

SYLLABUS/
CURRICULUM



PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

(Approved by AICTE & Affiliated to Anna University, Chennai)

Madurai - Sivagangai Highway, Arasanoor, Thirumansolai Post, Sivagangai Dt. - 630 561, Tamilnadu
Mobile : 9842102628, 7373002628 Email: info@psyec.edu.in Website : www.psyec.edu.in

City Office : 10, Pandian Saraswathi St, Sivagami Nagar, Nerayanapuram, Madurai - 625 014. Telefax- 0452 2682338, Mobile : 98423-02628

Department of Electrical And Electronics Engineering

Academic Year 2018-2019

OBJECTIVE OF THE COURSE

- Understand Fundamental Concepts
- Familiarize with Standards and Regulations
- Develop Testing Skills for Transformers
- Acquire Knowledge in Testing Motors and Generators
- Master Testing Techniques for Circuit Breakers and Switchgear

CHAPTER 1: Introduction to Electrical Testing-Overview of electrical apparatus testing-Importance of testing in ensuring safety and reliability-Types of electrical apparatus and their applications- Standards and Regulations-National and international standards (IEEE, IEC, ANSI)-Testing protocols and procedures-Compliance and certification processes

CHAPTER 2: Testing of Transformers-Transformer types and construction-Routine tests: Insulation resistance, turns ratio, and polarity tests-Type tests: Temperature rise, short-circuit, and lightning impulse tests- Testing of Electric Motors and Generators-Motor and generator types and principles of operation-No-load and full-load tests-Efficiency and performance tests-Vibration and noise level tests

CHAPTER 3: Testing of Circuit Breakers and Switchgear-Types of circuit breakers and switchgear-Mechanical and electrical endurance tests-Short-circuit tests and dielectric tests-Contact resistance and timing tests

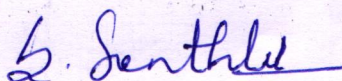
CHAPTER 4: Testing of Cables and Insulators-Types of cables and insulation materials-High-voltage testing methods: AC, DC, and impulse tests-Partial discharge testing-Mechanical testing of insulators

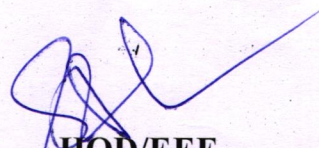
CHAPTER 5: Testing of Protective Relays-Principles of operation of protective relays-Relay calibration and settings-Functional and stability tests-Coordination and sensitivity analysis

OUTCOMES:

- Equip students with the knowledge and skills required for professional roles in electrical testing and maintenance.
- Encourage continuous learning and staying updated with technological advancements and industry standards.

Total: 35 hours


Course Coordinator


HOD/EEE


PRINCIPAL



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Department of Electrical And Electronics Engineering

Academic Year 2018-2019

VACEE1819TEA - Testing of Electrical Apparatus

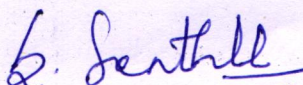
Course Schedule

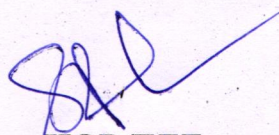
Date	Time	TOPICS
07/01/2019	9.00 am to 12.30 pm	Introduction to Electrical Testing -Overview of electrical apparatus testing-Importance of testing in ensuring safety and reliability-Types of electrical apparatus and their applications- Standards and Regulations-National and international standards (IEEE, IEC, ANSI)-Testing protocols and procedures-Compliance and certification processes
	1.00 pm to 5.00 pm	
08/01/2019	9.00 am to 12.30 pm	Testing of Transformers -Transformer types and construction-Routine tests: Insulation resistance, turns ratio, and polarity tests-Type tests: Temperature rise, short-circuit, and lightning impulse tests- Testing of Electric Motors and Generators-Motor and generator types and principles of operation-No-load and full-load tests-Efficiency and performance tests-Vibration and noise level tests
	1.00 pm to 5.00 pm	
09/01/2019	9.00 am to 12.30 pm	Testing of Circuit Breakers and Switchgear -Types of circuit breakers and switchgear-Mechanical and electrical endurance tests-Short-circuit tests and dielectric tests-Contact resistance and timing tests
	1.00 pm to 5.00 pm	
10/01/2019	9.00 am to 12.30 pm	Testing of Cables and Insulators -Types of cables and insulation materials-High-voltage testing methods: AC, DC, and impulse tests-Partial discharge testing-Mechanical testing of insulators
	1.00 pm to 5.00 pm	
11/01/2019	9.00 am to 12.30 pm	Testing of Protective Relays -Principles of operation of protective relays-Relay calibration and settings-Functional and stability tests-Coordination and sensitivity analysis
	1.00 pm to 5.00 pm	

Total Hours 35

Tea Break : 10:40 am to 10:55am & 02:45 pm to 15:00 pm

Lunch Break : 12:30pm to 01:00pm


Course Coordinator


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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Academic Year 2018-2019

One page Report

Name of the course : **Testing of Electrical Apparatus**
Development Course Code : **VACEE1819TEA**
Course Coordinator : **Mr.S. Senthilkumar**
Date/Duration : 02.06.20-06.06.20— 35 hours

I here affirm that the Final Year students of strength 18 have been taught the value-added course title “**Testing of Electrical Apparatus**” as per the syllabus and completed within the stipulated time duration.

I confirm that the value-added course titled “**Testing of Electrical Apparatus**” has been conducted in the beginning of the semester and course delivery along with the attendance of the students was recorded.

I confirmed that all the students were actively participated in the course and the eligible students were certified for the course.

Mr.S. Senthilkumar,

AP/EEE

Course Co-Ordinator

Mrs.S.Pandimeena,

AP/EEE

Head of the Department

Principal

Dr. R. RAJA M.E., Ph.D.,
PRINCIPAL
PANDIAN SARASWATHI YADAV
ENGINEERING COLLEGE
Arasanoor, Thirumansolai P.O-630 56
Sivagangai Dist, Tamil Nadu

ASSESSMENT PROCEDURE



PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

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Department of Electrical And Electronics Engineering

Academic Year 2018-2019

VACEE1819TEA - Testing of Electrical Apparatus

Assessment Questions with Answer

1. What is the primary purpose of testing electrical apparatus?

- a) To increase power consumption
- b) To ensure performance, safety, and reliability
- c) To reduce the lifespan of equipment
- d) To enhance the aesthetic appearance

Answer: b) To ensure performance, safety, and reliability

2. Which of the following standards is commonly used for testing electrical equipment?

- a) ASTM
- b) IEEE
- c) FDA
- d) ISO

Answer: b) IEEE

3. Which test is performed to measure the insulation resistance of a transformer?

- a) Short-circuit test
- b) Polarity test
- c) Insulation resistance test
- d) Turns ratio test

Answer: c) Insulation resistance test

4. In motor testing, what does a no-load test measure?

- a) The motor's efficiency under load
- b) The motor's power factor at full load
- c) The motor's performance without any mechanical load
- d) The motor's short-circuit current

Answer: c) The motor's performance without any mechanical load

5. Which instrument is typically used for high-voltage testing of cables?

- a) Multimeter
- b) Insulation resistance tester

- c) Hipot tester
- d) Oscilloscope

Answer: c) Hipot tester

6. What type of test is used to determine the short-circuit withstand capability of a circuit breaker?

- a) Dielectric test
- b) Mechanical endurance test
- c) Short-circuit test
- d) Timing test

Answer: c) Short-circuit test

7. Which of the following tests is NOT typically performed on protective relays?

- a) Functional test
- b) Stability test
- c) Relay calibration
- d) Insulation resistance test

Answer: d) Insulation resistance test

8. During the environmental testing of electrical equipment, which condition is NOT typically simulated?

- a) Temperature extremes
- b) Humidity variations
- c) Mechanical vibrations
- d) Radioactive exposure

Answer: d) Radioactive exposure

9. What is the main goal of accelerated life testing?

- a) To reduce testing time by increasing the severity of conditions
- b) To test equipment under normal operating conditions
- c) To decrease the lifespan of equipment
- d) To improve the aesthetic appearance of equipment

Answer: a) To reduce testing time by increasing the severity of conditions

10. Which parameter is NOT typically measured during a transformer short-circuit test?

- a) Short-circuit impedance
- b) Short-circuit loss
- c) Insulation resistance
- d) Voltage drop

Answer: c) Insulation resistance



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Department of Electrical And Electronics Engineering

Academic Year 2018-2019

VACEE1819TEA - Testing of Electrical Apparatus

Assessment Test Paper

REGISTER NUMBER: 912015195802

NAME OF THE STUDENT: Arabakatan.R.

8
10

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a) To increase power consumption
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c) To reduce the lifespan of equipment
d) To enhance the aesthetic appearance
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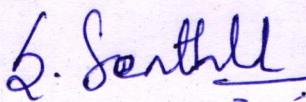
Academic Year 2018-2019

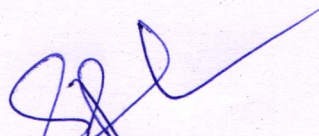
VACEE1819TEA - Testing of Electrical Apparatus

ASSESSMENT MODE

In order to get a certificate for this course, the students should satisfy the following constraints

Attendance	: 75 %
Assessment Question	: MCQ pattern
Assessment Mark	: Greater than or equal to 50%


Course Coordinator


HOD/EEE


PRINCIPAL

Pandian Saraswathi yadav Engineering College, Arasanoor -630561

Department of Electrical and Electronics Engineering

Student Performance Sheet

Academic Year : 2018-2019

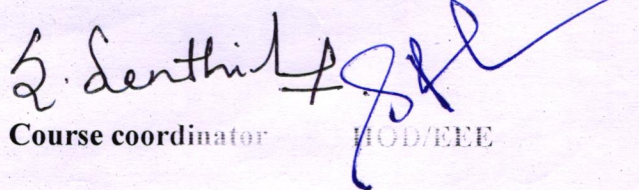
Course Code : VACEE1819TEA

Course Name : Testing of Electrical Apparatus

Duration of hours : 95

Period of Course : 7.1.2019-11.1.2019

Assessment Mark.			Marks
Sl. No	Register Number	Student Name	
1	912015105001	ARUNP	75
2	912015105003	CHITHUVIJAYAM M	85
3	912015105004	DINESHRAJAN S	86
4	912015105005	KALIDASS M	84
5	912015105006	KANNAN B.	94
6	912015105007	MAHENDRAN R	93
7	912015105009	MARSELINA	92
8	912015105010	MUTHU RAJAN	85
9	912015105011	NALLAMANIT	86
10	912015105012	NATHIYAS	87
11	912015105013	PANDI RAJA P	88
12	912015105014	PASUPATHIK	85
13	912015105015	RUTHPAN S	84
14	912015105017	SAHITYA PRIYAT	83
15	912015105018	THANDUS PRABHU J	82
16	912015105301	KARUPPAIAHB	81
17	912015105303	PRABAKARAN R	80
18	912015105304	PURUSOTHAMAN R	82


Course coordinator

HOD/EEE


PRINCIPAL

STUDENTS ATTENDANCE

Student Attendance Sheet

Academic Year : 2018-2019

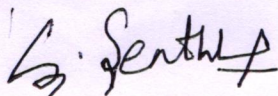
Course Code : VACEE1819TEA

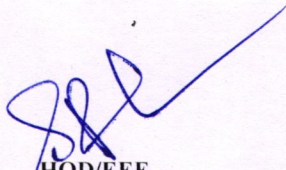
Course Name : Testing of Electrical Apparatus

Duration of hours : 35

Period of Course : 7.1.2019-11.1.2019

Attendance Sheet			Date:					
Sl. No	Register Number	Student Name	09.00 am - 10.00 am	10.00 am - 11.00 am	11.15 am - 12.15pm	01.00 pm - 02.00 pm	02.00 pm - 03.00 pm	03.15 pm - 04.15 pm
1	912015105001	ARUN P	P. Arun	P. Arun	P. Arun	P. Arun	P. Arun	P. Arun
2	912015105003	CHITHU VIJAYAN M	M. Chithu	M. Chithu	M. Chithu	M. Chithu	M. Chithu	M. Chithu
3	912015105004	DINESH RAJAN S	S. Dinesh	S. Dinesh	S. Dinesh	S. Dinesh	S. Dinesh	S. Dinesh
4	912015105005	KALIDASS M	M. Kalidass	M. Kalidass	M. Kalidass	M. Kalidass	M. Kalidass	M. Kalidass
5	912015105006	KANNAN B	B. Kannan	B. Kannan	B. Kannan	B. Kannan	B. Kannan	B. Kannan
6	912015105007	MAHENDRAN R	R. Mahendran	R. Mahendran	R. Mahendran	R. Mahendran	R. Mahendran	R. Mahendran
7	912015105009	MARSLIN A	A. Marslin	A. Marslin	A. Marslin	A. Marslin	A. Marslin	A. Marslin
8	912015105010	MUTHU RAJA N	N. Muthu Raja	N. Muthu Raja	N. Muthu Raja	N. Muthu Raja	N. Muthu Raja	N. Muthu Raja
9	912015105011	NALLAMANI T	T. Nallamani	T. Nallamani	T. Nallamani	T. Nallamani	T. Nallamani	T. Nallamani
10	912015105012	NATHIYA S	S. Nathiya	S. Nathiya	S. Nathiya	S. Nathiya	S. Nathiya	S. Nathiya
11	912015105013	PANDI RAJA P	P. Pandi Raja	P. Pandi Raja	P. Pandi Raja	P. Pandi Raja	P. Pandi Raja	P. Pandi Raja
12	912015105014	PASUPATHI K	K. Pasupathi	K. Pasupathi	K. Pasupathi	K. Pasupathi	K. Pasupathi	K. Pasupathi
13	912015105015	RUTHRAN S	S. Ruthran	S. Ruthran	S. Ruthran	S. Ruthran	S. Ruthran	S. Ruthran
14	912015105017	SATHYA PRIYA T	T. Sathya Priya	T. Sathya Priya	T. Sathya Priya	T. Sathya Priya	T. Sathya Priya	T. Sathya Priya
15	912015105018	THANDEES PRABHU J	J. Thandees Prabhu	J. Thandees Prabhu	J. Thandees Prabhu	J. Thandees Prabhu	J. Thandees Prabhu	J. Thandees Prabhu
16	912015105301	KARUPPAIAH B	B. Karuppaiah	B. Karuppaiah	B. Karuppaiah	B. Karuppaiah	B. Karuppaiah	B. Karuppaiah
17	912015105303	PRABAKARAN R	R. Prabakaran	R. Prabakaran	R. Prabakaran	R. Prabakaran	R. Prabakaran	R. Prabakaran
18	912015105304	PURUSOTHAMAN R	R. Purusothaman	R. Purusothaman	R. Purusothaman	R. Purusothaman	R. Purusothaman	R. Purusothaman


Course coordinator


HOD/EEE


PRINCIPAL

Student Attendance Sheet

Academic Year : 2018-2019

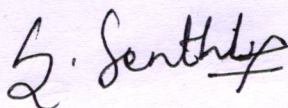
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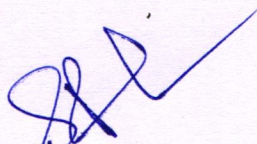
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Duration of hours : 35

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2	912015105003	CHITHU VIJAYAN M	M.V	M.V	M.V	M.V	M.V	M.V
3	912015105004	DINESH RAJAN S	S.D	S.D	S.D	S.D	S.D	S.D
4	912015105005	KALIDASS M	K.M	K.M	K.M	K.M	K.M	K.M
5	912015105006	KANNAN B	B.K	B.K	B.K	B.K	B.K	B.K
6	912015105007	MAHENDRAN R	M.R	M.R	M.R	M.R	M.R	M.R
7	912015105009	MARSLIN A	A.M	A.M	A.M	A.M	A.M	A.M
8	912015105010	MUTHU RAJA N	N.M	N.M	N.M	N.M	N.M	N.M
9	912015105011	NALLAMANI T	T.N	T.N	T.N	T.N	T.N	T.N
10	912015105012	NATHIYA S	S.N	S.N	S.N	S.N	S.N	S.N
11	912015105013	PANDI RAJA P	P.P	P.P	P.P	P.P	P.P	P.P
12	912015105014	PASUPATHI K	K.P	K.P	K.P	K.P	K.P	K.P
13	912015105015	RUTHRAN S	S.R	S.R	S.R	S.R	S.R	S.R
14	912015105017	SATHYA PRIYA T	T.S	T.S	T.S	T.S	T.S	T.S
15	912015105018	THANDEES PRABHU J	J.P	J.P	J.P	J.P	J.P	J.P
16	912015105301	KARUPPAIAH B	B.K	B.K	B.K	B.K	B.K	B.K
17	912015105303	PRABAKARAN R	R.P	R.P	R.P	R.P	R.P	R.P
18	912015105304	PURUSOTHAMAN R	R.P	R.P	R.P	R.P	R.P	R.P


Course coordinator


HOD/EEE


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Student Attendance Sheet

Academic Year : 2018-2019

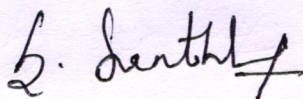
Course Code : VACEE1819TEA

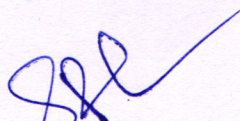
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3	912015105004	DINESH RAJAN S	S. Dinesh	S. Dinesh	S. Dinesh	S. Dinesh	S. Dinesh	S. Dinesh
4	912015105005	KALIDASS M	M. Kalidass	M. Kalidass	M. Kalidass	M. Kalidass	M. Kalidass	M. Kalidass
5	912015105006	KANNAN B	B. Kannan	B. Kannan	B. Kannan	B. Kannan	B. Kannan	B. Kannan
6	912015105007	MAHENDRAN R	R. Mahendran	R. Mahendran	R. Mahendran	R. Mahendran	R. Mahendran	R. Mahendran
7	912015105009	MARSLIN A	A. Marslin	A. Marslin	A. Marslin	A. Marslin	A. Marslin	A. Marslin
8	912015105010	MUTHU RAJA N	N. Muthu Raja	N. Muthu Raja	N. Muthu Raja	N. Muthu Raja	N. Muthu Raja	N. Muthu Raja
9	912015105011	NALLAMANI T	T. Nallamani	T. Nallamani	T. Nallamani	T. Nallamani	T. Nallamani	T. Nallamani
10	912015105012	NATHIYA S	S. Nathiya	S. Nathiya	S. Nathiya	S. Nathiya	S. Nathiya	S. Nathiya
11	912015105013	PANDI RAJA P	P. Pandi Raja	P. Pandi Raja	P. Pandi Raja	P. Pandi Raja	P. Pandi Raja	P. Pandi Raja
12	912015105014	PASUPATHI K	K. Pasupathi	K. Pasupathi	K. Pasupathi	K. Pasupathi	K. Pasupathi	K. Pasupathi
13	912015105015	RUTHRAN S	S. Ruthran	S. Ruthran	S. Ruthran	S. Ruthran	S. Ruthran	S. Ruthran
14	912015105017	SATHYA PRIYA T	T. Satya Priya	T. Satya Priya	T. Satya Priya	T. Satya Priya	T. Satya Priya	T. Satya Priya
15	912015105018	THANDEES PRABHU J	J. Thandees Prabhu	J. Thandees Prabhu	J. Thandees Prabhu	J. Thandees Prabhu	J. Thandees Prabhu	J. Thandees Prabhu
16	912015105301	KARUPPAIAH B	B. Karuppaiah	B. Karuppaiah	B. Karuppaiah	B. Karuppaiah	B. Karuppaiah	B. Karuppaiah
17	912015105303	PRABAKARAN R	R. Prabakaran	R. Prabakaran	R. Prabakaran	R. Prabakaran	R. Prabakaran	R. Prabakaran
18	912015105304	PURUSOTHAMAN R	R. Purusothaman	R. Purusothaman	R. Purusothaman	R. Purusothaman	R. Purusothaman	R. Purusothaman


Course coordinator


HOD/EEE


PRINCIPAL

Student Attendance Sheet

Academic Year : 2018-2019

Course Code : VACEE1819TEA

Course Name : Testing of Electrical Apparatus

Duration of hours : 35

Period of Course : 7.1.2019-11.1.2019

Attendance Sheet			Date:					
Sl. No	Register Number	Student Name	09.00 am - 10.00 am	10.00 am - 11.00 am	11.15 am - 12.15pm	01.00 pm - 02.00 pm	02.00 pm - 03.00 pm	03.15 pm - 04.15 pm
1	912015105001	ARUN P	P.A	P.A	P.A	P.A	P.A	P.A
2	912015105003	CHITHU VIJAYAN M	M.C	M.C	M.C	M.C	M.C	M.C
3	912015105004	DINESH RAJAN S	S.D	S.D	S.D	S.D	S.D	S.D
4	912015105005	KALIDASS M	K.M	K.M	K.M	K.M	K.M	K.M
5	912015105006	KANNAN B	B.K	B.K	B.K	B.K	B.K	B.K
6	912015105007	MAHENDRAN R	M.R	M.R	M.R	M.R	M.R	M.R
7	912015105009	MARSLIN A	A.A	A.A	A.A	A.A	A.A	A.A
8	912015105010	MUTHU RAJA N	M.R	M.R	M.R	M.R	M.R	M.R
9	912015105011	NALLAMANI T	T.N	T.N	T.N	T.N	T.N	T.N
10	912015105012	NATHIYA S	N.S	N.S	N.S	N.S	N.S	N.S
11	912015105013	PANDI RAJA P	P.R	P.R	P.R	P.R	P.R	P.R
12	912015105014	PASUPATHI K	K.P	K.P	K.P	K.P	K.P	K.P
13	912015105015	RUTHRAN S	R.S	R.S	R.S	R.S	R.S	R.S
14	912015105017	SATHYA PRIYA T	T.S	T.S	T.S	T.S	T.S	T.S
15	912015105018	THANDEES PRABHU J	J.P	J.P	J.P	J.P	J.P	J.P
16	912015105301	KARUPPAIAH B	B.K	B.K	B.K	B.K	B.K	B.K
17	912015105303	PRABAKARAN R	R.P	R.P	R.P	R.P	R.P	R.P
18	912015105304	PURUSOTHAMAN R	R.P	R.P	R.P	R.P	R.P	R.P

Senthil
Course coordinator

[Signature]
HOD/EEE

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PRINCIPAL

Student Attendance Sheet

Academic Year : 2018-2019

Course Code : VACEE1819TEA

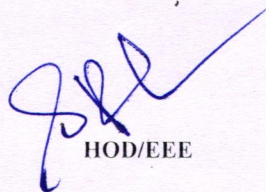
Course Name : Testing of Electrical Apparatus

Duration of hours : 35

Period of Course : 7.1.2019-11.1.2019

Attendance Sheet			Date:					
Sl. No	Register Number	Student Name	09.00 am - 10.00 am	10.00 am - 11.00 am	11.15 am - 12.15pm	01.00 pm - 02.00 pm	02.00 pm - 03.00 pm	03.15 pm - 04.15 pm
1	912015105001	ARUN P	P.A	P.A	P.A	P.A	P.A	P.A
2	912015105003	CHITHU VIJAYAN M	M.C	M.C	M.C	M.C	M.C	M.C
3	912015105004	DINESH RAJAN S	S.D	S.D	S.D	S.D	S.D	S.D
4	912015105005	KALIDASS M	Kalu	Kalu	Kalu	Kalu	Kalu	Kalu
5	912015105006	KANNAN B	B.K	B.K	B.K	B.K	B.K	B.K
6	912015105007	MAHENDRAN R	Maha	Maha	Maha	Maha	Maha	Maha
7	912015105009	MARSLIN A	A.M	A.M	A.M	A.M	A.M	A.M
8	912015105010	MUTHU RAJA N	Muthu	Muthu	Muthu	Muthu	Muthu	Muthu
9	912015105011	NALLAMANI T	N	N	N	N	N	N
10	912015105012	NATHIYA S	Nathi	Nathi	Nathi	Nathi	Nathi	Nathi
11	912015105013	PANDI RAJA P	Pandi	Pandi	Pandi	Pandi	Pandi	Pandi
12	912015105014	PASUPATHI K	K.P	K.P	K.P	K.P	K.P	K.P
13	912015105015	RUTHRAN S	Ruth	Ruth	Ruth	Ruth	Ruth	Ruth
14	912015105017	SATHYA PRIYA T	Sathya	Sathya	Sathya	Sathya	Sathya	Sathya
15	912015105018	THANDEES PRABHU J	Th	Th	Th	Th	Th	Th
16	912015105301	KARUPPAIAH B	Karu	Karu	Karu	Karu	Karu	Karu
17	912015105303	PRABAKARAN R	Praba	Praba	Praba	Praba	Praba	Praba
18	912015105304	PURUSOTHAMAN R	Puru	Puru	Puru	Puru	Puru	Puru


Course coordinator


HOD/EEE


PRINCIPAL

Enrollment
Student Name
List

Pandian Saraswathi yadav Engineering College, Arasanoor -630561

Department of Electrical and Electronics Engineering

Student Registration Sheet

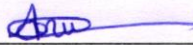


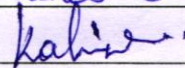
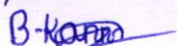
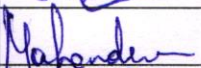
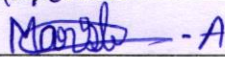

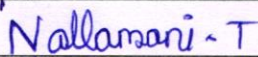
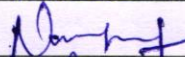
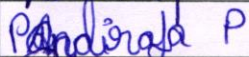
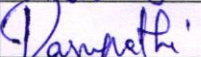
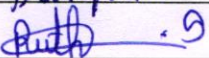
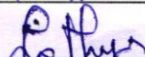
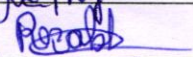

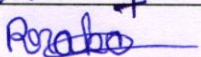

Academic Year : 2018-2019

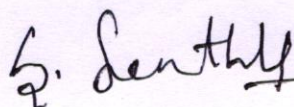
Course Code : VACEE1819TEA

Course Name : Testing of Electrical Apparatus

Duration of hours : 35

Period of Course : 7.1.2019-11.1.2019

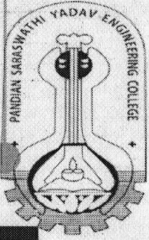
Enrolled student list			Signature
Sl. No	Register Number	Student Name	
1	912015105001	ARUN P	
2	912015105003	CHITHU VIJAYAN M	
3	912015105004	DINESH RAJAN S	
4	912015105005	KALIDASS M	
5	912015105006	KANNAN B	
6	912015105007	MAHENDRAN R	
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17	912015105303	PRABAKARAN R	
18	912015105304	PURUSOTHAMAN R	


Course coordinator


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MODEL
CERTIFICATES



PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

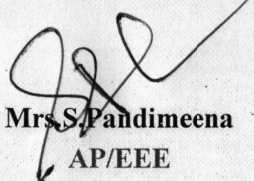
Approved by AICTE & Affiliated to Anna University, Chennai.
Arasanoor, Thirumansolai Post, Sivagangai – Madurai Highway, Tamilnadu - 630 561

Value added course on Testing of Electrical Apparatus


Organized by
DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING

CERTIFICATE

This is Certify that RUTHRAN S From **Final year**
EEE has participated in the value-added course on Testing of Electrical Apparatus organized by the
Department of Electrical And Electronics Engineering From 07.01.2019 to 11.01.2019 (35 Hours) at
Pandian Saraswathi Yadav Engineering College, Sivagangai.

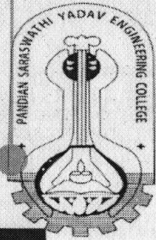

Mrs. S. Pandimeena
AP/EEE

Head of the Department


Dr. R. RAJA
Principal

R
RAJA

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by R RAJA
Date:
2024.07.16
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+05'30'



PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

Approved by AICTE & Affiliated to Anna University, Chennai.
Arasanoor, Thirumansolai Post, Sivagangai – Madurai Highway, Tamilnadu - 630 561

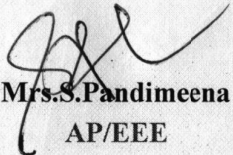
Value added course on Testing of Electrical Apparatus

Organized by


DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING

CERTIFICATE

This is Certify that KANNAN B From **Final year**
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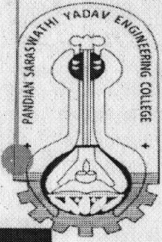

Mrs.S.Pandimeena
AP/EEE

Head of the Department


Dr.R.RAJA
Principal

R
RAJA

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by R RAJA
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PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

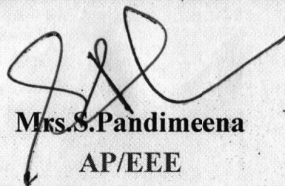
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Arasanoor, Thirumansolai Post, Sivagangai – Madurai Highway, Tamilnadu - 630 561

Value added course on Testing of Electrical Apparatus

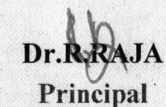
Organized by
DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING

CERTIFICATE

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EEE has participated in the value-added course on Testing of Electrical Apparatus organized by the
Department of Electrical And Electronics Engineering From 07.01.2019 to 11.01.2019. (35 Hours) at
Pandian Saraswathi Yadav Engineering College, Sivagangai.


Mrs. S. Pandimeena
AP/EEE

Head of the Department


Dr. R. RAJA
Principal

R
RAJA
Digitally signed
by R RAJA
Date:
2024.07.16
12:33:26 +05'30'