




STSN GOVERNMENT DEGREE COLLEGE
KADIRI-515 591, SRI SATHYA SAI (Dist)
Academic Year: 2022-23

Certificate course
on
Electrical Appliance in Day to Day Life

Department of Physics


22/06/2023
Head of the Dept. in Physics
S.T.S.N. Govt. Degree College
KADIRI - 515 591, Anantapur (A.P.)

From
Department of Physics
STSN Govt Degree College,
Kadiri-515 591, Sri Sathya Sai (Dist)

Date: 22.06.2023

To
The Principal
STSN Govt Degree College,
Kadiri-515 591, Sri Sathya Sai (Dist)

Subject: Request to Conduct Certificate Course

Respected Madam,

I wish bring to your kind notice that, department of physics for conducting a certificate course at our college. I believe that offering this course would not only enhance the educational experience for our students but also contribute positively to their skill development and employability. I kindly request your support and approval to conduct this certificate course at our college.

Course Name: Electrical Appliances in Day-to-Day Life

Duration: 30 Days (01.07.2023 to 31.07.2023)

Group: II MPCs

Thanking you Madam

Pranika S & Associates
S. Sathya Sai
22/06/23

[Signature]
Yours Sincerely,
[Signature]
Lecturer in Physics
S.T.S.N. Govt. Degree College
KADIRI - 515 591, Anantapur (Dt.)
[Signature]
22/06/2023

Head of the Dept. in Physics
S.T.S.N. Govt. Degree College
KADIRI - 515 591, Anantapur (Dt.)

Dept.of Physics, STSN Govt Degree College, Kadiri-515 591

STSN Govt Degree College, Kadiri-515 591
Dept.of Physics
CIRCULAR

23.06.2023


Dear Students,

We are excited to announce the launch of a new and enriching opportunity for skill enhancement and personal development. This course is designed to equip you with practical skills and knowledge that will not only complement your academic journey but also prepare you for the challenges of the modern world. In this regard enroll their names and pay Rs.100/- in the Department of Physics on or before **28.06.2023**.


Head of the Department of Physics

Course Name: Electrical Appliances in Day-to-Day Life
Duration: 30 Days (01.07.2023 to 31.07.2023)
Group: II MPCs

Lecturer in Physics
S.T.S.N. Govt. Degree College
KADIRI - 515 591, Anantapur (Dt.)


22/06/2023
Head of the Dept. in Physics
S.T.S.N. Govt. Degree College
KADIRI - 515 591, Anantapur (Dt.)

Dept.of Physics, STSN Govt Degree College, Kadiri-515 591



Course Objectives:

A course on electrical appliances in day-to-day life would likely cover a range of topics related to the use, functioning, safety, and maintenance of common electrical devices found in households. The specific course outcomes may vary based on the level and depth of the course, but here are some general course outcomes you might expect:

Understanding Electrical Basics:

Explain the fundamental concepts of electricity, voltage, current, resistance, and power. Describe the difference between AC (alternating current) and DC (direct current).

Identifying Common Electrical Appliances:

Identify and classify common electrical appliances used in households, such as refrigerators, microwaves, washing machines, vacuum cleaners, toasters, and more. Understand the basic principles behind the operation of these appliances.

Safety and Precautions:

Describe safety measures when using electrical appliances, including proper grounding, avoiding overloading circuits, and using appropriate extension cords. Explain the importance of using appliances with safety certifications and avoiding counterfeit products.

Energy Efficiency:

Discuss the concept of energy efficiency and its importance in reducing electricity consumption. Compare the energy efficiency of different appliances and suggest ways to minimize energy use.

Appliance Operation and Maintenance:

Explain how to operate different electrical appliances safely and efficiently. Discuss routine maintenance tasks to prolong the lifespan of appliances, such as cleaning, checking for wear and tear, and replacing filters.

Troubleshooting and Basic Repairs:

Identify common issues that can occur with electrical appliances and troubleshoot basic problems. Demonstrate the ability to perform simple repairs or adjustments, such as changing a fuse or unclogging a drain.

Environmental Impact:

Examine the environmental impact of electrical appliances, including their manufacturing, energy consumption, and disposal. Discuss ways to minimize the negative environmental effects of appliance use.

Real-World Application:

Encourage students to apply their knowledge to real-world scenarios, such as evaluating the electrical needs of a household, making energy-efficient choices, and maintaining appliances effectively.

By the end of the course, students should have a comprehensive understanding of electrical appliances commonly used in day-to-day life, along with the knowledge and skills needed to use them safely and efficiently.

Course Outcomes

A course on electrical appliances in day-to-day life would likely cover a range of topics related to the use, functioning, safety, and maintenance of common electrical devices found in households. The specific course outcomes may vary based on the level and depth of the course, but here are some general course outcomes you might expect:

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Environmental Impact:

Examine the environmental impact of electrical appliances, including their manufacturing, energy consumption, and disposal. Discuss ways to minimize the negative environmental effects of appliance use.

Consumer Rights and Responsibilities:

Inform students about their rights as consumers when purchasing electrical appliances, including warranties and return policies. Explain the importance of responsible consumption and proper disposal of old appliances.

Real-World Application:

Encourage students to apply their knowledge to real-world scenarios, such as evaluating the electrical needs of a household, making energy-efficient choices, and maintaining appliances effectively. By the end of the course, students should have a comprehensive understanding of electrical appliances commonly used in day-to-day life, along with the knowledge and skills needed to use them safely and efficiently.

Dishwashers: Cleaning cycles, water consumption, and maintenance.

Laundry Appliances:

Washing Machines: Types, washing cycles, detergent choices, and water-saving technologies.

Dryers: Drying methods, energy efficiency, and lint management.

Climate Control Appliances:

Air Conditioners: Cooling mechanisms, thermostat settings, and energy-efficient usage.

Heaters: Heating methods, temperature control, and safety precautions.

Entertainment Appliances:

Televisions: Display technologies, screen sizes, energy-saving modes, and connectivity.

Audio Systems: Speaker types, streaming options, and power consumption.

Cleaning Appliances:

Vacuum Cleaners: Types, suction power, filter maintenance, and avoiding cord hazards.

Safety and Maintenance:

- ✓ Proper grounding and electrical connection for appliances.
- ✓ Cleaning routines and maintenance tasks to ensure appliances operate effectively.
- ✓ Handling emergencies and troubleshooting common issues.

Module: Safety and Precautions for Electrical Appliances

Objective: Educate students on essential safety measures and precautions when using electrical appliances to prevent accidents, injuries, and potential hazards.

Learning Outcomes: By the end of this module, students should be able to:

Understand Electrical Hazards:

Identify potential electrical hazards associated with improper appliance usage.
Describe the risks of electric shock, fires, and other accidents.

Practice Safe Handling:

Demonstrate proper methods for plugging and unplugging appliances. Explain the importance of using grounded outlets and avoiding overloading circuits.

Use Extension Cords Safely:

Differentiate between appropriate and inappropriate uses of extension cords. Describe how to select the right extension cord for specific appliances.

Identify Counterfeit Appliances:

Explain the risks associated with using counterfeit or uncertified appliances. Discuss how to identify genuine and certified products.

Adopt Child Safety Measures:

Outline safety measures to protect children from accessing and tampering with electrical appliances. Recommend childproofing techniques for outlets and cords.

Know Emergency Procedures:

Explain what to do in case of electrical accidents, such as electrical shocks or appliance malfunctions. Discuss steps to shut off electricity in emergencies.

Use Appliance-Specific Precautions:

Describe appliance-specific safety guidelines for devices like space heaters, irons, and toasters. Provide guidelines for using appliances in specific locations, such as bathrooms or kitchens.

Topics Covered:**Electrical Safety Basics:**

Explanation of electric shock, its causes, and effects on the human body. Overview of fire hazards related to electrical appliances.

Safe Handling and Plugging In:

Proper methods for plugging and unplugging appliances. The significance of three-pronged plugs and grounded outlets.

Extension Cord Usage:

When to use extension cords and when to avoid them. Selecting the appropriate extension cord for different appliances.

Certification and Counterfeit Products:

Introduction to safety certifications and standards for electrical appliances. Identifying counterfeit or uncertified appliances and their risks.

Child Safety Measures:

Childproofing outlets, cords, and appliance controls. Keeping potentially dangerous appliances out of children's reach.

Emergency Procedures:

Immediate steps to take in case of electric shock or appliance-related emergencies. How to turn off electricity in a safe manner.

Appliance-Specific Safety:

Specific precautions for high-heat appliances like irons and space heaters. Using appliances safely in damp or wet environments.

Module: Energy Efficiency of Electrical Appliances

Objective: Educate students on the importance of energy efficiency, ways to assess it in appliances, and methods to promote energy-saving practices.

Learning Outcomes: By the end of this module, students should be able to:

Define Energy Efficiency:

Define energy efficiency in the context of electrical appliances and its significance in reducing energy consumption.

Compare Energy Ratings:

Explain the meaning of energy efficiency ratings, such as Energy Star labels. Compare and evaluate energy ratings of different appliances.

Calculate Energy Consumption:

Demonstrate how to calculate energy consumption and estimate operating costs of appliances.

Promote Energy-Saving Practices:

Recommend practical methods to save energy while using appliances (e.g., shorter wash cycles, adjusting thermostat settings).

Identify Energy-Hungry Appliances:

Identify appliances that typically consume high amounts of energy and suggest ways to minimize their impact.

Advocate for Smart Usage:

Explain the benefits of using appliances during off-peak hours to take advantage of lower electricity rates.

Topics Covered:**Understanding Energy Efficiency:**

Explanation of energy efficiency and its relationship to environmental conservation. Impact of energy-efficient appliances on electricity bills.

Energy Efficiency Ratings:

Introduction to Energy Star and other energy efficiency labels. Decoding energy efficiency ratings and their significance.

Calculating Energy Consumption:

Basic formulas to calculate energy consumption and costs. Factors influencing energy usage, such as wattage and usage duration.

Energy Consumption (in kilowatt-hours, kWh) =

$$\text{Power (in kilowatts, kW)} \times \text{Time (in hours, h)}$$

Where:

Energy Consumption: The amount of energy consumed by an appliance, usually measured in kilowatt-hours (kWh).

Power: The power rating of the appliance, measured in kilowatts (kW). This is the amount of energy the appliance uses per unit of time.

Time: The time the appliance is used, measured in hours (h).

For example, if you have a 1000-watt (1 kW) appliance running for 3 hours, the energy consumption would be:

$$\text{Energy Consumption} = 1 \text{ kW} \times 3 \text{ hours} = 3 \text{ kWh}$$

This means the appliance has consumed 3 kilowatt-hours of energy during the 3-hour period it was running.

Energy-Saving Practices:

Tips for using appliances more efficiently without sacrificing performance. Recommendations for using energy-saving modes and features.

Identifying High-Energy Appliances:

Listing appliances that consume significant amounts of energy. Strategies to minimize energy consumption while using these appliances.

Off-Peak Energy Usage:

Exploring the concept of off-peak electricity rates and their benefits. Advising on scheduling appliance usage to take advantage of lower rates.

Off-peak energy usage refers to the practice of using electricity during periods of lower demand, typically when overall electricity consumption is lower. Off-peak hours are times when fewer people are using electricity, such as late at night, early in the morning, or during certain weekdays. This practice is often encouraged by utilities and providers as a way to balance the load on the electrical grid and take advantage of surplus energy production.

Benefits of Off-Peak Energy Usage:

1. **Lower Energy Costs:** Off-peak electricity rates are usually lower than peak rates. By using electricity during these times, consumers can reduce their energy bills.

2. **Grid Stability:** Reducing energy usage during peak hours helps stabilize the electrical grid. Peak demand can strain the grid and lead to inefficiencies or even power outages.
3. **Environmental Impact:** Off-peak usage can support the integration of renewable energy sources like solar and wind, which may generate excess power during certain times. Using this surplus energy can reduce reliance on non-renewable sources.
4. **Resource Conservation:** Lowering demand during peak hours can reduce the need for additional power generation infrastructure, contributing to resource conservation.

Examples of Off-Peak Activities:

Charging Electric Vehicles:

Charging electric vehicles during off-peak hours can take advantage of lower rates and reduce the load on the grid during peak demand.

Running Appliances:

Operating appliances like dishwashers, washing machines, and dryers during off-peak hours can save money and contribute to grid stability.

Heating and Cooling:

Using heating and cooling systems during off-peak hours can lead to energy savings, especially if the home's thermal insulation is well-maintained.

Pool Pumps and Hot Water Heaters:

These energy-intensive devices can be scheduled to run during off-peak hours.

Module: Appliance Operation and Maintenance

Objective: Teach students how to effectively operate and maintain electrical appliances to prolong their lifespan, ensure optimal performance, and enhance safety.

Learning Outcomes: By the end of this module, students should be able to:

Operate Appliances Safely:

Demonstrate correct procedures for turning appliances on, using controls, and adjusting settings.

Understand User Manuals:

Explain the importance of reading user manuals for proper appliance operation.
Interpret symbols, labels, and instructions in user manuals.

Perform Routine Maintenance:

List routine maintenance tasks for different appliances (e.g., cleaning filters, defrosting, lubricating moving parts).

Follow Cleaning Guidelines:

Describe appropriate cleaning methods and materials for various appliance surfaces.

Preventive Maintenance:

Explain the benefits of preventive maintenance to prevent breakdowns and costly repairs.

Extend Appliance Lifespan:

Provide tips for using appliances in a way that minimizes wear and tear.

Topics Covered:**Safe Appliance Operation:**

The importance of following manufacturer guidelines for proper appliance usage.
Avoiding improper use that could lead to damage or accidents.

User Manuals and Instructions:

Understanding the structure of user manuals. Importance of reading and referring to manuals for troubleshooting and maintenance.

Routine Maintenance Tasks:

Specific maintenance tasks for different appliances (e.g., cleaning lint filters, descaling kettles). How regular maintenance can improve performance and efficiency.

Effective Cleaning Practices:

Materials and methods for cleaning appliance exteriors, interiors, and components.
Importance of cleanliness for appliance longevity.

Preventive Maintenance Benefits:

Exploring the concept of preventive maintenance and its cost-saving benefits. Practical examples of how regular maintenance can prevent breakdowns.

Appliance Longevity Strategies:

Tips for avoiding behaviors that could lead to premature appliance wear and tear. How proper usage and maintenance contribute to extended appliance lifespan.

Module: Troubleshooting and Basic Repairs for Electrical Appliances

Objective: Equip students with the skills to identify common issues in electrical appliances, perform basic troubleshooting, and conduct simple repairs to address minor problems.

Learning Outcomes: By the end of this module, students should be able to:

Identify Common Appliance Issues:

- Recognize and describe common problems that can occur in various types of electrical appliances.
- Apply Systematic Troubleshooting:
- Apply a structured approach to diagnose the root causes of appliance malfunctions.

Perform Basic Repairs:

Demonstrate basic repair techniques to address minor issues and restore appliance functionality.

Know Safety Precautions:

Explain safety precautions to take while troubleshooting and performing repairs to prevent accidents.

Recognize Limits:

Understand the limitations of basic repairs and know when to seek professional assistance.

Topics Covered:**Common Appliance Problems:**

Introduction to common issues like appliances not turning on, uneven heating, leaks, and unusual noises.

Systematic Troubleshooting:

Steps to identify the possible causes of a problem, starting from power supply issues to component malfunctions.

Basic Repair Techniques:

Practical guidance on simple repairs, such as replacing a blown fuse, unclogging drains, or tightening loose connections.

Safety Precautions:

Explanation of safety measures, such as disconnecting power, using proper tools, and wearing protective gear.

Module: Environmental Impact of Electrical Appliances

Objective: Educate students about the environmental consequences associated with the lifecycle of electrical appliances and promote sustainable practices to minimize their negative impact.

Learning Outcomes: By the end of this module, students should be able to:

Understand Lifecycle Impact:

Explain the various stages of an appliance's lifecycle (manufacturing, use, disposal) and their environmental implications.

Identify Environmental Concerns:

Identify environmental issues related to appliance production, energy consumption, and electronic waste.

Analyze Energy Consumption:

Analyze the energy consumption and greenhouse gas emissions associated with different appliances.

Promote Sustainable Usage:

Recommend strategies to minimize energy consumption while using appliances. Advocate for energy-efficient models and appliances with eco-friendly features.

Reduce Electronic Waste:

Explain the importance of responsible disposal and recycling of electrical appliances. Describe methods for extending the lifespan of appliances and reducing waste.

Evaluate Energy Labels:

Interpret energy labels and certifications to make informed purchasing decisions.

Topics Covered:**Lifecycle Impact of Appliances:**

Explanation of the environmental impact at various stages: raw materials extraction, manufacturing, transportation, use, and disposal.

Environmental Concerns in Manufacturing:

Discuss the resource extraction, energy usage, and waste generation during appliance production. Introduce concepts like embodied energy and carbon footprint.

Energy Consumption and Emissions:

Understand the carbon emissions resulting from energy production for appliance usage. Analyze energy consumption patterns for various appliances.

Promoting Energy Efficiency:

Tips for optimizing appliance usage to reduce energy consumption. Advocating for the use of energy-efficient models and features.

Electronic Waste Management:

Discuss the problems associated with electronic waste (e-waste) from discarded appliances. Strategies for proper disposal, recycling, and refurbishment of appliances.

Eco-Friendly Purchasing:

Interpretation of energy labels (e.g., Energy Star) to assess the energy efficiency of appliances. Making informed purchasing decisions based on environmental considerations.

Module: Real-World Application of Electrical Appliance Knowledge

Objective: Engage students in real-world scenarios where they apply their understanding of electrical appliances, safety practices, energy efficiency, and basic troubleshooting to solve practical challenges.

Learning Outcomes: By the end of this module, students should be able to:

Apply Appliance Knowledge:

Apply their understanding of different appliance types, functions, and safe usage in real-life situations.

Evaluate Energy Efficiency:

Analyze household energy consumption patterns and recommend energy-efficient practices.

Assess Safety Concerns:

Identify potential safety hazards in a given scenario and propose solutions to mitigate risks.

Diagnose Problems:

Diagnose appliance malfunctions based on real-world symptoms and troubleshoot basic issues.

Propose Solutions:

Recommend solutions to improve appliance performance, extend lifespan, and minimize energy consumption.

Topics Covered:**Energy-Efficient Household:**

Analyze a household's energy consumption and recommend energy-saving measures for different appliances.

Safety Audit:

Conduct a safety audit of a home environment, identifying potential electrical hazards and proposing safety measures.

Appliance Troubleshooting:

Provide step-by-step troubleshooting solutions for specific appliance malfunctions based on real-world symptoms.

Appliance Replacement Decisions:

Analyze the pros and cons of replacing an old appliance with a more energy-efficient model.

Sustainable Appliance Usage:

Propose strategies for using appliances sustainably and extending their lifespan through proper maintenance.

Teaching Methods:

Case Studies: Present real-life scenarios where students must apply their knowledge to solve appliance-related challenges.

Group Projects: Assign students to work in groups to analyze household energy usage, safety concerns, or appliance troubleshooting.

Field Visits: Arrange visits to homes or facilities where students can observe and assess real-world appliance situations.

STSN Govt Degree College, Kadiri
Department of Physics
Examination on Certificate Course
Course: Electrical Appliances in Day-to-Day Life

Duration: 2 hours

Max. Marks: 40

Instructions:

- Answer all questions.
- Each question carries the indicated number of marks.

Section A: Multiple Choice Questions (MCQs)

(Answer all questions. Each question carries 1 mark.) **5 x 1 = 5 M**

1. What is the primary purpose of energy-efficient labels such as "Energy Star" on appliances?
 - a) Indicates the appliance's manufacturing date
 - b) Certifies the appliance for warranty purposes
 - c) Indicates the energy efficiency of the appliance
 - d) Represents the appliance's color options
2. Which of the following is an example of a kitchen appliance?
 - a) Vacuum cleaner
 - b) Television
 - c) Washing machine
 - d) Microwave oven
3. What is the purpose of conducting a safety audit for electrical appliances?
 - a) To identify energy-efficient appliances
 - b) To diagnose malfunctioning appliances
 - c) To evaluate the safety of appliance usage
 - d) To calculate energy consumption
4. When troubleshooting an appliance issue, what should be the first step?
 - a) Immediately disassemble the appliance
 - b) Call a professional technician
 - c) Identify and correct any power supply issues
 - d) Replace the malfunctioning component
5. Which of the following appliances might require descaling as part of its maintenance?
 - a) Television
 - b) Air conditioner
 - c) Microwave oven
 - d) Electric toothbrush

Section B: Short Answer Questions

(Answer any Three questions. Each question carries 5 marks.) 4 x 5 = 15 M

6. Explain the concept of energy efficiency and why it's important for electrical appliances.
7. Describe three safety precautions one should take while using electrical appliances.
8. Briefly explain the steps you would take to troubleshoot an appliance that isn't turning on.
9. Discuss the significance of reading and understanding user manuals when operating and maintaining appliances.
10. List three routine maintenance tasks that can help prolong the lifespan of a refrigerator.

Section C: Application and Analysis

(Answer any two questions. Each question carries 10 marks.) 2 x 10 = 20 M

11. Imagine you are conducting a safety audit for a household. Identify and explain five potential electrical hazards you might encounter and suggest solutions to mitigate each hazard.
12. Analyze the energy consumption patterns of a typical household and recommend specific energy-efficient practices for using appliances in daily life.
13. Consider a scenario where a washing machine is making loud and unusual noises during operation. Describe the steps you would take to diagnose the problem and suggest a possible solution.



Lecturer in Physics
S.T.S.N. Govt. Degree College
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STSN Govt. Degree College, Kadiri-515 591

Department of Physics
Academic Year: 2022-23

Certificate Course: Electrical Appliances in Day-to-Day Life
Student Attendance Statement From 01.07.2023 to 31.07.2023

S.No	Name of the Student	1	3	4	5	6	7	10	11	12	13	14	15	17	18	19	20	21	22	24	25	26	27	28	31	Present Days
1	B. RAJA SEKHAR	X	X	X	A	X	X	A	X	X	X	X	X	X	A	X	X	X	X	X	X	X	X	X	X	21
2	BESTA VINAY KUMAR	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	21
3	DANDAGALA MARUTHI	X	X	X	A	X	X	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	21
4	D. BASHHEERA BANU	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	20
5	JATTI SUJATHA	X	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	22
6	KOKKANTI GANESH	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	21
7	KOMMU BHARGAVA	X	X	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	21
8	MADDIGOLLA PRABHAS	X	X	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	21
9	M. SOWJANYA	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	22
10	N. CHANDANA	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	24
11	SANKU REDDY KUMARI	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	21

Dept. of Physics, STSN Govt Degree College, Kadiri-515 591


Head of the Dept. in Physics

[Signature]

KADIRI - 515 591, Anantapur (Dt.)

STSN Govt. Degree College, Kadiri-515 591
Department of Physics
Academic Year: 2022-23
Certificate Course: Electrical Appliances in Day-to-Day Life
From 01.07.2023 to 31.07.2023

S.No	Name of the Student	Signature of the Student
1	B. RAJA SEKHAR	B. Rajasekhar.
2	BESTA VINAY KUMAR	B. Vinay Kumar
3	DANDAGALA MARUTHI	D. Maruthi
4	D. BASHEERA BANU	D. BASHEERA BANU
5	JATTI SUJATHA	J. Sujatha.
6	KOKKANTI GANESH	K. Ganesh
7	KOMMU BHARGAVA	K. Bhargava
8	MADDIGOLLA PRABHAS	M. Prabhas
9	M. SOWJANYA	M. Sowjanya.
10	N. CHANDANA	N. Chandana.
11	SANKU.REDDY KUMARI	S. Reddy Kumari


22/06/2023

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KADIRI - 515 591, Anantapur (Dt.)





STSN Government Degree College, Kadirī
Re-Accredited With 'B' Grade by NAAC
An ISO 9001:2015 Institution
DEPARTMENT OF PHYSICS

Course Completion Certificate

This is certified that, Mr / Ms. _____, II MPCs has

successfully completed **ONE MONTH** Certificate course on "Electrical Appliance in Day to Day life" organized by Department of Physics from 01.07.2023 to 31.07.2023.

HOD of Physics
(Dr.B.Srinivasa Rao)

Lecturer in Physics
(D.Subramanyam)

Principal
(Dr.S.Smitha)