

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, Narayanapuram, Madurai - 625 014. Telefax- 0452 2682338, Mobile : 98423-02628

Department of Electrical And Electronics Engineering

Academic Year 2020-2021

OBJECTIVE OF THE COURSE

- Understand the basic principles and concepts of lighting and illumination.
- Learn about different types of lighting systems and their applications in industrial plants.
- Gain proficiency in using lighting design software and tools.
- Explore the design and implementation of energy-efficient lighting solutions.
- Analyze the impact of lighting on productivity, safety, and ergonomics in industrial settings.

CHAPTER 1: Introduction to Lighting and Illumination- Basic Principles of Lighting- Definition and importance of lighting-Units of measurement (lumens, lux, candela)-Color temperature and color rendering index (CRI)-**Week 2:** Light Sources and Technologies-Types of light sources (incandescent, fluorescent, LED, etc.)-Characteristics and applications of different light sources-Advances in lighting technology
Module 4: Energy-Efficient Lighting Solutions

CHAPTER 2: Fundamentals of Lighting Design-Key factors in lighting design (intensity, uniformity, glare)-Standards and guidelines (IESNA, CIBSE)-Calculating illuminance levels-Photometric Analysis and Tools-Introduction to photometric studies-Using photometric data in design-Hands-on session with photometric analysis tools

CHAPTER 3: Specific Requirements for Industrial Lighting-Task lighting vs. ambient lighting-Safety and compliance requirements-Case studies of industrial lighting projects-Lighting Design for Different Plant Areas-High-bay and low-bay lighting-Outdoor and security lighting-Emergency and exit lighting systems

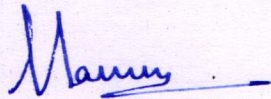
CHAPTER 4: Energy Efficiency in Lighting-Importance of energy-efficient lighting-Technologies and strategies for reducing energy consumption-Government regulations and incentives- Daylight Harvesting and Smart Lighting Systems-Principles of daylight harvesting-Design and implementation of smart lighting controls-Integration with building management systems (BMS)

CHAPTER 5: Regulations and Standards-Understanding industry-standards and regulations-Safety considerations in lighting installations-Compliance and best practices-Week 18: Project Management and Communication-Planning and executing lighting design projects-Effective communication with stakeholders-Documentation and reporting

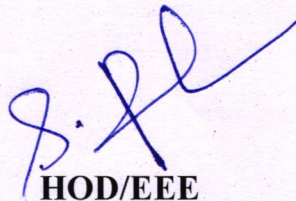
OUTCOMES:

- Work collaboratively in interdisciplinary teams to address complex challenges in plant lighting and illumination design.
- Promote sustainable practices in lighting design, focusing on energy efficiency and minimizing environmental impact.
- Explore the integration of renewable energy sources with plant lighting systems.

Total: 35 hours



Course Coordinator



HOD/EEE



PRINCIPAL



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**Department of Electrical And Electronics Engineering
Academic Year 2019-2020**

VACEE1920PLI- Plant Lightning and illumination Design Specialization

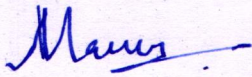
Course Schedule

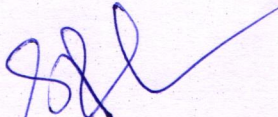
Date	Time	TOPICS
04/12/2019	9.00 am to 12.30 pm	Introduction to Lighting and Illumination- Basic Principles of Lighting-Definition and importance of lighting-Units of measurement (lumens, lux, candela)-Color temperature and color rendering index (CRI)- Light Sources and Technologies-Types of light sources (incandescent, fluorescent, LED, etc.)-Characteristics and applications of different light sources-Advances in lighting technology
	1.00 pm to 5.00 pm	
05/12/2019	9.00 am to 12.30 pm	Fundamentals of Lighting Design-Key factors in lighting design (intensity, uniformity, glare)-Standards and guidelines (IESNA, CIBSE)-Calculating illuminance levels- Photometric Analysis and Tools-Introduction to photometric studies-Using photometric data in design-Hands-on session with photometric analysis tools
	1.00 pm to 5.00 pm	
06/12/2019	9.00 am to 12.30 pm	Specific Requirements for Industrial Lighting-Task lighting vs. ambient lighting-Safety and compliance requirements-Case studies of industrial lighting projects- Lighting Design for Different Plant Areas-High-bay and low-bay lighting-Outdoor and security lighting-Emergency and exit lighting systems
	1.00 pm to 5.00 pm	
07/12/2019	9.00 am to 12.30 pm	Energy Efficiency in Lighting-Importance of energy-efficient lighting-Technologies and strategies for reducing energy consumption-Government regulations and incentives- Daylight Harvesting and Smart Lighting Systems-Principles of daylight harvesting-Design and implementation of smart lighting controls-Integration with building management systems (BMS)
	1.00 pm to 5.00 pm	
09/12/2019	9.00 am to 12.30 pm	Regulations and Standards-Understanding industry-standards and regulations-Safety considerations in lighting installations-Compliance and best practices-Week 18: Project Management and Communication-Planning and executing lighting design projects-Effective communication with stakeholders-Documentation and reporting
	1.00 pm to 5.00 pm	

Total Hours 35

Tea Break : 10:40 am to 10:55am & 02:45 pm to 13:00 pm

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


Course Coordinator


HOD/EEE


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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Academic Year 2019-2020

One page Report

Name of the course : **Plant Lightning and illumination Design Specialization**
Development Course Code : **VACEE1920PLI**
Course Coordinator : **Mrs. V NAVEEN**
Date/Duration : 04.12.19-09.12.2019— 35 hours

I here affirm that the Second Year students of strength 11 have been taught the value-added course title “**Plant Lightning and illumination Design Specialization**” as per the syllabus and completed within the stipulated time duration.

I confirm that the value-added course titled “**Plant Lightning and illumination Design Specialization**” 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.

Mrs. V Naveena,

AP/EEE

Course Co-Ordinator

Mrs.S.Pandimeena,

AP/EEE

Head of the Department

Dr.R.RAJA,

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 2019-2020

VACEE1920PLI- Plant Lightning and illumination Design Specialization

Assessment Questions with Answer

1. Which of the following light wavelengths is most effective for photosynthesis in plants?

- a) Green (500-570 nm)
- b) Red (620-750 nm)
- c) Yellow (570-590 nm)
- d) Blue (450-495 nm)

Answer: b) Red (620-750 nm) and d) Blue (450-495 nm)

2. What is the primary function of photoreceptors in plants?

- a) Absorbing nutrients
- b) Detecting light signals
- c) Transporting water
- d) Synthesizing proteins

Answer: b) Detecting light signals

3. Which type of lighting technology is known for its high energy efficiency and long lifespan?

- a) Incandescent
- b) Halogen
- c) LED
- d) Fluorescent

Answer: c) LED

4. What does the term "photoperiodism" refer to?

- a) The effect of temperature on plant growth
- b) The response of plants to the length of day and night
- c) The impact of soil pH on plant health
- d) The influence of humidity on plant development

Answer: b) The response of plants to the length of day and night

5. Which unit is commonly used to measure light intensity for plant growth?
- a) Joules
 - b) Watts
 - c) Lumens
 - d) Photosynthetic Photon Flux Density (PPFD)

Answer: d) Photosynthetic Photon Flux Density (PPFD)

6. What is the main disadvantage of using High-Intensity Discharge (HID) lamps for plant lighting?
- a) Low light output
 - b) Short lifespan
 - c) High heat generation
 - d) Poor color rendering

Answer: c) High heat generation

7. In the context of plant lighting, what does the term "DLI" stand for?
- a) Daily Light Interval
 - b) Daylight Light Index
 - c) Daily Light Integral
 - d) Direct Light Input

Answer: c) Daily Light Integral

8. Which lighting technique involves adjusting light levels based on plant needs and growth stages?
- a) Constant lighting
 - b) Adaptive lighting
 - c) Intermittent lighting
 - d) Directional lighting

Answer: b) Adaptive lighting

9. What is the purpose of using reflectors in plant lighting systems?
- a) To reduce energy consumption
 - b) To increase light intensity
 - c) To distribute light evenly
 - d) To change the light spectrum

Answer: c) To distribute light evenly

10. Which of the following is a benefit of using smart lighting systems in plant growth?
- a) Reduced initial costs
 - b) Simplified installation
 - c) Enhanced control and efficiency
 - d) Minimal maintenance requirements

Answer: c) Enhanced control and efficiency



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Department of Electrical And Electronics Engineering

Academic Year 2019-2020

VACEE1920PLI- Plant Lightning and illumination Design Specialization

Assessment Test Paper

REGISTER NUMBER: 912018105008

NAME OF THE STUDENT: K. Saranya

9
10

1. Which of the following light wavelengths is most effective for photosynthesis in plants?
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heat generation
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Pandian Saraswathi yadav Engineering College, Arasanoor -630561

Department of Electrical and Electronics Engineering

Student Performance Sheet

Academic Year : 2019-2020

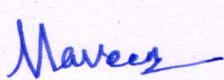
Course Code : VACEE1920PLI

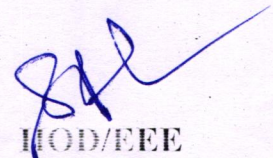
Course Name : Plant Lightning and illumination Design Specialization


Duration of hours : 35

Period of Course : 04.12.19-09.12.2019

Assessment Marks			Marks
Sl. No	Register Number	Student Name	
1	912018105001	S.ARUNKUMAR	75
2	912018105002	S.P.BUVANEESWARAN	85
3	912018105003	M.GOKULSARAVANA KUMAR	86
4	912018105004	S.JEEVA	87
5	912018105005	A.KAVINMATHI	88
6	912018105007	K.RAMADHARSHINI	89
7	912018105008	K.SARANYA	90
8	912018105009	R.SIVA RANJANA	93
9	912018105010	I.THAMIZHARASI	95
10	912018105011	M.VIJAYAKUMAR	94
11	912018105301	J.I.MANOJ RAJ	96


Course coordinator


HOD/EEE


PRINCIPAL

Pandian Saraswathi Yadav Engineering College, Arasanoor-630561

Department of Electrical And Electronics Engineering

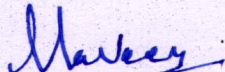
Academic Year 2019-2020

VACEE1920PLI- Plant Lightning and illumination Design Specialization

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

STUDENTS ATTENDANCE

Student Attendance Sheet

Academic Year : 2019-2020

Course Code : VACEE1920PLI

Course Name : Plant Lightning and illumination Design Specialization

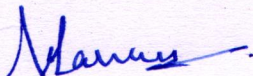
Duration of hours : 35

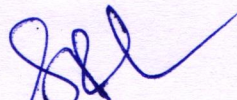
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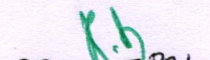
Attendance Sheet			Date:					
Sl. No	Register Number	Student Name	09.00 am - 10.00 am	10.00 am - 11.00 am	11.15 am - 12.15pm	01.00 pm - 02.00 pm	02.00 pm - 03.00 pm	03.15 pm - 04.15 pm
1	912018105001	S.ARUNKUMAR	S. Aru	S. Aru	S. Aru	S. Aru	S. Aru	S. Aru
2	912018105002	S.P.BUVANEESWARAN	Buvanesw	Buvanesw	Buvanesw	Buvanesw	Buvanesw	Buvanesw
3	912018105003	M.GOKULSARAVANA KUMAR	M. Gokul	M. Gokul	M. Gokul	M. Gokul	M. Gokul	M. Gokul
4	912018105004	SJEEVA	Jeeka	Jeeka	Jeeka	Jeeka	Jeeka	Jeeka
5	912018105005	A.KAVINMATHI	A. kavim	A. kavim	A. kavim	A. kavim	A. kavim	A. kavim
6	912018105007	K.RAMADHARSHINI	Ramadh	Ramadh	Ramadh	Ramadh	Ramadh	Ramadh
7	912018105008	K.SARANYA	R. Saranya	R. Saranya	R. Saranya	R. Saranya	R. Saranya	R. Saranya
8	912018105009	R.SIVA RANJANA	Siva.R	Siva.R	Siva.R	Siva.R	Siva.R	Siva.R
9	912018105010	I.THAMIZHARASI	T. Thai	T. Thai	T. Thai	T. Thai	T. Thai	T. Thai
10	912018105011	M.VIJAYAKUMAR	Vijay.m	Vijay.m	Vijay.m	Vijay.m	Vijay.m	Vijay.m
11	912018105301	J.I.MANOJ RAJ	Manojraj	Manojraj	Manojraj	Manojraj	Manojraj	Manojraj

Tea Break FN- 11:00 am to 11:15am & AN-03:00 pm to 03:15 pm

Lunch Break 12:15 pm to 01:00pm


Course coordinator


HOD/EEE


PRINCIPAL

Student Attendance Sheet

Academic Year : 2019-2020

Course Code : VACEE1920PLI

Course Name : Plant Lightning and illumination Design Specialization

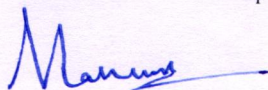
Duration of hours : 35

Period of Course : 04.12.19-09.12.2019

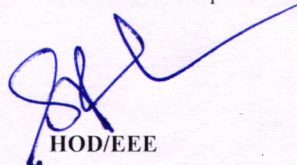
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1	912018105001	S.ARUNKUMAR	Arunkum	Arunkum	Arunkum	Arunkum	Arunkum	Arunkum
2	912018105002	S.P.BUVANEESWARAN	Bhuv	Bhuv	Bhuv	Bhuv	Bhuv	Bhuv
3	912018105003	M.GOKULSARAVANA KUMAR	Gokul	Gokul	Gokul	Gokul	Gokul	Gokul
4	912018105004	S.JEEVA	JEEVA	JEEVA	JEEVA	JEEVA	JEEVA	JEEVA
5	912018105005	A.KAVINMATHI	Kavina	Kavina	Kavina	Kavina	Kavina	Kavina
6	912018105007	K.RAMADHARSHINI	Dharm	Dharm	Dharm	Dharm	Dharm	Dharm
7	912018105008	K.SARANYA	Saru.S	Saru.S	Saru.S	Saru.S	Saru.S	Saru.S
8	912018105009	R.SIVA RANJANA	Siva.R	Siva.R	Siva.R	Siva.R	Siva.R	Siva.R
9	912018105010	I.THAMIZHARASI	Thamiz	Thamiz	Thamiz	Thamiz	Thamiz	Thamiz
10	912018105011	M.VIJAYAKUMAR	Vijay.M	Vijay.M	Vijay.M	Vijay.M	Vijay.M	Vijay.M
11	912018105301	J.I.MANOJ RAJ	Manoj.J	Manoj.J	Manoj.J	Manoj.J	Manoj.J	Manoj.J

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Course coordinator



HOD/EEE



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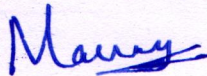
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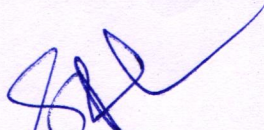
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2	912018105002	S.P.BUVANEESWARAN	Buvanesh	Buvanesh	Buvaneesh	Buvanesh	Buvanesh	Buvanesh
3	912018105003	M.GOKULSARAVANA KUMAR	Gokul	Gokul	Gokul	Gokul	Gokul	Gokul
4	912018105004	S.JEEVA	Leera	Leera	Leera	Leera	Leera	Leera
5	912018105005	A.KAVINMATHI	Kavya A	Kavya A	Kavya A	Kavya A	Kavya A	Kavya A
6	912018105007	K.RAMADHARSHINI	Raman	Raman	Raman	Raman	Raman	Raman
7	912018105008	K.SARANYA	Saranya	Saranya	Saranya	Saranya	Saranya	Saranya
8	912018105009	R.SIVA RANJANA	Sivaranjan	Sivaranjan	Sivaranjan	Sivaranjan	Sivaranjan	Sivaranjan
9	912018105010	I.THAMIZHARASI	Thambai	Thambai	Thambai	Thambai	Thambai	Thambai
10	912018105011	M.VIJAYAKUMAR	M. Vijay	M. Vijay	M. Vijay	M. Vijay	M. Vijay	M. Vijay
11	912018105301	J.J.MANOJ RAJ	Manoj Raj	Manoj Raj	Manoj Raj	Manoj Raj	Manoj Raj	Manoj Raj

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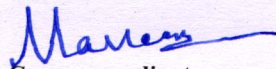
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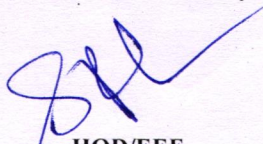
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2	912018105002	S.P.BUVANEESWARAN	Bhuvanar	Rhitar	Rhar	Rhy	Rhu	Rhis	
3	912018105003	M.GOKULSARAVANA KUMAR	M-Gokul	M-Gokul	M-Gokul	M-Gokul	M-Gokul	M-Gokul	
4	912018105004	S.JEEVA	Jeera	Jeera	Jeera	Jeera	Jeera	Jeera	
5	912018105005	A.KAVINMATHI	A-Kavi	A-Kavi	A-Kavi	A-Kavi	A-Kavi	A-Kavi	
6	912018105007	K.RAMADHARSHINI	Dhu	Dhy	Dhy	Dhu	Dhu	Dhu	
7	912018105008	K.SARANYA	SaranyaA	SaranyaA	SaranyaA	SaranyaA	SaranyaA	SaranyaA	
8	912018105009	R.SIVA RANJANA	Ruf	Rif	Rf	Rif	Rif	Rf	
9	912018105010	I.THAMIZHARASI	I-Thamiz	I-Thamiz	I-Thamiz	I-Thamiz	I-Thamiz	I-Thamiz	
10	912018105011	M.VIJAYAKUMAR	Vijay	Vijay	Vijay	Vijay	Vijay	Vijay	
11	912018105301	J.I.MANOJ RAJ	Manoj J	Manoj J	Manoj J	Manoj J	Manoj J	Manoj J	

Tea Break FN- 11:00 am to 11:15am & AN-03:00 pm to 03:15 pm

Lunch Break 12:15 pm to 01:00pm


Course coordinator


HOD/EEE


PRINCIPAL

Student Attendance Sheet

Academic Year : 2019-2020

Course Code : VACEE1920PLI

Course Name : Plant Lightning and illumination Design Specialization

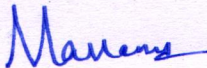
Duration of hours : 35

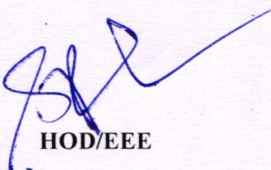
Period of Course : 04.12.19-09.12.2019

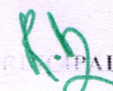
Attendance Sheet			Date:					
Sl. No	Register Number	Student Name	09.00 am - 10.00 am	10.00 am - 11.00 am	11.15 am - 12.15pm	01.00 pm - 02.00 pm	02.00 pm - 03.00 pm	03.15 pm - 04.15 pm
1	912018105001	S.ARUNKUMAR	B. Arun	B. Arun	B. Arun	B. Arun	B. Arun	B. Arun
2	912018105002	S.P.BUVANEESWARAN	Bhuvanesh	Bhuvan	Bhuvanesh	Bhuanes	Bhuvanesh	Bhuanes
3	912018105003	M.GOKULSARAVANA KUMAR	M. Gokul	M. Gokul	M. Gokul	M. Gokul	M. Gokul	M. Gokul
4	912018105004	S.JEEVA	Jeera	Jeera	Jeera	Jeera	Jeera	Jeera
5	912018105005	A.KAVINMATHI	A. Kavin	A. Kavin	A. Kavin	A. Kavin	A. Kavin	A. Kavin
6	912018105007	K.RAMADHARSHINI	Dars	Dars	Dars	Dars	Dars	Dars
7	912018105008	K.SARANYA	K. Saranya	K. Saranya	K. Saranya	K. Saranya	K. Saranya	K. Saranya
8	912018105009	R.SIVA RANJANA	Ranjana	Ranjana	Ranjana	Ranjana	Ranjana	Ranjana
9	912018105010	I.THAMIZHARASI	I. Thani	I. Thani	I. Thani	I. Thani	I. Thani	I. Thani
10	912018105011	M.VIJAYAKUMAR	Vijay	Vijay	Vijay	Vijay	Vijay	Vijay
11	912018105301	J.I.MANOJ RAJ	Manojraj	Manojraj	Manojraj	Manojraj	Manojraj	Manojraj

Tea Break FN- 11:00 am to 11:15am & AN-03:00 pm to 03:15 pm

Lunch Break 12:15 pm to 01:00pm


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

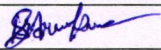
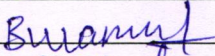
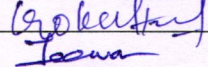
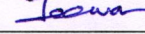
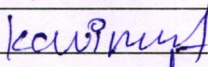
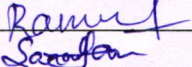
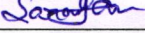

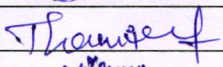


Academic Year : 2019-2020

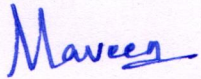
Course Code : VACEE1920PLI

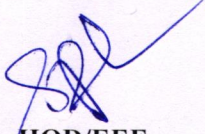
Course Name : Plant Lightning and illumination Design Specialization

Duration of hours : 35

Period of Course : 04.12.19-09.12.2019

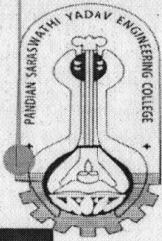
Enrolled Students List			Signature
Sl. No	Register Number	Student Name	
1	912018105001	S.ARUNKUMAR	
2	912018105002	S.P.BUVANEESWARAN	
3	912018105003	M.GOKULSARAVANA KUMAR	
4	912018105004	S.JEEVA	
5	912018105005	A.KAVINMATHI	
6	912018105007	K.RAMADHARSHINI	
7	912018105008	K.SARANYA	
8	912018105009	R.SIVA RANJANA	
9	912018105010	I.THAMIZHARASI	
10	912018105011	M.VIJAYAKUMAR	
11	912018105301	J.I.MANOJ RAJ	


Course coordinator


HOD/EEE


PRINCIPAL

MODEL
CERTIFICATES



PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

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

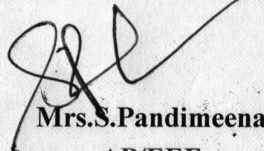
Value added course on Plant Lightning and Illumination Design

Organized by


DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING

CERTIFICATE

This is Certify that S.JEEVA From **Second year**
EEE has participated in the value-added course on Plant Lightning And illumination Design organized
by the Department of Electrical And Electronics Engineering From 04.12.2019 to 09.12.2019 (35 Hours)
at Pandian Saraswathi Yadav Engineering College, Sivagangai.

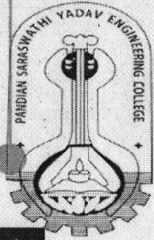

Mrs.S.Pandimeena
AP/EEE

Head of the Department


Dr.R.RAJA
Principal

R
RAJA

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PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

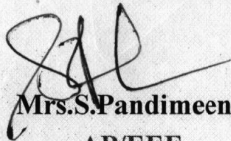
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Arasanoor, Thirumansolai Post, Sivagangai – Madurai Highway, Tamilnadu - 630 561

Value added course on Plant Lightning and Illumination Design

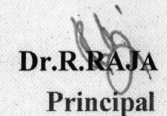
Organized by
DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING

CERTIFICATE

This is Certify that K.SARANYA From **Second year**
EEE has participated in the value-added course on Plant Lightning And illumination Design organized
by the Department of Electrical And Electronics Engineering From 04.12.2019 to 09.12.2019 (35 Hours)
at Pandian Saraswathi Yadav Engineering College, Sivagangai.

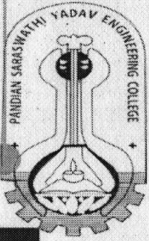

Mrs.S.Pandimeena
AP/EEE

Head of the Department


Dr.R.RAJA
Principal

R
RAJA

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RAJA
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2024.07.16
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Arasanoor, Thirumansolai Post, Sivagangai – Madurai Highway, Tamilnadu - 630 561

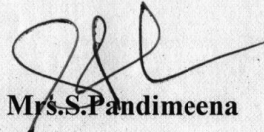
Value added course on Plant Lightning and Illumination Design

Organized by


DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING

CERTIFICATE

This is Certify that**J.I.MANAJ.....RAJ**..... From **Second year**
EEE has participated in the value-added course on Plant Lightning And illumination Design organized
by the Department of Electrical And Electronics Engineering From 04.12.2019 to 09.12.2019 (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
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