge protection 	<ul style="list-style-type: none"> Hands on Active and passive filters and comparison and TEST conduction 	6
TOTAL				30

HOD

PROF & HOD

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

GUEST SPEAKER

Principal

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

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

5 days Certification Program on "Power Quality"

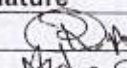
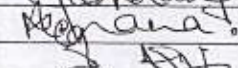
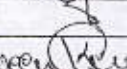
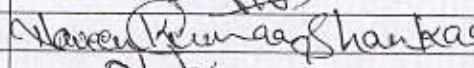
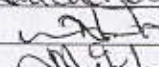
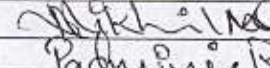
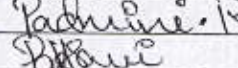

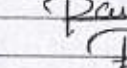
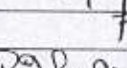
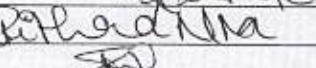


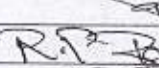

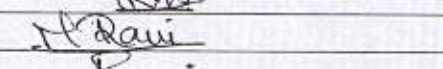



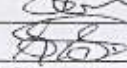
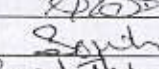

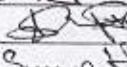
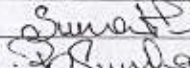
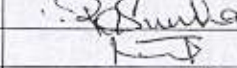

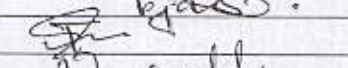
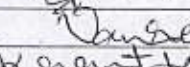
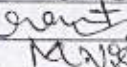
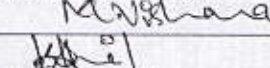
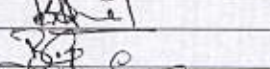

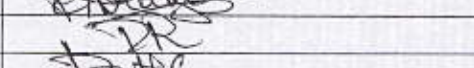
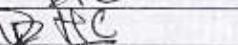





Students Enrolment


Academic Year -2016-17(ODD)

SL.No	USN	Student Name	Signature
1	1SG13EE010	ASHWINI KUMAR	Ashwini Kumar
2	1SG13EE015	CHANDAN KUMAR	Chandan Kumar
3	1SG13EE048	SANDHYA C	Sandhya C
4	1SG13EE051	SATYA SUNDAR	Satya Sundar
5	1SG13EE053	SHALINI MISHRA	Shalini Mishra
6	1SG14EE002	ABHISHEK B REVANKAR	Abhishek B Revankar
7	1SG14EE004	AKASH PANDEY	Akash Pandey
8	1SG14EE005	AMAN KUMAR	Aman Kumar
9	1SG14EE006	AMIT KUMAR SAH	Amit Sah
10	1SG14EE007	AMRIT RAJ	Amrit Raj
11	1SG14EE008	ANITHA B	Anitha B
12	1SG14EE009	ANJALI SHARMA	Anjali Sharma
13	1SG14EE010	ANKIT JHA	Ankit Jha
14	1SG14EE011	ANKIT PRAKASH	Ankit Prakash
15	1SG14EE012	ANKUR JAYARAJ	Ankur Jayaraj
16	1SG14EE013	ANSHUMAN PANDEY	Anshuman Pandey
17	1SG14EE014	ANUSHA T S	Anusha T S
18	1SG14EE015	ARCHANA S	Archana S
19	1SG14EE017	AREPITHA M J	Arepitha M J
20	1SG14EE018	ARVIND B R	Arvind B R
21	1SG14EE020	BLITH K B	Blith K B
22	1SG14EE021	BISHAL KUMAR GUPTA	Bishal Kumar Gupta
23	1SG14EE022	BLESSY PHILIP M	Blessy Philip M
24	1SG14EE023	CHANDAN KUMAR JAISWAL	Chandan Kumar Jaiswal
25	1SG14EE024	DAVAYYA CHANNAYYA	Davayya Channayya
26	1SG14EE025	DILIP M	Dilip M
27	1SG14EE026	DIVYA M	Divya M
28	1SG14EE027	DIVYANSHU MISHRA	Divyanshu Mishra
29	1SG14EE028	GANESH KUMAR T C	Ganesh Kumar T C
30	1SG14EE030	HEMALATHA H G	Hemalatha H G
31	1SG14EE031	ISHANI SHARMA	Ishani Sharma
32	1SG14EE032	JYOTHI M	Jyothi M
33	1SG14EE034	KAVYA J R	Kavya J R
34	1SG14EE035	KIRAN D	Kiran D
35	1SG14EE037	KRITHIKA K	Krithika K
36	1SG14EE038	KUSHAL N	Kushal N
37	1SG14EE039	MADHUSHREE S	Madhushree S
38	1SG14EE040	MAHESH KUMAR M	Mahesh Kumar M
39	1SG14EE041	MANJUNATH	Manjunath
40	1SG14EE042	MANJUNATH T	Manjunath T
41	1SG14EE043	MANOJ M G	Manoj M G

Principal

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

SL.No	USN	Student Name	Signature
42	1SG14FE044	MANOJ R	
43	1SG14FE045	MEGHANA G V	
44	1SG14FE047	MITHUN H V	
45	1SG14FE043	NAVEEN KUMAR SHANKAR	
46	1SG14FE050	NETHRAVATHI K	
47	1SG14FE051	NIKHIL M G	
48	1SG14FE052	PADMINI R	
49	1SG14FE053	PALLAVI S	
50	1SG14FE054	PAVAN KUMAR D V	
51	1SG14FE055	PAVAN KUMAR H D	
52	1SG14FE056	PAVITHRA C	
53	1SG14FE057	PAVITHRA N M	
54	1SG14FE05F	POORVA H	
55	1SG14FE05E	PRAGATHI S	
56	1SG14FE061	RAKSHITH S	
57	1SG14FE062	RAMKUMAR R P	
58	1SG14FE064	RANJITHA K	
59	1SG14FE065	RAVIKIRAN H	
60	1SG14FE066	RITU KUMARI	
61	1SG14FE067	SADAM HUSSAIN K A	
62	1SG14FE068	SANIYA ANJUM P	
63	1SG14FE070	SHILPA H S	
64	1SG14FE072	SNEHA S	
65	1SG14FE073	SOWBHAGYA S	
66	1SG14FE074	SRINIVAS J	
67	1SG14FE075	SUMANRAJ	
68	1SG14FE073	SUMATHI G	
69	1SG14FE077	SUSHMA R	
70	1SG14FE073	SUSHMITHA I	
71	1SG14FE081	TEJAS S	
72	1SG14FE081	LENDRA R	
73	1SG14FE083	VADDIREDDY	
74	1SG14FE084	VIKRANT KUMAR PANDEY	
75	1SG14FE086	VISHWANATH M	
76	1SG15FE400	AKHILESH B R	
77	1SG15FE401	ARPITHA B G	
78	1SG15FE402	ARUN S RAJ	
79	1SG15FE407	DARSHAN R	
80	1SG15FE408	DEEPIKA H C	


(Program coordinator)


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


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

5 days Certification Program on "Power Quality"

Students Enrollment

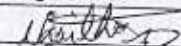
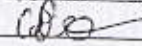

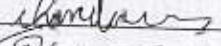

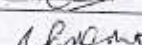

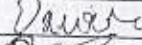

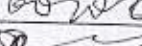

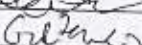

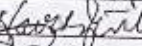
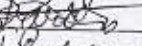
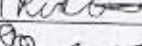

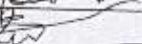


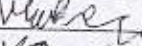


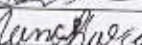
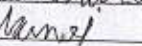
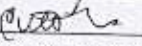
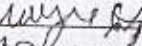
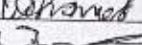



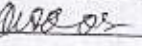

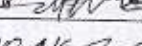


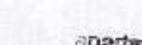



Academic Year-2016-17(ODD)


SLNo	USN	Student Name	Signature
1	1SG15EE409	DEVARAJA K	Devaraja
2	1SG15EE412	H.P THRISHUL	H.P Thrishul
3	1SG15EE415	KEERTHANA A BAVASAR	Kuma
4	1SG15EE416	KIRAN KUMAR H	Kiran
5	1SG15EE417	KRISHNA REDDY	Krishna
6	1SG15EE418	MANJUNATH S	Manjunath S
7	1SG15EE419	MANJUNATH R	Manjunath R
8	1SG15EE420	MANJUNATH S	Manjunath S
9	1SG15EE421	MANOHAR K	Manohar K
10	1SG15EE423	MOUNESH A KAMBAR	Mounesh Kambar
11	1SG15EE424	NAGARA JILH	Nagaraj J
12	1SG15EE425	NAGENDRA R GOITHAMAS	Nagendra R
13	1SG15EE427	NANDEESH C	Nandeesha C
14	1SG15EE428	NEHA	Neha
15	1SG15EE432	SANDESH R	Sandesh R
16	1SG15EE434	SANTHOSHA K N	Santhosha K N
17	1SG15EE436	SHANTHI PRIYA S J	Shanthi Priya S J
18	1SG15EE437	SHREEJA T	Shreeja T
19	1SG15EE438	SINDHU K P	Sindhu K P
20	1SG15EE439	SONU SAGAR K	Sonugit
21	1SG15EE441	SILITH FREDRICK A	Silith F A
22	1SG15EE442	SUNIL R G	Sunil R G
23	1SG15EE443	SUSHMA K P	Sushma K P
24	1SG15EE444	TEJASH R N	Tejash R N
25	1SG15EE445	TEJASWINI K C	Tejash B N
26	1SG15EE448	TIMESHA K S	Timesha K S
27	1SG15EE450	VARUN KUMAR G	Varun
28	1SG15EE451	VARUN G	Varun
29	1SG15EE005	ANNAPURNA SINGH	Annapurna
30	1SG15EE006	ANTONY ROSHAN JOY D'SOUZA	Antony Roshan
31	1SG15EE007	ANUP H V	Anup H V
32	1SG15EE008	ANUSHA B	Anusha B
33	1SG15EE009	ANUSHA K	Anusha
34	1SG15EE010	APOORVA K G	Apoorva K G
35	1SG15EE011	AEPITA SHARMA	Aepitha Sharma
36	1SG15EE012	AEPITHA SRINIVASA MURTHY	Aepitha Srinivasa
37	1SG15EE013	ARUNA R P	Aruna
38	1SG15EE014	ATHIYA MOHAMMADI	Athiya Mohammadi
39	1SG15EE015	BAJAJ VENKATESH KAI KONDA	Bajaj Venkatesh
40	1SG15EE017	C.S MOHANA	Mohana

Sapthagiri College of Engineering

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

Department of Electrical and Electronics Engineering

SL.No	USN	Student Name	Signature
41	1SG15EE019	CHAITHRA S	
42	1SG15EE020	CHANDAN G	
43	1SG15EE021	CHANDAN GOWDA P	
44	1SG15EE022	CHANDAN KUMAR	
45	1SG15EE023	CHANDANA B	
46	1SG15EE024	CHARITHA M C	
47	1SG15EE025	CHAYA K	
48	1SG15EE026	D MANISH NAICKER	
49	1SG15EE027	DARSHAN N	
50	1SG15EE028	DHANUSH P	
51	1SG15EE029	G TEJASHREE	
52	1SG15EE030	GAJENDRA N	
53	1SG15EE031	GANESH RAO S	
54	1SG15EE033	GIRISH V	
55	1SG15EE034	GURURAJA D	
56	1SG15EE035	HARSHITH GOWDA S	
57	1SG15EE036	HARSHITHA V	
58	1SG15EE037	IRENE JACOB	
59	1SG15EE038	JEEVITHA A	
60	1SG15EE039	K LAVENYA	
61	1SG15EE040	KARTHIK B	
62	1SG15EE041	KEERTHANA R	
63	1SG15EE042	LOHITH S	
64	1SG15EE045	MAHENDHAR K	
65	1SG15EE046	MANASA H	
66	1SG15EE047	MANISH MANJUNATH NARAYANA	
67	1SG15EE048	MANJULA S	
68	1SG15EE049	MANOHARA S	
69	1SG15EE050	MANOJ B N	
70	1SG15EE051	MANOJ N	
71	1SG15EE052	MEGHANA N	
72	1SG15EE053	MEGHANA S HULIKAI	
73	1SG15EE054	MOHAMED JAFFER SADDIQ	
74	1SG15EE055	MONISH N G	
75	1SG15EE056	MOUNIKA G B	
76	1SG15EE057	NAGARAJ	
77	1SG15EE058	NAVYA S R	
78	1SG15EE059	NETHRA R	
79	1SG15EE060	NITHYA J	
80	1SG15EE061	PAWAN KUMAR D	


(Program Coordinator)

Principal

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

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

5 days Certification Program on "Power Quality" Attendance

Sl. No	USN	Student Name	25-07-2016		26-07-2016		27-07-2016		28-07-2016		29-07-2016		
			MS	AS	MS	AS	MS	AS	MS	AS	MS	AS	Test
1	1SG15EE409	DEVARAJA K	1	2	3	4	5	6	7	8	9	9	10
2	1SG15EE412	H P THIRISHUL	1	2	3	4	5	6	7	8	9	10	11
3	1SG15EE415	KEERTHANA A BAVASAR	1	2	3	4	4	5	6	7	8	9	10
4	1SG15EE416	KIRAN KUMAR H	1	2	3	4	5	5	6	7	8	9	10
5	1SG15EE417	KRISHNA REDDY	1	2	3	4	5	6	7	8	9	10	11
6	1SG15EE418	MANJUNATH S	1	2	3	4	5	6	7	7	8	9	10
7	1SG15EE419	MANJUNATH R	1	2	3	4	5	6	7	8	9	10	11
8	1SG15EE420	MANJUNATH S	1	2	3	4	5	6	7	8	9	10	11
9	1SG15EE421	MANOHAR K	1	2	3	4	5	6	7	8	9	10	11
10	1SG15EE423	MOHESH A KAMBAR	1	2	3	3	4	5	6	7	8	9	10
11	1SG15EE424	NAGARAJU H	1	2	3	4	5	6	6	7	8	9	10
12	1SG15EE425	NAGENDRA R GOUTHAMAS	1	2	3	4	5	5	6	7	8	9	10
13	1SG15EE427	NANDEESH C	1	2	3	4	5	6	7	8	9	10	11
14	1SG15EE428	NEHA	1	2	3	4	5	6	7	8	9	10	11
15	1SG15EE432	SANDESH R	1	2	3	3	4	5	6	7	8	9	16
16	1SG15EE434	SANTHOSHA K N	1	2	2	3	4	5	6	7	8	9	10
17	1SG15EE436	SHANTHI PRIYA S J	1	2	3	4	5	6	7	7	8	9	10
18	1SG15EE437	SHREEJA T	1	2	3	4	5	6	7	8	8	9	10
19	1SG15EE438	SINDHU K P	1	2	3	4	4	5	6	7	8	9	10
20	1SG15EE439	SONU SAGAR K	1	2	3	4	5	6	7	8	9	10	11
21	1SG15EE441	SUJITH FREDRICK A	1	2	3	4	5	6	7	8	9	10	11
22	1SG15EE442	SUNIL B G	1	2	3	4	5	5	6	7	8	9	10
23	1SG15EE443	SUSHMA K F	1	2	3	4	4	5	6	7	8	9	10
24	1SG15EE444	TEJASH B N	1	2	3	4	5	6	7	8	9	10	11
25	1SG15EE445	TEJASWINI K C	1	2	3	4	5	6	7	8	9	10	11
26	1SG15EE448	UMESHA K S	1	2	3	4	5	6	7	8	9	10	11
27	1SG15EE450	VARUN KUMAR G	1	2	3	4	5	6	7	7	8	9	10
28	1SG15EE451	VARUN G	1	2	3	4	5	6	7	8	9	10	11
29	1SG15EE005	ANNAPURNA SINGH	1	2	3	4	5	6	7	8	9	10	11
30	1SG15EE006	ANTONY ROSHAN JOY D'SOUZA	1	2	3	4	5	6	7	8	9	10	11

Principal


Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
Bengaluru-560057

Sl. No	USN	Student Name	25-07-2016		26-07-2016		27-07-2016		28-07-2016		29-07-2016		
			MS	AS	MS	AS	MS	AS	MS	AS	MS	AS	Test
31	1SG15EE007	ANJ P H V	1	2	3	4	5	6	7	8	9	10	11
32	1SG15EE008	ANJUSHA B	1	2	3	4	5	6	7	8	9	10	11
33	1SG15EE009	ANJUSHA K	1	2	3	4	5	6	7	8	9	10	11
34	1SG15EE010	APOORVA K G	1	2	3	3	4	5	6	7	8	9	10
35	1SG15EE011	ARFITA SHARMA	1	2	3	4	5	6	7	8	9	10	11
36	1SG15EE012	ARFITHA SRIN VASA MURTHY	1	2	3	4	5	6	7	8	8	9	10
37	1SG15EE013	ARUNA B P	1	2	3	4	5	6	7	8	9	10	11
38	1SG15EE014	ATHIYA MOHAMMADI	1	2	3	4	5	6	7	8	9	10	11
39	1SG15EE015	BALEJI VENKATESH KALKONDA	1	2	3	4	5	6	7	8	9	10	11
40	1SG15EE017	C S MOHANA	1	2	3	4	5	6	7	7	8	9	10
41	1SG15EE019	CHATHRA S	1	2	3	4	5	6	7	8	9	9	10
42	1SG15EE020	CHANDAN G	1	2	3	4	5	6	7	8	9	10	11
43	1SG15EE021	CHANDAN GOWDA P	1	2	3	4	5	6	7	8	9	10	11
44	1SG15EE022	CHANDAN KUMAR	1	2	3	4	5	6	7	8	8	9	10
45	1SG15EE023	CHANDANA B	1	2	3	4	5	6	7	8	9	10	10
46	1SG15EE024	CHATHAM C	1	2	3	4	5	6	7	8	9	10	11
47	1SG15EE025	CHAYA K	1	2	3	4	5	6	7	8	9	10	11
48	1SG15EE026	C MAHISH NAICKER	1	2	3	4	5	6	6	7	8	9	10
49	1SG15EE027	DARSHAN N	1	2	3	4	5	5	6	7	8	9	10
50	1SG15EE028	DHANJSH P	1	2	3	4	5	6	7	8	9	10	11
51	1SG15EE029	G TEJASHREE	1	2	3	4	5	6	7	8	9	10	11
52	1SG15EE030	GAJENDRA N	1	2	3	4	5	6	7	8	9	10	11
53	1SG15EE031	GANESH RAO S	1	2	3	4	4	5	6	7	8	9	10
54	1SG15EE033	GIRISH V	1	2	3	4	5	6	7	8	9	10	11
55	1SG15EE034	GURLRAJA D	1	2	3	4	5	6	7	8	9	10	11
56	1SG15EE035	HARSHITH GOWDA S	1	2	3	4	5	6	7	8	9	10	11
57	1SG15EE036	HARSHITHA V	1	2	3	4	5	6	7	8	9	10	11
58	1SG15EE037	IRENE JACOB	1	2	3	4	5	6	7	8	9	10	11
59	1SG15EE038	JEEVITHA A	1	2	3	4	5	6	7	8	9	10	11
60	1SG15EE039	K LAVANYA	1	2	2	3	4	5	6	7	8	9	10
61	1SG15EE040	KARTHIK B	1	2	3	4	5	6	7	8	9	10	11

Principal

Sl. No	USN	Student Name	25-07-2016		26-07-2016		27-07-2016		28-07-2016		29-07-2016		
			MS	AS	MS	AS	MS	AS	MS	AS	MS	AS	Test
62	1SG15EE041	KEERTHANA R	1	2	3	4	5	6	7	8	9	10	11
63	1SG15EE042	LOHITH S	1	2	3	4	5	6	7	8	9	10	11
64	1SG15EE045	MAHENDHAR K	1	2	3	4	5	6	7	8	9	10	10
65	1SG15EE046	MANASA H	1	2	3	4	5	6	7	8	9	10	11
66	1SG15EE047	MANISH MANJUNATH	1	2	3	4	5	6	7	8	9	10	11
67	1SG15EE048	MANJULA S	1	2	2	3	4	5	6	7	9	10	11
68	1SG15EE049	MANOHARA S	1	2	3	4	5	6	7	8	9	10	11
69	1SG15EE050	MANOJ B N	1	2	3	4	5	6	7	8	8	9	10
70	1SG15EE051	MANOJ N	1	2	3	4	5	6	7	8	9	10	11
71	1SG15EE052	MEGHANA N	1	2	3	4	5	6	7	8	9	10	11
72	1SG15EE053	MEGHANA S HULIKAL	1	2	3	4	5	6	7	8	9	10	11
73	1SG15EE054	MOHAMED JAFFER SADDIQ	1	2	3	4	5	6	7	8	9	10	11
74	1SG15EE055	MONISH N G	1	2	3	3	4	5	6	7	8	9	10
75	1SG15EE056	MOUNIKA G B	1	2	3	4	5	6	7	8	9	10	11
76	1SG15EE057	NAGARAJ	1	2	3	4	5	6	7	8	9	10	11
77	1SG15EE058	NAVYA S R	1	2	3	4	5	6	7	8	9	10	11
78	1SG15EE059	NETHRA R	1	2	3	4	5	6	7	8	9	10	11
79	1SG15EE060	NITHYA J	1	2	3	4	4	5	5	7	8	9	10
80	1SG15EE061	PAWAN KUMAR D	1	2	3	4	5	6	7	8	9	10	11
Signature			1	2	3	4	5	6	7	8	9	10	11


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


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

5 days Certification Program on "Power Quality"

Attendance

Sl. No	USN	Student Name	25-07-2016		26-07-2016		27-07-2016		28-07-2016		29-07-2016		
			MS	AS	MS	AS	MS	AS	MS	AS	MS	AS	Test
1	1SG13EE010	ASHWINI KUMAR	1	2	3	4	5	6	7	8	9	10	11
2	1SG13EE015	CHANDAN KUMAR	1	2	3	4	5	5	6	7	8	9	10
3	1SG13EE048	SANDHYA C	1	2	3	4	4	5	6	7	8	9	10
4	1SG13EE051	SATYA SUNDAR BASUMATARY	1	2	3	4	5	6	7	8	9	10	11
5	1SG13EE053	SHALINI M. SHRA	1	2	3	4	5	6	7	8	9	10	11
6	1SG14EE002	ABHISHEK B REVANKAR	1	2	3	4	5	6	7	8	9	10	11
7	1SG14EE004	AKASH PANDEY	1	2	3	4	5	6	7	8	9	9	10
8	1SG14EE005	AMAN KUMAR	1	2	3	4	5	6	7	7	8	9	10
9	1SG14EE006	AMIT KUMAR SAH	1	2	3	4	5	6	7	8	9	10	11
10	1SG14EE007	AMRIT RAJ	1	2	3	4	5	6	7	8	9	10	11
11	1SG14EE008	ANITHA B	1	2	3	4	5	6	7	8	9	10	11
12	1SG14EE009	ANJAL SHARMA	1	2	2	3	4	5	6	7	8	9	10
13	1SG14EE010	ANKIT JHA	1	2	3	4	5	6	7	8	9	10	11
14	1SG14EE011	ANKIT PRAKASH	1	2	3	4	5	6	6	7	8	9	10
15	1SG14EE012	ANKUR JAYARAJ	1	2	3	3	4	5	6	7	8	9	10
16	1SG14EE013	ANSHUMAN PANDEY	1	2	3	4	5	6	6	7	8	9	10
17	1SG14EE014	ANUSHA T S	1	2	3	4	5	5	6	7	8	9	10
18	1SG14EE015	ARCHANA S	1	2	3	4	5	6	7	7	8	9	10
19	1SG14EE017	ARPITHA M.	1	2	3	4	5	6	7	8	9	10	11
20	1SG14EE018	ARVIND B R	1	2	3	4	5	6	7	8	9	10	11
21	1SG14EE020	BIJITH K B	1	2	3	4	5	6	7	8	9	10	11
22	1SG14EE021	BISHAL KUMAR GUPTHA	1	2	3	4	5	6	7	8	9	10	11
23	1SG14EE022	BLESSY PHILIP M	1	2	3	4	5	6	7	8	9	10	11
24	1SG14EE023	CHANDAN KUMAR JAISWAL	1	2	3	4	5	6	7	8	9	10	11
25	1SG14EE024	DANAYYA CHANNAYYA HIREMAT	1	2	3	4	5	6	7	8	9	10	11
26	1SG14EE025	DILIP M	1	2	3	4	5	6	7	8	9	9	10
27	1SG14EE026	DIVYA M	1	2	3	4	5	6	7	8	9	10	11
28	1SG14EE027	DIVYANSHU MISHRA	1	2	3	4	5	6	6	7	8	9	10
29	1SG14EE028	GANESH KUMAR T C	1	2	3	4	5	6	7	8	9	10	11
30	1SG14EE030	HEMALATHA H G	1	2	3	4	5	6	7	8	9	10	11
31	1SG14EE031	ISHANI SHARMA	1	2	3	4	5	6	7	8	9	10	11
32	1SG14EE032	JYOTHI M	1	2	3	4	5	6	7	8	9	10	11
33	1SG14EE034	KAVYA J R	1	2	3	4	5	6	7	8	9	10	11
34	1SG14EE035	KIRAN D	1	2	3	4	5	6	6	7	8	9	10
35	1SG14EE037	KRUTHIKA K	1	2	3	4	5	6	7	8	9	10	11
36	1SG14EE038	KUSHAL N	1	2	3	4	5	6	7	8	9	10	11
37	1SG14EE039	MADHUSHREE S	1	2	3	4	5	6	7	8	9	10	11
38	1SG14EE040	MAHESH KUMAR M	1	2	3	4	5	5	7	8	8	9	10
39	1SG14EE041	MANJUNATH	1	2	3	4	5	6	7	8	9	10	11
40	1SG14EE042	MANJUNATH T	1	2	3	4	5	6	7	8	9	10	11
41	1SG14EE043	MANOJ M G	1	2	3	4	5	6	7	8	9	10	11
42	1SG14EE044	MANOJ R	1	2	3	4	5	6	7	8	9	10	11
43	1SG14EE045	MEGHANA G V	1	2	3	4	5	6	7	8	9	10	11

Principal

Sl. No	USN	Student Name	25-07-2016		26-07-2016		27-07-2016		28-07-2016		29-07-2016		
			MS	AS	MS	AS	MS	AS	MS	AS	MS	AS	Test
44	1SG14EE047	MITHUN H V	1	2	3	4	5	6	7	8	9	10	11
45	1SG14EE048	NAVEEN KUMAR SHANKAR NAIK	1	2	3	3	4	5	6	7	8	9	10
46	1SG14EE050	NETHRAVATHI K	1	2	3	4	5	6	7	8	9	10	11
47	1SG14EE051	NIKHIL M G	1	2	2	3	4	5	6	7	8	9	10
48	1SG14EE052	PADMINI R	4	2	3	4	5	6	7	8	9	10	11
49	1SG14EE053	PALLAVI S	1	2	3	4	5	6	7	8	9	10	11
50	1SG14EE054	PAVAN KUMAR D V	1	2	3	4	5	6	7	7	8	9	10
51	1SG14EE055	PAVAN KUMAR H D	1	2	3	4	5	6	7	7	8	9	10
52	1SG14EE056	PAVITHRA C	1	2	3	4	5	6	7	8	9	10	11
53	1SG14EE057	PAVITHRA N M	1	2	3	4	5	6	7	8	9	10	11
54	1SG14EE058	POORVA H	1	2	3	4	5	6	7	8	9	10	11
55	1SG14EE059	PRAGATHI S	1	2	3	4	5	6	7	8	9	10	11
56	1SG14EE061	RAKSHITH S	1	2	3	4	5	6	7	8	9	10	11
57	1SG14EE062	RAMKUMAR R P	1	2	3	4	5	6	7	7	8	9	10
58	1SG14EE064	RANJITHA K	1	2	3	3	4	5	5	7	8	9	10
59	1SG14EE065	RAVIKIRAN H	1	2	2	3	3	4	5	6	7	8	9
60	1SG14EE066	RITU KUMARI	1	2	3	4	5	6	7	8	9	10	11
61	1SG14EE067	SADAM HUSSAIN K A	1	2	3	4	5	6	7	8	9	10	11
62	1SG14EE068	SANIYA ANJUM P	1	2	3	4	5	5	5	7	8	9	10
63	1SG14EE070	SHILPA H S	1	2	3	3	4	5	6	7	8	9	10
64	1SG14EE072	SNEHA S	1	2	3	4	5	6	7	8	9	10	11
65	1SG14EE073	SOWBHAGYA S	1	2	3	4	5	6	7	8	9	10	11
66	1SG14EE074	SRINIVAS J	1	2	3	3	4	5	6	7	8	9	10
67	1SG14EE075	SUMANRAJ	1	2	3	4	5	6	7	8	9	10	11
68	1SG14EE076	SUMATHI G	1	2	3	4	5	6	7	8	9	10	11
69	1SG14EE077	SUSHMA R	1	2	3	4	5	6	7	8	9	10	11
70	1SG14EE078	SUSHMITHA I	1	2	3	4	5	6	7	8	9	10	11
71	1SG14EE080	TEJAS S	1	2	3	4	5	6	6	7	8	9	10
72	1SG14EE081	UPENDRA R	1	2	3	4	5	6	7	8	9	10	11
73	1SG14EE083	VADDIREDDY	1	2	3	4	5	6	7	8	9	10	11
74	1SG14EE084	VIKRANT KUMAR PANDEY	1	2	3	3	5	6	7	8	9	10	11
75	1SG14EE086	VISHWANATH M	1	1	3	4	5	6	7	8	9	10	11
76	1SG15EE400	AKHILESH B R	1	2	3	4	5	6	7	8	9	10	11
77	1SG15EE401	ARPITHA B G	1	2	3	3	5	6	7	8	9	10	11
78	1SG15EE402	ARUN S RAJ	1	2	3	4	5	6	7	8	9	10	11
79	1SG15EE407	DARSHAN R	1	2	3	4	5	6	7	7	8	9	11
80	1SG15EE403	DEEPIKA H C	1	2	3	4	5	6	7	8	9	10	11
Signature			(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)

(Signature)
(PROGRAM COORDINATOR)

HOD
PROF & HOD

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

Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
Bangalore-560057


5 days Certification Course on "POWER QUALITY"

Test Time Table

Sl. No.	DATE	DAY	TIMINGS
1	29-07-2016	FRIDAY	4.30PM-5.30PM


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Bangalore- 560 057


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

5 days Certification Course on "POWER QUALITY"

Question Paper

Duration : 1hr

Maximum marks : 40

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

Question number 21-24 (5M each)

Answer all the Questions:

1. The capacitance of the transmission line will be affected if the distance between conductors and earth is varied.

- a) True
- b) False

2. The inductance of the transmission line will be affected if the distance between conductors and earth is varied.

- a) True
- b) false

3. The sending end voltage of the transmission line controls the

- a) active power
- b) reactive power
- c) (a) and (b) both
- d) None of the above

4. The frequency of the power system controls the

- a) Active power
- b) Reactive power
- c) (a) and (b) both
- d) None of them



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5. Enumerate three conditions which have the transient state instability in the power system

- a) Switching operation on the transmission line
- b) Any short circuits
- c) Excitation loss in the generator

6. Which of the following equipment one will choose to study the stability of A.C. power system?

- a) Energy meter
- b) Network analyser
- c) Network synthesizer
- d) (b) or (c)

7. The breaking torque which plugging the machine at zero speed will be

- a) Zero
- b) High
- c) Small
- d) None of the above

8. The dynamic breaking of the machine offers the highest breaking torque in comparison to other breaking methods.

- a) True
- b) False

9. The drop in the terminal voltage of the shunt generator on load may be attributed to

- a) Increase in armature resistance
- b) Drop in field current due to armature reaction
- c) Drop in field current due to drop in armature resistance
- d) (b) and (c) both

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10. If the load is not connected to the d.c. series motor then
- a) It will not build up the voltage
 - b) It will build up very high voltage
 - c) It will have very low speed (d) none of the above
11. corona loss in the power lines is more in winter season than the summer season.
- a) True
 - b) False
12. The single phasing relays are used for the protection of
- a) Single phase motor only
 - b) Two-phase motors only
 - c) Two single phase motor running in parallel
 - d) Three phase motors
13. Two protection zone in the electrical transmission system is decided
- a) Location of PT
 - b) Location of CT
 - c) Relay's size
 - d) Relay's sensitivity
14. Which of the following device will receive Voltage Surge first traveling on the transmission line
- a) Step-down transformer
 - b) Relays
 - c) Switchgear
 - d) Lightning arresters
15. The fault impedance of the line is
- a) Less than the impedance of healthy line
 - b) More than the impedance of healthy line
 - c) Equal to the impedance of the healthy line
 - d) None of the above
16. Which of the following parameter can be neglected for a short line?

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a) Resistance

b) Inductance

c) Reactance

d) Capacitance

17. The stability of a salient pole alternators is better than the stability of a non-salient pole alternators.

a) True

b) False

18. Series reactors should have

a) High resistance

b) Low resistance

c) High impedance

d) Low impedance

19. Which of the following frequency variation for power frequency is as per IS?

a) 2.5%

b) 5%

c) $\pm 5\%$

d) $\pm 2.5\%$

20. Which of the following device will be preferred to control the power system voltage?

a) Transformers

b) Shunt capacitors

c) Series capacitors

d) Electronic amplifiers

21. What is Power Quality?

22. What are the commonly used terms that describe the parameters of electrical power that describe or measure Power Quality?

23. What are the types of Power Quality solutions available on the market today?

24. How can Power Quality problems be detected?

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

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

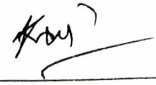

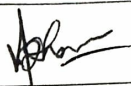
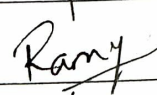


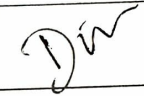
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Fax: 080-28372797

Department of Electrical & Electronics Engineering


Approved by Academic Committee Members & HOD

Sl No.	Faculty Name	Designation	Signature
1	Dr. K N Ravi	HOD	
2	Prof. Rekha S N	Associate Professor	
3	Prof. Damodaran A	Assistant Professor	
4	Prof. Ramya M	Assistant Professor	
5	Prof. Yousuf Madar	Assistant Professor	
6	Prof. Jhansi K	Assistant Professor	
7	Prof. Dr Dinesh	Guest Speaker	



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5 days Certification Course on "POWER QUALITY"

Solutions for the Questions

Duration : 1hr

Maximum marks : 40

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

Question number 21-24 (5M each)

Answer all the Questions:

1. The capacitance of the transmission line will be affected if the distance between conductors and earth is varied.

- a) True
- b) False

Ans: (a)

2. The inductance of the transmission line will be affected if the distance between conductors and earth is varied.

- a) True
- b) false

Ans: (b)

3. The sending end voltage of the transmission line controls the

- a) active power
- b) reactive power
- c) (a) and (b) both
- d) None of the above

Ans: (b)

4. The frequency of the power system control the

- a) Active power
- b) Reactive power
- c) (a) and (b) both
- d) None of them

Ans: (a)

5. Enumerate three conditions which have the transient state instability in the power system

- a) Switching operation on the transmission line
- b) Any short circuits

c) Excitation loss in the generator

Ans: (c)

6. Which of the following equipment one will choose to study the stability of A.C. power system?

- a) Energy meter
- b) Network analyser
- c) Network synthesizer
- d) (b) or (c)

Ans: (b)

7. The breaking torque which plugging the machine at zero speed will be

- a) Zero
- b) High
- c) Small
- d) None of the above

Ans: (b)

8. The dynamic breaking of the machine offers the highest breaking torque in comparison to other breaking methods.

- a) True
- b) False

Ans: (b)

9. The drop in the terminal voltage of the shunt generator on load may be attributed to

- a) Increase in armature resistance
- b) Drop in field current due to armature reaction
- c) Drop in field current due to drop in armature resistance
- d) (b) and (c) both

Ans: (d)

10. If the load is not connected to the d.c. series motor then

- a) It will not build up the voltage
- b) It will build up very high voltage
- c) It will have very low speed
- d) none of the above

Ans: (a)

11. corona loss in the power lines is more in winter season than the summer season.

- a) True
- b) False

Ans: (a)

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12. The single phasing relays are used for the protection of

- a) Single phase motor only
- b) Two-phase motors only
- c) Two single phase motor running in parallel
- d) Three phase motors

Ans: (d)

13. Two protection zone in the electrical transmission system is decided

- a) Location of PT
- b) Location of CT
- c) Relay's size
- d) Relay's sensitivity

Ans: (b)

14. Which of the following device will receive Voltage Surge first traveling on the transmission line

- a) Step-down transformer
- b) Relays
- c) Switchgear
- d) Lightning arresters

Ans: (d)

15. The fault impedance of the line is

- a) Less than the impedance of healthy line
- b) More than the impedance of healthy line
- c) Equal to the impedance of the healthy line
- d) None of the above

Ans: (a)

16. Which of the following parameter can be neglected for a short line?

- a) Resistance
- b) Inductance
- c) Reactance
- d) Capacitance

Ans: (d)

17. The stability of a salient pole alternators is better than the stability of a non-salient pole alternators.

- a) True
- b) False

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Ans: (a)

18. Series reactors should have

- a) High resistance
- b) Low resistance
- c) High impedance
- d) Low impedance

Ans: (b)

19. Which of the following frequency variation for power frequency is as per IS?

- a) 2.5%
- b) 5%
- c) $\pm 5\%$
- d) $\pm 2.5\%$

Ans: (c)

20. Which of the following device will be preferred to control the power system voltage?

- a) Transformers
- b) Shunt capacitors
- c) Series capacitors
- d) Electronic amplifiers
- e) Synchronous conductors

Ans: (e)

21. What is Power Quality?

Many answers apply to this simple question. They all depend on your perspective.

From the utility perspective, Power Quality has been defined as the parameters of the voltage that affect the customers supersensitive equipment.

From the power user perspective, Power Quality may be defined as any electrical parameter or connection that affects the operation of the equipment. This included all electrical parameters, connections and grounds, whether the source from the utility, local equipment or other users.

From the Power Quality market or industry perspective, it is any product or service that is supplied to users or utilities to measure, treat, remedy, educate engineers or prevent Power Quality issues, problems and related items.

Interesting note: A survey by Georgia Power in the mid 1990's revealed that utilities perception is 1% of the Power Quality problems are caused by the utility. The users perception is the utility is 17% of the cause. The utility perspective is the customer is 25% of the cause and users perspective is the customer is 12% of the cause.

22. What are the commonly used terms that describe the parameters of electrical power that describe or measure Power Quality?

Voltage sags	Voltage variations	Interruptions	Swells	Brownouts
Blackouts	Voltage imbalance	Distortion	Harmonics	Harmonic resonance
Interharmonics	Notching	Noise	Impulse	Spikes (Voltage)
Ground noise	Common mode noise	Critical load	Crest factor	Electromagnetic compatibility
Dropout	Fault	Flicker	Ground	Raw power
Ground loops	Voltage fluctuations	Transient	Dirty power	Momentary interruption
Clean ground	Over voltage	Under voltage	Non-linear load	THD Total Harmonic Distortion
Triplens	Voltage dip	Voltage regulation	Blink	Oscillatory transient
Outage	Power surge	Glitch	Isolation	Bump

23. What are the types of Power Quality solutions available on the market today?

There are hundreds of manufacturers making thousands of different Power Quality solutions today.

The categories of these solutions are:


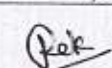
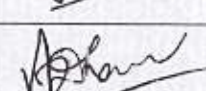
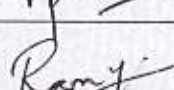
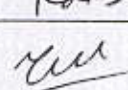
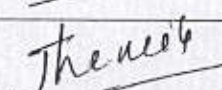
- Utility based solutions for the substation level.
- User based solution for whole facility protection.
- User load level solutions for specific loads
- Designed in solutions, built in by the equipment manufacturer to reduce the sensitivity to Power Quality problems.

24. How can Power Quality problems be detected?

Determining the exact problems requires sophisticated electronic test equipment. The following symptoms are indicators of Power Quality problems:

1. A piece of equipment misoperates at the same time of day.
2. Circuit breakers trip without being overloaded.
3. Equipment fails during a thunderstorm.
4. Automated systems stop for no apparent reason.
5. Electronic systems fail or fail to operate on a frequent basis.
6. Electronic systems work in one location but not in another location.

Approved by Academic Committee Members & HOD

Sl No.	Faculty Name	Designation	Signature
1	Dr. K N Ravi	HOD	
2	Prof. Rekha SN	Associate Professor	
3	Prof. Damodaran A	Assistant Professor	
4	Prof. Ramya M	Assistant Professor	
5	Prof. Yousuf Madar	Assistant Professor	
6	Prof. Jhansi K	Assistant Professor	



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PROF & HOD

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Sapthagiri College of Engineering
Bangalore - 560057.



Principal

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Bangalore- 560 057

5 days Certification Course on "POWER QUALITY"

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:

Topic went as per schedule. all topic
explained very well & understandable for average students.

Student Name: Monohara S

Student Signature: Manohara S

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Sapthagiri College of Engineering
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Bangalore- 560 057

5 days Certification Course on "POWER QUALITY"

Participant Feedback

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a) Poor b) Satisfactory c) Good d) ☒ Excellent
7. Generally how was your overall experience during the Certification Course
a) Poor b) Satisfactory c) Good d) ☒ Excellent
8. Any Suggestions:

Overall its good. We understood several power quality terms & harmonics minimized techniques.

Student Name : *Manish Manjunath Narayana* Student Signature: *Manish Manjunath Narayana*

[Signature]
Principal

5 days Certification Course on "POWER QUALITY"

Participant Feedback

1. How was the overall organization of the Certification Course ?
a) Poor b) Satisfactory ☒ c) Good d) Excellent
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a) Poor b) Satisfactory c) Good ☒ d) Excellent
7. Generally how was your overall experience during the Certification Course
a) Poor b) Satisfactory ☒ c) Good d) Excellent
8. Any Suggestions:

Overall its good. All topics in lesson plan was explained
Basics Basics very well. The test question are made
proportional to explained in course.

Student Name : Meghana S Hulukal

Student Signature: Meghana S Hulukal

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Bangalore-560057

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Participant Feedback

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

All topics explained very well, hands on session
need to improve. We understand this course well.

Student Name : Narayana S. R.

Student Signature: Narayana S. R.

5 days Certification Course on "POWER QUALITY"

Participant Feedback

1. How was the overall organization of the Certification Course ?
a) Poor b) Satisfactory c) ☒ Good d) Excellent
2. How appropriate were the facilities provided ?
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a) Poor b) Satisfactory c) ☒ Good d) Excellent
7. Generally how was your overall experience during the Certification Course
a) Poor b) Satisfactory c) ☒ Good d) Excellent
8. Any Suggestions:

I understand all the topics. overall its
good.

Student Name : Ganesh Rao

Student Signature: Ganesh Rao

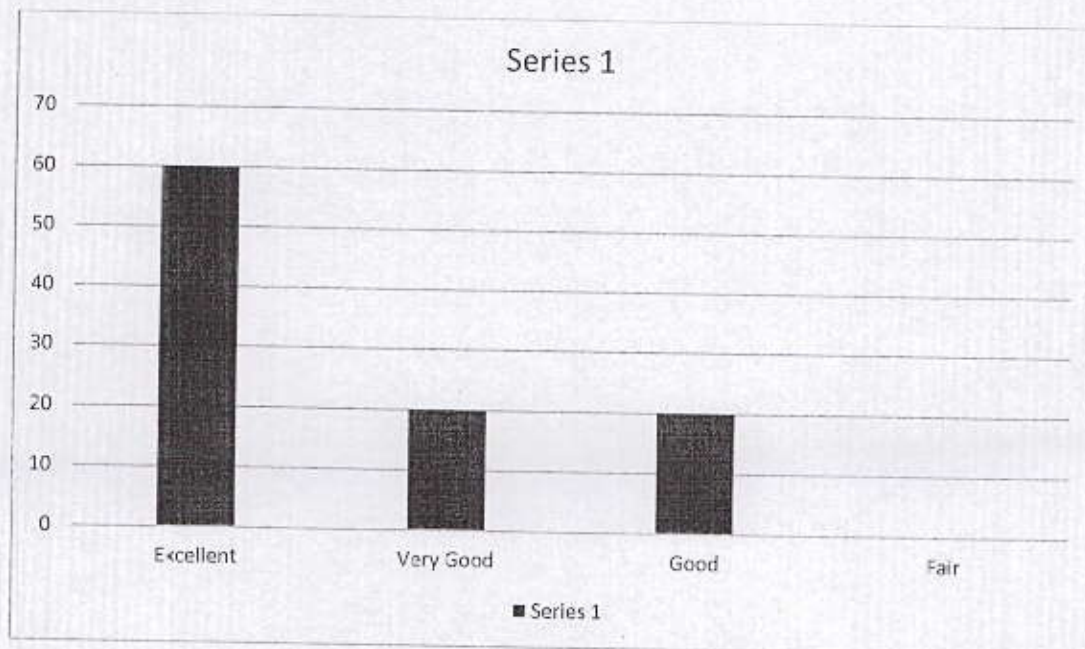
Principal

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Chikkasandra, Hesaraghatta Road,
Bangalore-560 057

FEEDBACK ANALYSIS

Certification Programme: **"Power Quality"**

No. of students participated	Student Feedback			
	Excellent	Very Good	Good	Average
160	60	20	20	0




Action Report:

60 % of students were completely happy with the certification program and 20 % 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 Coordinator


Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
Bangalore-560057


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



Sapthagiri College of Engineering

Bangalore-560057

Certificate

This is to Certify that Mr./Ms. _____

Of _____ has participated
and successfully completed Five days Certification Course on **"Power Quality"** from
25th July, 2016 to 29th July, 2016 organized by the Department of Electrical &
Electronics Engineering, Sapthagiri College of Engineering.

HOD, Dept. of EEE


Principal
Sapthagiri College of Engineering
143/2, Hosur Road, Hosuraghatta Main Road
Bangalore - 560 057

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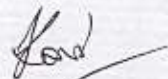


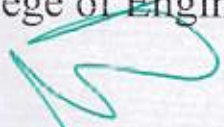
Sapthagiri College of Engineering

Bangalore-560057

Certificate

This is to Certify that Mr./Ms. SANDESH R 1SG15EE432
Of EEE has participated
and successfully completed Five days Certification Course on "*Power Quality*" from
25th July, 2016 to 29th July, 2016 organized by the Department of Electrical &
Electronics Engineering, Sapthagiri College of Engineering.


HOD, Dept. of EEE


Principal
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Bangalore-560 057


PRINCIPAL




Sapthagiri College of Engineering

Bangalore-560057

Certificate

This is to Certify that Mr./Ms. SUNIL B-G - 15G15EE442
Of EEE has participated
and successfully completed Five days Certification Course on "*Power Quality*" from
25th July, 2016 to 29th July, 2016 organized by the Department of Electrical &
Electronics Engineering, Sapthagiri College of Engineering.


HOD, Dept. of EEE


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


PRINCIPAL

Certificate Course Report

Department of EEE conducted Certificate Course on "Power Quality"

Guest Speaker: Dr Dinesh, Associate Professor, Dept. Of EEE, R V College Of Engineering, Bangalore-560059.

Duration of the course: was for five days from July 25th 2016 to July 29th 2016

Course detail

Objective of the Course: Analyzing electrical parameters associated with distributing electricity is viewed by many as complex engineering work. Yet, for engineers, electricians, and technicians troubleshooting equipment problems these days and for contractors maintaining electrical systems they may have once installed measuring power quality is becoming as much of a necessity as using the clamp ammeter to find out why the overloaded circuits keep tripping.

When any electrical system fails to meet its purpose, it is time to investigate the problem, find the cause, and initiate corrective action. The purpose of the electrical distribution system is to support proper operation of the loads. When a load does not operate properly, the quality of the electric power in the system should be suspected as one possible cause. Whether it's used for troubleshooting purposes or to obtain baseline data, measuring/analyzing electrical system parameters is called power quality analysis.

Schedule of Certification Course

Dates	SESSION 1 (9.00am-10.30am)	SESSION 2 (11.00am-12.30pm)	SESSION 3 (1.30pm-4.30pm)
25-07-2016 Monday	<ul style="list-style-type: none"> Power quality – definition Common types of power quality problems encountered in a system 	<ul style="list-style-type: none"> Reliability indicators (SAIDI, SAIFI, and etc.) used by utilities, Measures to improve reliability. Power interruptions – problems and some reasons for these. 	<ul style="list-style-type: none"> Hands on Voltage sag and examples – problems some reasons for these Voltage regulation methods
26-07-2016 Tuesday	<ul style="list-style-type: none"> Unbalance in power systems Symmetrical components for quantifying the unbalance 	<ul style="list-style-type: none"> Mitigation measures Definition of harmonics Fourier theorem for analysis 	<ul style="list-style-type: none"> Hands on Collections Flicker and control by SVC equipment
27-07-2016 Wednesday	<ul style="list-style-type: none"> Analysis of power quality problems engine-based interrupted supplies 	<ul style="list-style-type: none"> Power quality site studies types of studies Study using a power quality analyzer 	<ul style="list-style-type: none"> Hands on measurement Recording the measurements Analysis of the results Report preparation

Principal

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Bangalore- 560 057

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Phone: 080-28372800/1/2

www.sapthagiri.edu.in

Fax: 080-28372797

Department of Electrical & Electronics Engineering

28-07-2016 Thursday	<ul style="list-style-type: none"> Problems caused by unbalanced current/voltage 	<ul style="list-style-type: none"> Harmonic control at source. Use of automatic circuit reclosers. 	<ul style="list-style-type: none"> Hands on Reason for harmonics Problems caused by harmonics
29-07-2016 Friday	<ul style="list-style-type: none"> Emergency power, electronic uninterrupted power supply equipment, 	<ul style="list-style-type: none"> Over-voltage and its effect Transient over-voltage and the role of surge protection 	<ul style="list-style-type: none"> Hands on Active and passive filters and comparison and 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 duties and responsibilities to carry out the Certificate course.



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Department of Electrical & Electronics Engineering




HOD-EEE

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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 Hybrid Electric Vehicle"

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 "Hybrid Electric Vehicle" from 27-Jan-2017 to 01-Feb-2017.

In this regard, I request you to kindly grant permission for the conduction of the course the above specified event for Please grant permission for the sanction of Rs.4200 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	160	20	3200
2	Course Material			1000
Grand Total				4200

Forwarded for the GC approval & ratification
[Signature]

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

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

Sapthagiri College of Engineering


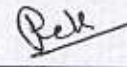
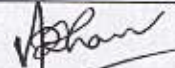
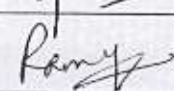
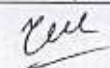
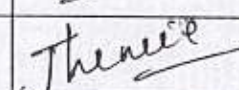
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Department of Electrical & Electronics Engineering

Date: 05/01/2017

CIRCULAR

This is to inform that the following Curriculum Board members are requested to attend the meeting on 06/01/2017 at 3.00PM 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 S N	Associate Professor	
3	Prof. Dhamodaran A	Assistant Professor	
4	Prof. Ramya M	Assistant Professor	
5	Prof. Youisuf Madar	Assistant Professor	
6	Prof. Jhansi K	Assistant Professor	


HOD, EEE

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


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Department of Electrical & Electronics Engineering

Date: 05-01-2017

To,

Mr JayaKumar
Retired Joined Director,
CPR,
Bangalore-560012.

Respected Sir,

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

Department of Electrical and Electronics Engineering have planned to conduct a certification program titled "HYBRID ELECTRIC VEHICLE" for EEE students from 27-01-2017 to 01-02-2017. In this connection, we are privileged to invite you as a guest speaker on the above mentioned topic.

Thanking you for your kind acceptance to our request on phone. We request you to attend the meeting to discuss about the conduction of certification course on 6/01/2017 3PM. we look forward to welcome you at SCE.

Thanking you,


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Department of Electrical & Electronics Engineering

Minutes of Meeting

A meeting was conducted on 06-Jan-2017 in EEE HOD's Chamber to discuss and approve the following about the 5 days Certification Course for EEE Students.

- **Course Title :** "HYBRID ELECTRIC VEHICLE"
- **Resource Personnel:** Mr. JayaKumar Retired Joined Director, CPRI, Bangalore-560012.
- **Course Duration & Date:** 5 Days from 27-Jan-2017 to 01-Feb-2017
- **Course Content :**

Dates	SESSION 1 (9.00am-10.30am)	SESSION 2 (11.00am-12.30pm)	SESSION 3 (1.30pm-4.30pm)
27-01-2017 Friday	Micro grid with RE	Modelling of wind and solar	Hands on Modelling of wind and solar
28-01-2017 Saturday	EV and ES in India overview.	Electric storage system	Hands On Electric storage system
30-01-2017 Monday	Modeling of battery storage system.	Modeling of battery storage system	Hands on Battery designing.
31-01-2017 Tuesday	Modelling of EV charging system.	Modelling of EV charging system.	Hands on Micro grid with EV and storage
01-02-2017 Wednesday	IoT and data analytics in RE, EV and ES system	IoT and data analytics in RE, EV and ES system	Hand on session RE, EV and ES system, Test and Certificate issue and validation

Principal

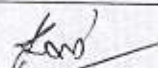

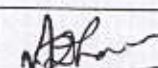
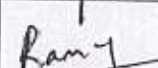

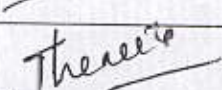
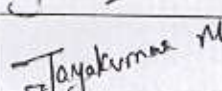
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Department of Electrical & Electronics Engineering

The following Curriculum board members were present

Sl No.	Faculty Name	Designation	Signature
1	Dr. K N Ravi	HOD	
2	Prof. Rekha S N	Associate Professor	
3	Prof. Dhamodaran A	Assistant Professor	
4	Prof. Ramya M	Assistant Professor	
5	Prof. Yousuf Madar	Assistant Professor	
6	Prof. Jhansi K	Assistant Professor	
7	Mr JayaKumar	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 "HYBRID ELECTRIC VEHICLE" from 27-Jan-2017 to 1-feb-2017

All the EEE students must attend the course compulsorily.

Signature of HOD

PROF & HOD

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

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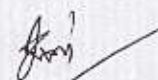
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Department of Electrical & Electronics Engineering

Certification Program: "HYBRID ELECTRIC VEHICLE"

Lesson Planner

Dates	SESSION 1 (9.00am-10.30am)	SESSION 2 (11.00am-12.30pm)	SESSION 3 (1.30pm-4.30pm)	No. of Hours
27-01-2017 Friday	Microgrid with RE	Modelling of wind and solar	Hands on Modelling of wind and solar	6
28-01-2017 Saturday	EV and ES in india overview.	Electric storage system	Hands On Electric storage system	6
30-01-2017 Monday	Modeling of battery storage system.	Modeling of battery storage system	Hands on Battery designing.	6
31-01-2017 Tuesday	Modelling of EV charging system.	Modelling of EV charging system.	Hands on Micro grid with EV and storage	6
01-02-2017 Wednesday	IoT and data analytics in RE, EV and ES system	IoT and data analytics in RE, EV and ES system	Hand on session RE, EV and ES system, Test and Certificate issue and validation	6
TOTAL				30


HOD
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Sapthagiri College of Engineering
Bengaluru - 560057.


GUEST SPEAKER


Principal
Sapthagiri College of Engineering
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Bengaluru - 560 057

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

5 days Certification Program on "Hybrid Electric Vehicle"

Students Enrollment

Academic Year _2016-17(EVEN)

SL.No	USN	Student Name	Signature
1	1SG15EE062	PRAJWAL S R	Prajwal
2	1SG15FF064	PRARTHANA R PADMANABH	Prarthana
3	1SG15FF065	PRASHANT KUMAR	Rth Kumar
4	1SG15FF067	PRIYA J SHANKAR	Priya
5	1SG15FF068	R ABHISHEK	Abhishek
6	1SG15FF069	RACHANA M	Rachana M
7	1SG15FF070	RAGHAVENDRA M	Ragavendra M
8	1SG15FF071	RAGHAVENDRA S	Ragha
9	1SG15FF072	RAGLAJAYA	Ragla
10	1SG15FF073	RAMACHANDRA	Ramach
11	1SG15FF074	RAMYA P	Ramy
12	1SG15FF075	RAVEESH VENKATESH	Raveesh
13	1SG15FF076	RAVIPRAKASH H	Raveesh
14	1SG15FF077	ROHITH R	Rohith R.
15	1SG15FF078	S DARSHAN	Darshan
16	1SG15FF079	SACHIN Y	Sachin Y
17	1SG15FF080	SANDESH V	Sandesh
18	1SG15FF081	SATHISH R	Sathish R.
19	1SG15FF082	SHANU	Shanu
20	1SG15FF083	SHARATH C	Sharath
21	1SG15FF084	SHRIJANA R KUMAR	Shrijana
22	1SG15FF085	SOUNDARYA M	Soundarya M
23	1SG15FF086	SRIKANT KADGI	Srikant Kadgi
24	1SG15FF088	SUMANTH S	Sumanth S
25	1SG15FF089	SUPRIYA P R	Supriya P.R.
26	1SG15FF090	SURABHI M	Surabhi M
27	1SG15FF091	SWATHI B C	Swathi
28	1SG15FF092	UMESHKUMAR B R	Umesh
29	1SG15FF093	VARUN K SHETTY	Varun
30	1SG15FF094	VIKAS KUMAR SINGH	Vikas
31	1SG15FF095	VINITH KUMAR T	Vinith
32	1SG15FF096	VINUTHA D	Vinutha
33	1SG15FF097	VISHAL S PUJARI	Vinutha D
34	1SG16EE400	ABDUL RIYAZ	Abdul
35	1SG16EE401	ABHISHEK C B	Abhishek
36	1SG16EE402	ABHISHEK GOWDA D N	Abhishek
37	1SG16EE403	AJAY BHAVA S	Ajay Bhava S.
38	1SG16EE404	AKHILESH V	Akhilesh
39	1SG16EE405	AKHILESH VINOD	Akhilesh
40	1SG16EE406	ANIL KUMAR	Anil Kumar
41	1SG16EE407	ARUN KUMAR P	Arun Kumar P
42	1SG16EE408	CHAITANYA A	Chaitanya

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Department of Electrical and Electronics Engineering

Sl.No	USN	Student Name	Signature
43	1SG16FF409	CHANDAN K	Chandan K
44	1SG16FF410	DAKSHINA MURTHY N R	Dakshina
45	1SG16FF411	GEETHA S	Geetha S
46	1SG16FF412	GOVARDHAN G	Govardhan G
47	1SG16FF413	GURU H	Guru H
48	1SG16FF414	HARISH KUMAR M	Harish M
49	1SG16FF415	JAYANTH M V	Jayanth M V
50	1SG16FF416	K SRIKANTH	K Sri
51	1SG16FF417	KARTHIK R	Karthik R
52	1SG16FF418	KAUSHITH GOWDA M	Kaushith
53	1SG16FF419	KEERTHANKUMAR H N	Keerthankumar
54	1SG16FF420	KIRAN KUMAR K	Kiran K
55	1SG16FF421	KOTRESH P	Kotresh P
56	1SG16FF422	KRANTHIKUMAR G S	Kranthi
57	1SG16FF423	LAKSHMANA H R	Lakshman
58	1SG16FF424	MANJUNATH GOWDA V	Manjunath
59	1SG16FF431	NAYANASHREE B	Nayanashree B
60	1SG16EE432	NILESH N GUNJIKAR	Nilesh N
61	1SG16FF433	NIRANJAN K	Nirajan
62	1SG16FF434	NITHIN G	Nithin G
63	1SG16FF437	RAKESH B	Rakesh B
64	1SG16FF438	RAKESH T	Rakesh T
65	1SG16FF439	RAKESH S	Rakesh S
66	1SG16FF440	RAKSHATH C U	Rakshath
67	1SG16FF441	RILIJU	Riliju
68	1SG16FF442	SAGAR G	Sagar G
69	1SG16FF443	SHASHANK K S	Shashank K S
70	1SG16FF444	SHIVAPRASAD D M	Shivaprasad
71	1SG16FF445	SIDDESHA G	Siddesha G
72	1SG16FF446	SUHAS S R	Suhas S R
73	1SG16EE447	SUPRITH I	Suprith I
74	1SG16FF450	VARUN K M	Varun K M
75	1SG16FF451	VINOD M	Vinod M
76	1SG16FF452	YASHWANTH M I	Yashwanth M I
77	1SG13EE019	DEEPAK KUMAR	Deepak Kumar
78	1SG14EE082	KANTHIKIRAN	Kanthikiran
79	1SG15EE422	MEGHANA M S	Meghana M S
80	1SG15EE426	NANDEESH K S	Nandeesh K S

(Signature)
(Program Coordinator)

Principal

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(Signature)
PROF & HOOD
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Department of Electrical and Electronics Engineering

5 days Certification Program on "Hybrid Electric Vehicle"

Students Enrollment

Academic Year -2016-17(EVEN)

SL.No	USN	Student Name	Signature
1	1SG16EE001	A R GOITAM	Goutami
2	1SG16FF003	ABHISHEK HOLLAM	Abhishek
3	1SG16FF004	ABHISHEK S	Abhishek S.
4	1SG16FF005	ADARSH K	Adarsh
5	1SG16FF006	AISHWARYA RAVI	Aishwarya
6	1SG16FF007	AISHWARYA S	Aish
7	1SG16FF008	AMITH SURAJ	Amith
8	1SG16FF009	ANANYA V	Ananya
9	1SG16FF010	ANIL P	Anil
10	1SG16FF011	ANUSHA M S	Anusha
11	1SG16FF012	ARPITHA G	Arpitha G
12	1SG16FF013	ARPITHA P	Arpitha
13	1SG16FF014	ASHEAQUE AHMED	Asheque
14	1SG16FF015	ASHWINI N	Ashwin N.
15	1SG16FF016	BHANU PRATAP YADAV	Bhanu
16	1SG16FF017	BHAVYA M	Bhav
17	1SG16FF018	BHOOMIKA VASANTH	Bhoomi
18	1SG16FF019	BLI LAYESHA S	Blil
19	1SG16FF020	CHANDAN S R	Chandana
20	1SG16FF022	CHIDANANDA C	Chidan
21	1SG16FF023	CHIRAG S	Chirag
22	1SG16FF024	DEEPA T S	Deepa
23	1SG16FF025	DHANUSH S	Dhanush
24	1SG16FF026	DIXITH R	Dixit
25	1SG16FF027	FAIZA FATHIMA A	Faiza
26	1SG16FF028	Feroz Ahmed M	Feroz
27	1SG16FF029	GAGAN H J	Gagan
28	1SG16FF030	GAGAN KUMAR GANDHI K	Gagan
29	1SG16FF031	GAGANA R	Gagana R.
30	1SG16FF032	GANAVI C A	Ganavi
31	1SG16FF033	GOUTHAMI K	Gouthami K.
32	1SG16FF034	HARSHITHA C GOWDA	Harshitha
33	1SG16FF035	HARSHITHA N	Harshitha N.
34	1SG16FF036	HEMA S	Hema
35	1SG16FF037	JEFFAN KUMAR R	Jeffan
36	1SG16FF038	JYOTHI GADE	Jyoti
37	1SG16FF039	K KARTHIK DUBEY	Karthik
38	1SG16FF040	KALAN	Kala N.
39	1SG16FF041	KARISHMA JAISWAL	Karishma
40	1SG16FF042	KAVYA B P	Kavya B
41	1SG16FF043	KAVYA SHREE R	Kavya Shree R.

Principal

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

SL.No	USN	Student Name	Signature
42	1SG16EE044	KAVYASHREE S	Kavyashree S
43	1SG16EE045	KIRAN KUMAR	Kiran Kumar
44	1SG16EE046	KUSHAL M P	Kushal M P
45	1SG16EE047	KUSUMA H	Kusuma H
46	1SG16EE048	M MONICA	M Monica
47	1SG16EE049	MADHUKAR K	Madhukar K
48	1SG16EE051	MALATHI R	Malathi R
49	1SG16EE053	MANJUNATH T	Manjunath T
50	1SG16EE054	MONIKA N	Monika N
51	1SG16EE055	MOJINA M	Mojina M
52	1SG16EE057	NANDA KUMAR J	Nanda Kumar J
53	1SG16EE058	NEHA TOMAR	Neha Tomar
54	1SG16EE059	NIKHIL NINGOLDA PATIL	Nikhil Ningolda Patil
55	1SG16EE060	NIKHIL TOMAR	Nikhil Tomar
56	1SG16EE061	NIKITHA K	Nikitha K
57	1SG16EE062	NIRANJAN K B	Niranjana K B
58	1SG16EE063	NIROSHA H V	Nirosha H V
59	1SG16EE064	NISHANTH M G	Nishanth M G
60	1SG16EE065	PAVITHRA G	Pavithra G
61	1SG16EE066	PAVITHRA R	Pavithra R
62	1SG16EE067	POOVAIAH M K	Poovaliah M K
63	1SG16EE068	PRAJWAL S	Prajwal S
64	1SG16EE069	PRAKRUTHI JAIN Y S	Praakruthi Jain S Y
65	1SG16EE070	PRASHANTH NAYAKA T	Prashanth Nayaka T
66	1SG16EE071	PRAVEEN J	Praveen J
67	1SG16EE072	PUNEETH N	Puneeth N
68	1SG16EE073	RAJESH YADAV	Rajesh Yadav
69	1SG16EE074	RAKESH G	Rakesh G
70	1SG16EE075	REVAN KUMAR G K	Revan Kumar G K
71	1SG16EE078	S MANISH	S Manish
72	1SG16EE079	SANGMESH	Sangmesh
73	1SG16EE081	SANTOSH KUMAR K S	Santosh Kumar K S
74	1SG16EE082	SANTOSH S G	Santosh S G
75	1SG16EE083	SATYENDRA KUMAR YADAV	Satyendra Kumar Yadav
76	1SG16EE098	SLSHMA G R	Slshma G R
77	1SG16EE099	SWATHI B	Swathi B
78	1SG16EE100	VANDANA M	Vandana M
79	1SG16EE101	VANDANA RAO J	Vandana Rao J
80	1SG16EE098	S JSHMA G R	S Jshma G R


(Program Coordinator)


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



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

5 days Certification Program on "Hybrid Electric Vehicle"

Attendance

Sl. No	USN	Student Name	27-01-2017		28-01-2017		30-01-2017		31-01-2017		01-02-2017		
			MS	AS	MS	AS	MS	AS	MS	AS	MS	AS	Test
1	1SG15EE062	PRAJWAL S R	1	2	3	4	5	6	7	A	8	9	10
2	1SG15EE064	PRARTHANA R PADMANABH	1	2	3	A	4	5	6	7	8	9	10
3	1SG15EE065	PRASHANT KUMAR	1	2	3	4	5	A	6	7	8	9	10
4	1SG15EE067	PRIYA J S HANKAR	1	2	3	4	5	6	7	8	9	10	11
5	1SG15EE068	R ABHISHEK	1	2	3	4	5	6	7	8	9	10	11
6	1SG15EE069	RACHANA M	1	2	3	4	5	6	7	8	9	10	11
7	1SG15EE070	RAGHAVENDRA M	1	2	3	4	5	6	7	8	9	10	11
8	1SG15EE071	RAGHAVENDRA S	1	2	3	4	5	A	6	7	8	9	10
9	1SG15EE072	RAGI JAYA	1	A	2	3	4	5	6	7	8	9	10
10	1SG15EE073	RAMACHANDRA	1	2	3	4	5	6	7	8	9	10	11
11	1SG15EE074	RAMYA P	1	2	A	A	3	4	5	6	7	8	9
12	1SG15EE075	RAVEESH VENKATESH SHET	1	2	3	4	5	6	7	A	8	9	10
13	1SG15EE076	RAVIPRAKASH H	1	2	3	4	5	A	6	7	8	9	10
14	1SG15EE077	ROHITH R	1	A	2	3	4	5	6	7	8	9	10
15	1SG15EE078	S DARSHAN	1	2	3	A	4	5	6	A	7	8	9
16	1SG15EE079	SACHIN Y	1	A	2	3	4	5	6	7	8	9	10
17	1SG15EE080	SANDESH V	1	2	A	3	4	5	6	7	8	9	10
18	1SG15EE081	SATHISH R	1	2	3	4	5	6	7	8	9	10	11
19	1SG15EE082	SHANU	1	A	2	3	4	A	5	6	7	8	9
20	1SG15EE083	SHARATH C	1	2	3	4	5	6	7	8	9	10	11
21	1SG15EE084	SHRIJANA P KUMAR	1	2	3	A	4	5	6	7	8	9	10
22	1SG15EE085	SOUNDARYA M	1	2	3	4	5	6	7	8	9	10	11
23	1SG15EE086	SRIKANT KADGI	1	2	3	4	5	6	7	8	9	10	11
24	1SG15EE088	SUMANTH S	1	A	2	3	4	5	6	7	8	9	10
25	1SG15EE089	SUPRIYA P R	1	2	3	A	4	5	A	6	7	8	9
26	1SG15EE090	SURABHIM	1	2	3	4	A	5	6	7	8	9	10
27	1SG15EE091	SWATHI B C	1	2	A	3	4	5	6	7	8	9	10
28	1SG15EE092	UMESH KUMAR B R	1	2	3	4	5	6	7	8	9	A	A
29	1SG15EE093	VARUN K SHETTY	1	2	3	4	5	6	7	8	9	10	11
30	1SG15EE094	VIKAS KUMAR SINGH	1	2	3	4	5	A	6	7	8	A	A
31	1SG15EE095	VINITH KUMAR T	1	2	3	4	5	6	A	7	8	9	10
32	1SG15EE096	VINUTHA D	1	2	3	4	5	6	7	8	9	10	11
33	1SG15EE097	VISHAL S PUJARI	A	1	2	3	4	5	6	7	A	8	09
34	1SG16EE400	ABDUL RIYAZ	1	2	3	4	5	6	7	8	9	10	11
35	1SG16EE401	ABHISHEK C B	1	2	3	4	5	6	7	8	9	10	11
36	1SG16EE402	ABHISHEK GOWDA D N	1	2	3	4	A	5	6	7	8	9	10
37	1SG16EE403	AJAY BHAVA S	1	2	3	4	5	6	7	A	8	9	10
38	1SG16EE404	AKHILESH V	A	1	2	3	4	5	6	7	8	A	9
39	1SG16EE405	AKHILESH VINOD KALGUTKAR	1	2	3	4	5	6	7	8	9	10	10
40	1SG16EE406	ANIL KUMAR	1	A	2	3	A	4	5	6	7	8	9
41	1SG16EE407	ARUN KUMAR P	1	2	3	4	5	6	7	8	9	10	11
42	1SG16EE408	CHAITANYA A	1	2	3	4	5	6	7	8	9	10	11
43	1SG16EE409	CHANDAN K	A	1	2	3	4	5	A	6	7	8	9

Sl. No	USN	Student Name	27-01-2017		28-01-2017		30-01-2017		31-01-2017		01-02-2017		
			MS	AS	MS	AS	MS	AS	MS	AS	MS	AS	Test
44	1SG16EE410	DAKSHINA MURTHY N B	1	2	3	4	5	6	A	7	8	9	10
45	1SG16EE411	GEETHA S	1	2	3	4	5	6	7	8	9	10	11
46	1SG16EE412	GOVARDHAN G	1	2	3	4	5	6	7	8	9	10	11
47	1SG16EE413	GURU H	1	2	3	A	4	5	6	7	8	9	10
48	1SG16EE414	HARISH KUMAR M	1	2	3	4	5	A	6	7	A	8	9
49	1SG16EE415	JAYANTH M V	1	2	3	4	5	6	7	8	9	10	11
50	1SG16EE416	K SRIKANTH	1	2	3	4	5	6	7	8	9	10	11
51	1SG16EE417	KARTHIK R	1	A	2	3	4	5	6	7	8	9	10
52	1SG16EE418	KAUSHITH GOWDA M	1	2	3	4	5	6	7	8	9	10	11
53	1SG16EE419	KEERTHANKUMAR H N	1	2	3	4	5	A	6	7	8	9	10
54	1SG16EE420	KIRAN KUMAR K	1	2	3	4	5	6	7	8	9	10	11
55	1SG16EE421	KOTRESH P	1	2	3	4	5	6	7	8	9	10	11
56	1SG16EE422	KRANTHIKUMAR G S	1	2	3	4	5	6	7	8	9	10	11
57	1SG16EE423	LAKSHMANA H R	1	A	2	3	4	5	6	7	8	A	9
58	1SG16EE425	MANJUNATH GOWDA V	1	2	3	4	5	6	7	8	9	10	11
59	1SG16EE431	NAYANASHREE B	1	2	3	4	5	A	6	7	8	9	10
60	1SG16EE432	NILESH N GUNJIKAR	1	2	3	4	5	6	7	8	9	10	11
61	1SG16EE433	NIRANJAN K	1	2	3	4	5	6	7	8	9	10	11
62	1SG16EE434	NITHIN G	1	2	3	4	5	6	7	8	9	10	11
63	1SG16EE437	RAKESH B	1	2	3	4	5	6	7	8	9	10	11
64	1SG16EE438	RAKESH T	1	2	3	4	A	5	6	7	8	9	10
65	1SG16EE439	RAKESH S	1	2	3	4	5	6	7	8	9	10	11
66	1SG16EE440	RAKSHATH C U	1	2	3	4	5	6	7	8	9	10	11
67	1SG16EE441	RIJU J	1	2	3	4	5	6	7	8	A	9	10
68	1SG16EE442	SAGAR G	1	2	3	4	5	6	7	8	9	10	11
69	1SG16EE443	SHASHANK K S	1	A	2	3	4	5	6	7	8	9	10
70	1SG16EE444	SHIVAPRASAD D M	1	2	3	4	5	6	7	8	9	10	11
71	1SG16EE445	SIDDHESHA G	1	2	3	4	5	6	7	8	9	10	11
72	1SG16EE446	SUHAS S R	1	2	3	4	5	A	6	7	8	A	A
73	1SG16EE447	SUPRITH L	1	2	3	4	5	6	7	8	9	10	11
74	1SG16EE450	VARUN K M	1	2	3	4	5	6	7	8	9	10	11
75	1SG16EE451	VINOD M	1	2	3	4	5	6	7	8	9	10	11
76	1SG16EE452	YASHWANTH M I	1	A	2	3	4	5	6	7	8	9	10
77	1SG13EE019	DEEPAK KUMAR	1	2	3	4	5	6	7	A	8	9	10
78	1SG14EE082	KANTHI KIRAN	1	2	3	4	5	6	7	8	9	10	11
79	1SG15EE422	MEGHANA M S	1	2	3	4	5	6	7	8	9	10	11
80	1SG15EE426	NANDEESH K S	1	2	3	4	5	6	7	8	9	10	11
Signature			(MS)	(AS)	(MS)	(AS)	(MS)	(AS)	(MS)	(AS)	(MS)	(AS)	(Test)


PROGRAM COORDINATOR


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Department of Electrical & Electronics Engineering
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Principal
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Bengaluru - 560 057


5 days Certification Program on Hybrid Electric Vehicle"


Attendance

Sl. No	USN	Student Name	27-01-2017		28-01-2017		30-01-2017		31-01-2017		01-02-2017		
			MS	AS	MS	AS	MS	AS	MS	AS	MS	AS	Test
1	1SG16EE001	A R GOUTAM	1	2	3	4	5	6	7	8	9	10	11
2	1SG16EE003	ABHISHEK HOLLA M	1	2	3	4	5	6	7	8	9	10	11
3	1SG16EE004	ABHISHEK S	1	2	3	4	5	6	7	8	9	10	11
4	1SG16EE005	ADARSH K	1	2	3	4	5	6	7	8	9	10	11
5	1SG16EE006	AISHWARYA RAVI	A	1	2	3	4	5	6	7	8	9	10
6	1SG16EE007	AISHWARYA S	1	2	3	4	5	6	7	8	9	10	11
7	1SG16EE008	AMITH SURAJ	1	2	3	4	5	6	7	8	9	10	11
8	1SG16EE009	ANANYA V	1	2	3	4	5	6	7	8	9	10	11
9	1SG16EE010	ANJU P	1	2	3	4	5	6	7	8	9	10	11
10	1SG16EE011	ANUSHA M S	1	2	3	4	5	6	7	8	9	10	11
11	1SG16EE012	ARPITHA G	1	2	3	4	5	6	7	8	9	10	11
12	1SG16EE013	ARPITHA P	1	2	3	4	5	6	7	8	9	10	11
13	1SG16EE014	ASHFAQUE AHMED	1	2	3	4	5	6	7	8	9	10	11
14	1SG16EE015	ASHWINI V	1	A	2	3	4	5	6	7	8	9	10
15	1SG16EE016	BHANU PRATAP YADAV	1	2	3	4	5	6	7	8	9	10	11
16	1SG16EE017	BHAVYA M	1	2	3	4	5	6	7	8	9	10	11
17	1SG16EE018	BHOOMIKA VASANTH	1	2	3	4	A	5	6	7	8	A	9
18	1SG16EE019	BI BI AYESHA S	1	2	3	4	5	6	7	8	9	10	10
19	1SG16EE020	CHANDAN S R	1	2	3	4	5	6	7	8	9	10	11
20	1SG16EE022	CHIDANANDA C	1	2	3	4	5	6	7	8	9	10	11
21	1SG16EE023	CHIRAG S	1	2	3	4	5	6	7	8	9	A	9
22	1SG16EE024	DEEPA T S	A	1	2	3	4	A	5	6	7	8	9
23	1SG16EE025	DHANUSH S	1	2	3	4	5	6	7	8	9	10	11
24	1SG16EE026	DIXITH R	1	2	3	4	5	6	7	8	9	10	11
25	1SG16EE027	FAIZA FATHIMA A	1	2	3	4	5	6	7	8	9	10	11
26	1SG16EE028	Fery Ahmed M	1	2	A	3	4	5	A	6	7	8	9
27	1SG16EE029	GAGAN H J	1	2	3	4	5	6	7	8	9	10	11
28	1SG16EE030	GAGAN KUMAR GANDHI K	1	2	3	4	5	6	7	8	9	A	11

Sl. No	USN	Student Name	27-01-2017		28-01-2017		30-01-2017		31-01-2017		01-02-2017		
			MS	AS	MS	AS	MS	AS	MS	AS	MS	AS	Test
29	13G16EE031	GAGANA R	1	2	3	4	5	6	7	8	9	10	11
30	1SG16EE032	GANAVI C A	1	2	A	3	4	5	6	7	8	9	10
31	1SG16EE033	GOUTHAMI K	1	2	3	4	5	6	7	A	8	9	10
32	1SG16EE034	HARSHITHA C GOWDA	1	2	3	4	5	6	7	8	9	10	11
33	1SG16EE035	HARSHITHA N	1	2	A	3	4	5	6	7	8	9	10
34	13G16EE036	HEMA S	1	2	3	4	5	A	6	7	8	9	10
35	1SG16EE037	JEEVAN KUMAR R	1	2	3	4	5	6	A	7	8	9	10
36	1SG16EE038	JYOTHI GADED	1	2	3	4	5	6	7	8	9	10	11
37	1SG16EE039	K KARTHIK DUBEY	A	1	2	3	4	5	6	7	8	9	10
38	1SG16EE040	KALA N	1	2	3	4	A	5	6	7	8	9	10
39	1SG16EE041	KARISHMA JAISWAL	1	2	3	4	5	6	7	A	8	9	10
40	1SG13EE042	KAVYA B P	1	2	3	4	5	6	7	8	9	10	11
41	1SG16EE043	KAVYA SHREE R	1	2	A	3	4	5	6	7	8	9	10
42	1SG16EE044	KAVYASHREE S	1	2	3	4	5	6	7	8	9	10	11
43	1SG16EE045	KIRAN KUMAR	1	2	3	4	5	6	7	8	A	9	10
44	1SG16EE046	KUSHAL M P	1	2	3	4	5	6	7	8	9	10	11
45	1SG13EE047	KUSUMA H	1	2	A	3	4	A	5	6	7	8	9
46	1SG16EE048	M MONICA	1	2	3	4	5	6	7	8	9	10	11
47	1SG16EE049	MADHUKAR K	1	2	3	4	5	6	7	8	9	10	11
48	1SG16EE051	MALATHI R	1	2	3	4	5	6	7	8	9	10	11
49	1SG16EE053	MANJUNATH T	1	2	3	4	5	6	7	8	A	9	10
50	1SG16EE054	MONIKA N	1	2	3	4	5	6	7	8	9	10	11
51	1SG16EE055	MOUNA M	1	2	3	4	5	6	7	8	9	10	11
52	1SG16EE057	NANDA KUMAR J	1	2	A	3	4	5	6	7	8	9	10
53	1SG16EE058	NEHA TOMAR	1	2	3	4	5	6	7	8	9	10	11
54	1SG16EE059	NIKHIL NINGOUDA PATIL	1	2	3	4	5	6	7	8	A	9	10
55	1SG16EE030	NIKHIL TOMAR	1	2	3	4	5	6	7	8	9	10	11
56	1SG16EE061	NIKITHA K	1	2	3	4	5	6	7	8	9	10	10
57	1SG16EE062	NIRANJAN K B	1	2	3	4	5	6	7	8	9	10	11
58	1SG16EE063	NIROSHA H V	1	2	3	A	4	5	6	7	8	9	10
59	1SG16EE064	NISHANTH M G	1	2	3	4	5	6	7	8	9	10	11

Sl. No	USN	Student Name	27-01-2017		28-01-2017		30-01-2017		31-01-2017		01-02-2017		
			MS	AS	MS	AS	MS	AS	MS	AS	MS	AS	Test
60	1SG16EE065	PAVITHRA G	1	2	3	4	5	6	7	8	9	10	11
61	1SG16EE066	PAVITHRA R	1	A	2	3	4	5	6	7	8	9	10
62	1SG16EE067	POOVAIAH M K	1	2	3	4	5	6	7	A	8	9	10
63	1SG16EE068	PRAJWAL S	1	2	3	4	5	6	7	8	9	10	11
64	1SG16EE069	PRAKRUTHI JAIN Y S	1	2	A	3	4	5	6	7	8	9	10
65	1SG16EE070	PRASHANTH NAYAKA T	1	2	3	4	5	6	7	8	9	10	11
66	1SG16EE071	PRAVEEN J	1	2	3	4	5	6	7	A	8	9	10
67	1SG16EE072	PUNEETH N	1	2	3	4	5	6	7	8	9	10	11
68	1SG16EE073	RAJESH YADAV	1	2	A	3	4	5	6	7	8	9	10
69	1SG16EE074	RAKESH G	1	2	3	4	5	6	7	8	9	10	11
70	1SG16EE075	REVAN KUMAR G K	1	2	3	4	5	A	6	7	8	9	10
71	1SG16EE078	S MANISH	1	2	3	4	5	6	7	8	9	10	11
72	1SG16EE079	SANGMESH	1	A	2	3	4	5	6	7	A	8	9
73	1SG16EE081	SANTOSH KUMAR K S	1	2	3	4	5	6	7	8	9	10	11
74	1SG16EE082	SANTOSH S G	1	2	3	4	5	6	7	8	9	10	11
75	1SG16EE083	SATYENDRA KUMAR YADAV	1	2	3	A	4	5	6	7	8	9	10
76	1SG16EE098	SUSHMA G R	1	2	3	4	5	6	7	8	9	10	11
77	1SG16EE099	SWATHI B	1	2	3	4	5	6	7	8	9	10	11
78	1SG16EE100	VANDANA M	1	2	3	4	5	A	6	7	8	A	A
79	1SG16EE101	VANDANA RAO J	1	2	3	4	5	6	7	8	9	10	11
80	1SG16EE098	SUSHMA G R	1	2	3	4	5	6	7	8	9	10	11
Signature													


(A. Dhamodaran)
PROGRAM COORDINATOR


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Sapthagiri College of Engineering

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

Department of Electrical & Electronics Engineering

5 days Certification Course on

"HYBRID ELECTRIC VEHICLE"

Test Time Table

Sl. No.	DATE	DAY	TIMINGS
1	01-02-2017	Wednesday	4.30PM-5.30PM



HOD EEE

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

5 days Certification Course on

"HYBRID ELECTRIC VEHICLE"

Question Paper

Duration: 1hr

Maximum marks: 20

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

Answer all the Questions:

Question 1

Which vehicle has the smallest number of principle components?

- a) Traditional vehicle
- b) Hybrid vehicle
- c) Electric vehicle

Question 2

What purpose does a generator serve in a hybrid vehicle?

- a) It converts nuclear energy into more nuclear energy
- b) It converts mechanical energy into electrical energy.
- c) It converts chemical energy into electrical energy.
- d) It converts electrical energy into mechanical energy

Question 3

What are the two main types of hybrid vehicle?

- a) The series hybrid vehicle and the mild hybrid vehicle.
- b) The parallel hybrid vehicle and the full hybrid vehicle.
- c) The series hybrid vehicle and the parallel hybrid vehicle.
- d) The full hybrid vehicle and the empty hybrid vehicle.

Question 4

Which sentence best describes a parallel hybrid vehicle?

- a) The engine is directly connected to the transmission.
- b) The electric motor is directly connected to the transmission.
- c) Both of the above.
- d) None of the above.

Question 5

Which of these is a purpose of the power-split device?

- a) To split electrical energy into mechanical energy
- b) To allow both the engine and electric motor to propel the vehicle.
- c) To recharge the battery while braking.
- d) To recharge the brakes while driving.

Question 6

"In this system, the engine is used to supply electrical power to the motor, which then turns the wheels"

Select the type of Hybrid System according to above description.

- a) Series Hybrid
- b) Parallel Hybrid
- c) Plug-in Hybrid
- d) Series-parallel Hybrid

Question 7

which of the following is NOT the type of Hybrid Vehicle?

- a) Plug-in Hybrid
- b) Parallel Hybrid
- c) Natural Gas For Vehicles
- d) Series Hybrid

Question 8

The Hybrid Electric Vehicle consists of :

- a) Internal Combustion Engine + Electric Motor
- b) Motor Electric 1 + Motor electric 2
- c) NGV engine + Gasoline engine

Question 9

"In this system, the engine is used to supply electrical power to the motor, which then turns the wheels"

Select the type of Hybrid System according to above description.

- a) Series Hybrid
- b) Parallel Hybrid
- c) Plug-in Hybrid
- d) Series-parallel Hybrid

Question 10

"The wheels are driven by both the engine and the motor"

Select the type of Hybrid System according to above description.

- a) Series Hybrid
- b) Parallel Hybrid
- c) Plug-in Hybrid
- d) Series-parallel Hybrid

Question 11

Select the features of Hybrid Electric Vehicles

- a) Idle Stop
- b) EV Drive
- c) Motor Assist
- d) All

Question 12

The electric motor in a hybrid car can also act as :

- a) cooling fan
- b) fuel pump
- c) generator

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Question 13

Regenerative braking involves :

- a) Nano fibers that repair the surface of brake pads
- b) reducing the amount of friction necessary to slow a car
- c) reclaiming heat from the brakes and using it for power

Question 14

The benefits of a hybrid car include :

- a) reducing emissions
- b) improving gas mileage
- c) high fuel consumption
- d) high speed driving

Question 15

A _____ is a vehicle that can run on just the engine, just the batteries, or a combination of the two.

- a) Mild Hybrid
- b) Full Hybrid
- c) Fuel Cell
- d) Assist Hybrid

Question 16

A Toyota Prius C Hybrid has _____ engine.

- a) 1
- b) 2
- c) half
- d) no

Question 17

Select the cycle use in a Hybrid Engine.

- a) Otto
- b) Diesel
- c) Atkinson
- d) Isentropic

Question 18

Select the WRONG statement.

- a) Toyota produced the Insight Hybrid
- b) Hybrid systems rely on very high voltages.
- c) All of the high-voltage cables are covered in orange sleeves for easy identification.
- d) To test high-voltage systems you need a Category 3 (CAT III) digital volt ohmmeter

Question 19

Select the CORRECT statement about Integrated Motor Assist (IMA) hybrid system

- a) Produced by Honda
- b) This system is the basis for many series-parallel hybrid vehicles.
- c) This system is capable of instantaneously switching from one power source to another or combining the two.


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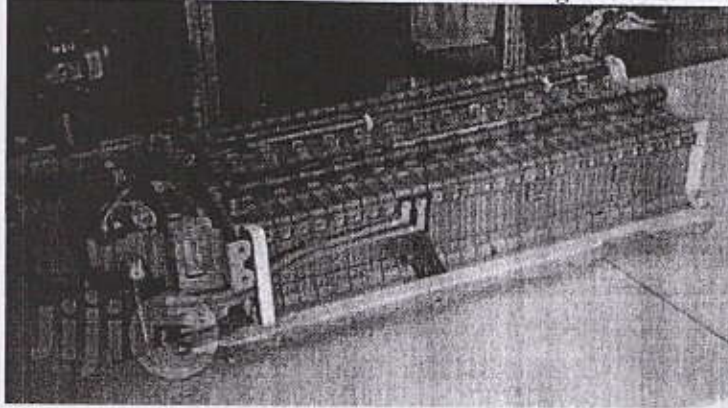
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Question 20

Select the **CORRECT** statement for the image shown.



- a) Inverter and converter unit
- b) High voltage cable
- c) High voltage battery
- d) Motor Generator

Approved by Academic Committee Members & HOD

Sl No.	Faculty Name	Designation	Signature
1	Er. K N Ravi	HOD	<i>[Signature]</i>
2	Prof. Rekha S N	Associate Professor	<i>[Signature]</i>
3	Prof. Dhamodaran A	Assistant Professor	<i>[Signature]</i>
4	Prof. Ramya M	Assistant Professor	<i>[Signature]</i>
5	Prof. Yousuf Madar	Assistant Professor	<i>[Signature]</i>
6	Prof. Hansi K	Assistant Professor	<i>[Signature]</i>
7	Mr. Jaya Kumar	Guest Speaker	<i>[Signature]</i>

[Signature]
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[Signature]
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5 days Certification Course on
"HYBRID ELECTRIC VEHICLE"
Solutions for the Questions

Duration: 1hr

Maximum marks: 20

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

1. Option C
2. Option B
3. Option C
4. Option C
5. Option C
6. Option B
7. Option C
8. Option A
9. Option A
10. Option B
11. Option D
12. Option C
13. Option C
14. Option A & B
15. Option B
16. Option A
17. Option C
18. Option A
19. Option A
20. Option C

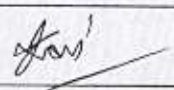


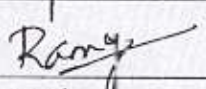

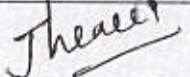
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Department of Electrical & Electronics Engineering

Approved by Academic Committee Members & HOD

SI No.	Faculty Name	Designation	Signature
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2	Prof. Rekha S N	Associate Professor	
3	Prof. Dhamodaran A	Assistant Professor	
4	Prof. Ramya M	Assistant Professor	
5	Prof. Yousuf Madar	Assistant Professor	
6	Prof. Jhansi K	Assistant Professor	



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5 days Certification Course on "HYBRID ELECTRIC VEHICLE"

Participant Feedback

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

It was good, all topics explained
So well, I understood less in Hands-on session.

Student Name :

Arun Kumar P

Student Signature:

Arun Kumar

5 days Certification Course on "HYBRID ELECTRIC VEHICLE"

Participant Feedback

1. How was the overall organization of the Certification Course ?
a) Poor b) Satisfactory c) Good d) Excellent
2. How appropriate were the facilities provided ?
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6. How do you rate the Certification Course compared to other workshops that you have attended ?
a) Poor b) Satisfactory c) Good d) Excellent
7. Generally how was your overall experience during the Certification Course
a) Poor b) Satisfactory c) Good d) Excellent

8. Any Suggestions:

Test conduction was nice.
It was nice & explained very well
all the topics as per schedule in the
course hybrid electric vehicle.

Student Name : Sumanth S

Sumanth S
Student Signature:

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5 days Certification Course on "HYBRID ELECTRIC VEHICLE"

Participant Feedback

1. How was the overall organization of the Certification Course ?
a) Poor b) Satisfactory c) ~~Good~~ d) Excellent
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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:

Conducting Test at the end of the course
& issue certificate was nice. All topic explained
very well as per schedule.

Student Name : Nandeesh K S

Munish Kumar
Student Signature:

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Certificate

This is to certify that Mr. /Ms _____
of _____ has participated
and successfully completed Five days Certification Course on ***"HYBRID ELECTRIC
VEHICLE"*** from 27th Jan, 2017 to 1st Feb, 2017 organized by the Department of
Electrical & Electronics Engineering, Sapthagiri College of Engineering.

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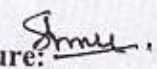
5 days Certification Course on "HYBRID ELECTRIC VEHICLE"

Participant Feedback

1. How was the overall organization of the Certification Course ?
a) Poor b) Satisfactory c) Good d) ☒ Excellent
2. How appropriate were the facilities provided ?
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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:

No Suggestion, certificate program was good.
We need such courses regularly in each semester.

Student Name : Shanu

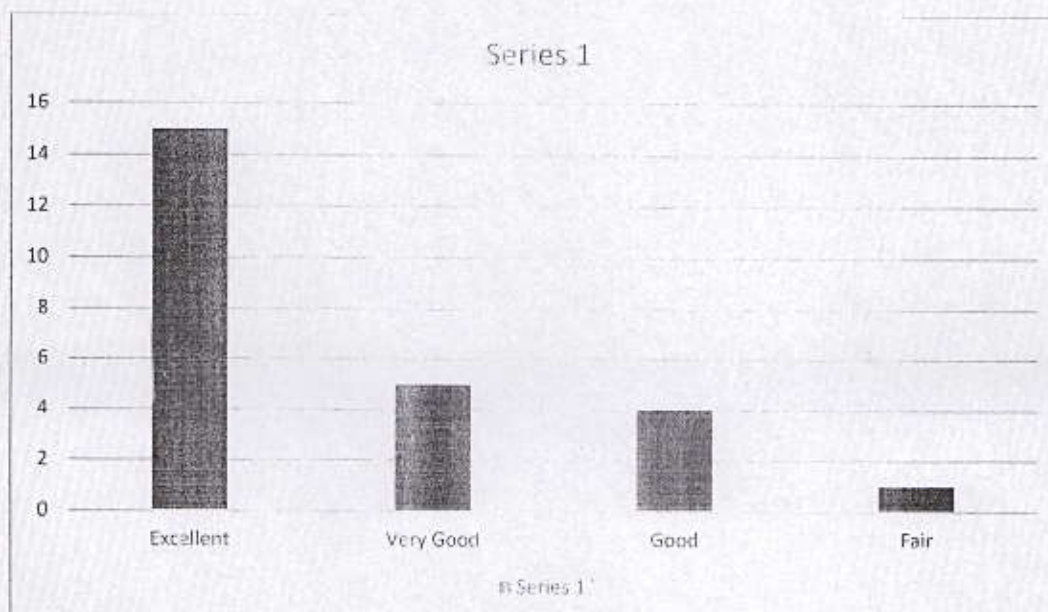
Student Signature: 


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FEEDBACK ANALYSIS

Certification Programme "HYBRID ELECTRIC VEHICLE"

No. of students participated	Student Feedback			
	Excellent	Very Good	Good	Average
160	70	20	5	5

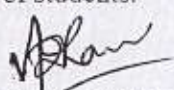


Action Report:

70 % of students were completely happy with the certification program and 20 % of students felt it was a good program remaining 5 % students were satisfied with the program and remaining 5 % students were average with the program.

Action Taken:

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


Program Coordinator


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Certificate

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of EEE has participated
and successfully completed Five days Certification Course on ***"HYBRID ELECTRIC
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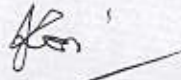


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Certificate

This is to certify that Mr./Ms VINUTHA D 18915EE096
of EEE has participated
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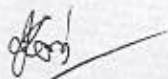


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PRINCIPAL

Certificate Course Report

Department of EEE conducted Certificate Course on: "Hybrid Electrical Vehicle"

Guest Speaker: Mr JayaKumar, Retired Jointed Director, CPRI, Bangalore-560012.

Duration of the course was for five days from Jan 27th 2017 to Feb 1st 2017.

Course detail:

Objective of the Course: Smart Hybrid is an advanced technology that helps increase fuel efficiency and enhances driving performance. The engine automatically stops when idle and silently starts when the optimal conditions are met in manual and automatic transmissions. It comes with a dual battery setup including a Lithium Ion Battery. These high capacity batteries store the energy generated during braking to assist the engine's idle start-stop and the torque assist functions. The energy stored in the Lithium-ion battery assists during acceleration which helps engine in providing optimal acceleration and performance.

The torque assist function supplements the engine's power during acceleration which reduces the load on engine and the brake energy regeneration function captures the energy lost during braking and deceleration of vehicle, eventually improving the engine life & performance. Modern HEVs make use of efficiency-improving technologies such as regenerative brakes which convert the vehicle's kinetic energy to electric energy, which is stored in a battery or super capacitor. Some varieties of HEV use an internal combustion engine to turn an electrical generator, which either recharges the vehicle's batteries or directly powers its electric drive motors; this combination is known as a motor-generator. Many HEVs reduce idle emissions by shutting down the engine at idle and restarting it when needed; this is known as a start-stop system.

Schedule of Certification Course

Dates	SESSION 1 (9.00am-10.30am)	SESSION 2 (11.00am-12.30pm)	SESSION 3 (1.30pm-4.30pm)
27-01-2017 Friday	Micro grid with RE	Modelling of wind and solar	Hands on Modelling of wind and solar
28-01-2017 Saturday	EV and ES in India overview.	Electric storage system	Hands On Electric storage system
30-01-2017 Monday	Modeling of battery storage system.	Modeling of battery storage system	Hands on Battery designing.
31-01-2017 Tuesday	Modelling of EV charging system.	Modelling of EV charging system.	Hands on Micro grid with EV and storage
01-02-2017 Wednesday	IoT and data analytics in RE, EV and ES system	IoT and data analytics in RE, EV and ES system	Hand on session RE, EV and ES system, Test and Certificate issue and validation

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Department of Electrical & Electronics Engineering

Conclusion: Certificate course made them comfortable with practical knowledge. Learning style adopted by students, which eventually is developed into a skill of their forte. Through this course, an ecstatic learning background paved way to a 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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