To The Board of Studies, S.D.Mahila Mahavidyalya, Narwana.

Sub: Approval for "Basic Components of Physics" Certificate course ..

Respected Madam,

We want to start a certified offline course "Basic Components of Physics"(30 Hours) in our campus. A Certificate is an education goal for many students who want to improve their visibility among aggressive job applications. Certificates may help to provide students with increased skills and experience. Syllabus of "Basic Components of Physics" is attached with this application. Please kindly approve this certified course. We shall be thankful to you for this.

Enclosed: Syllabus of the Certificate Course.

Officiating Principal S.D. Mahila Mahavidyalya NARWANA

Yours Faithfully

Ms.Nish

Asstt. Prof. of Physics

### **Skill oriented course**

### Syllabus

### **Topic = Basic component of Physics**

1. Introduction

1.1 Basic Components

- Transistor
- Diode
- Resistor
- LED
- Potentiometer
- Relay
- Capacitor
- Inductor.
- PCB
- Bread board
- 2. Use of Multimeter

3. How to make an electric extension board

- 4. How to repair water pump in an electric cooler.
- 5. How to use soldering iron
- 6. How to make COB LED (Chip ON Board)
- 7. Uses and applications of Basic components.

Sen Officiating Principal S.D. Mairila Mahavidyalyo NARWANA

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#### Theory

M.M-20

Time - 1:00 hour

Note:- Paper Setter will set 5 question in all. Question No. 1 Comprising of 4 short types Questions carrying 1 Marks each is compulsory. It Covers the entire syllabus. Candidate is required to attempt all questions carrying 4 marks each.

#### "Practicals"

MM-20

Time- 1:00 hour

Note-Do any one experiment (Program) from the five (Program)

\* The Practical examination will be held in a Single Session of 1 hour.

Distribution of Marks:

Experiments- 15 marks

Viva Voice- 05 marks

Total- 20 marks

Officiating Principal S.D. Mahila Mahavidyalyo NARWANA

Ms. Nisha Asst. Prof. of Physics

Ms. Mahak Asst. Prof. of Physics

Subject: Approval for "Basic Components of Physics" by the Board of Studies

Dear Ms. Nisha & Mahak,

I am pleased to inform you that after careful consideration and review by the Board of Studies, has approved "Basic Components of Physics" which spans over 30+ hours of instruction.

This course has been evaluated thoroughly to ensure its alignment with our institution's academic standards and objectives. We believe that it will significantly contribute to the academic enrichment of our students and align with our commitment to providing high-quality education.

Thank you for your interest and support in our academic endeavors.

Yours sincerely.

Andeep Dr. Na Assoc Prof. in Eco. Convener

Dr. Anita Chabra Asst. Prof. in Hindi

Member

Dr. Shallu Sachdeva Suman Garg Asst. Prof. in Hist.

Member

Member

Nisha

Asst. Prof. in Eng. Asst. Prof. in Physics Member

Officiating crincipa

S.D. Marin Mahavid yalyo NARWANA

Ph. No. 01684-240161



# S D MAHILA MAHAVIDYALYA NARWANA-126116 (JIND) HARYANA

Dated:-...28/09/2022

# **Notice**

बी एस सी द्वितीय वर्ष की सभी छात्राओं को सूचित किया जाता है कि 01 ऑक्टूबर 2022 से महाविद्यालय में Basic Component of physics पर 30 घंटे का सर्टिफिकेट कोर्स करवाया जाएगा और कोर्स के अंत में परीक्षा ली जाएगी और छात्राओं को प्रमाण पत्र दिए जाएंगे।

Officiating Principal S.D. Mahila Mahavidyalyo NARWANA



# DEPARTMENT OF SCIENCE PROUDLY OFFERS ADD ON CERTIFICATE COURSE IN BASIC COMPONENTS OF PHYSICS

# **STARTING FROM 1 OCTOBER 2022**

**DURATION - 30 HOURS** 

MODE- OFFLINE

The primary objective of the "Fundamentals of Physics: Exploring Basic Components" certificate course is to provide BSc students with a comprehensive understanding of essential concepts in physics and their applications. By the end of the course, students should be able to: Understand Fundamental Principles Apply Physical Laws Analyze Systems Perform Laboratory Experiments Demonstrate Problem-Solving Skills

MS. NISHA

MS. MAHAK

DR. ANJANA LOHAN PRINCIPAL

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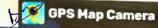
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Officiating Principal S.D. Mahila Mahavidyalyo NARWANA



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### Skill oriented certificate course

# Topic - Basic components of physics

Session - 2022-2023.

M.M= 20.

Time = 1hour

All candidates are required to attempt any four questions from Question 2 to Question 6. Question 1 is compulsory.

Ques 1. (a) What is resistor?

(b) Why we use soldering iron machine?

.

(c) What is diode?

(d) What is transistor? 4×1=4

Ques 2. What is breast board? How many parts are there in bread board?

Ques 3. What is PCB? What are three types of circuit board?

Ques 4. Write the name of 8 basic electronic components with symbol?

Ques 5. Explain the uses of basic electronic components.

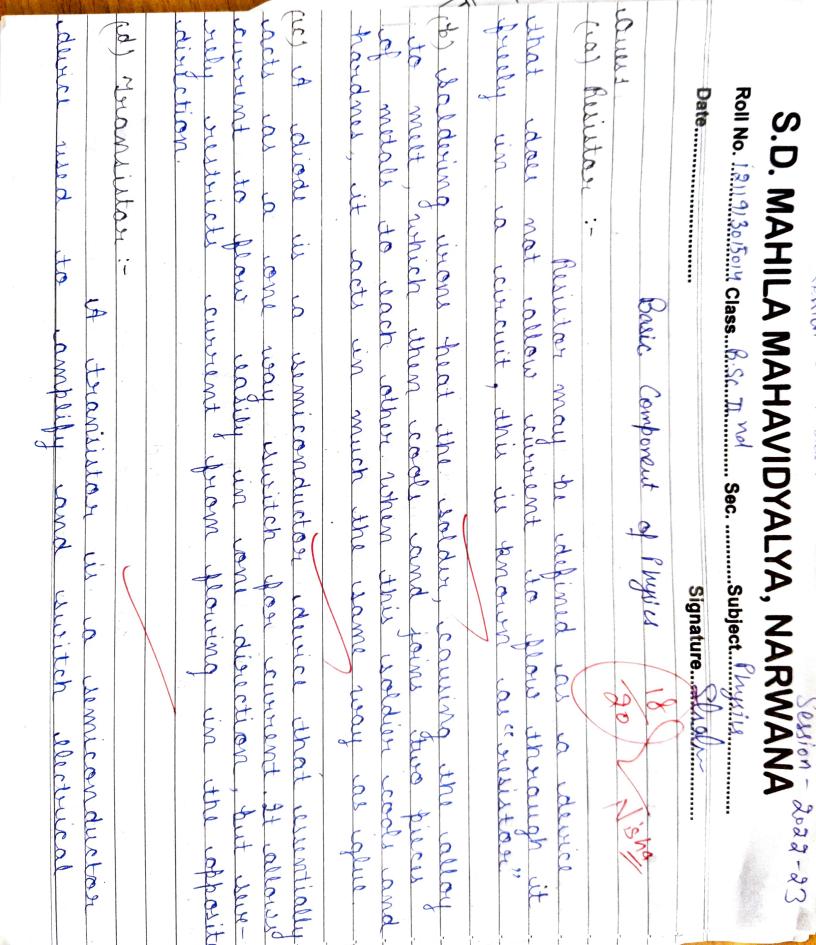
Ques 6. (a) Define the LED witbits full form

(b) Explain inductor and capacitor with its symbols. 4×4= 16

Officiating Principal S.D. Mairila Mahavidyalyo NARWANA

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(d) Ans: - Telansister > A + telansister is a type of semiconductor device that can be used to conduct and insulate Que Tr. (b) Ans: This is a process where solder a fusible metal alloy typically a wire is heated to a high temper-ature with the tip of the soldering irron. when this soldier cools and handens, it acts in much the same Ans: - Resistant & Resistant is defined as the device that C) Ans: Diode > Diodes are made from a semiconductory current to their easily is one dispection, but severily uses toricts current from flowing in the opposite dispection most often silicon but sometimes germanium. It allows S electoric Date..... way as S.D. MAHILA MAHAVIDYALYA, NARWANA it. Loicely in a does switch and an amplifican not allow electric current to the through cusulent ou voltage. A transistant basically act glue. 30 いらいで News Signature......



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25.	1211913015030	Priya	18	19	36

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Officiating Principal S·D. Majula Mahavidyalyo NARWANA

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## Overview

# Skill Oriented Course on Basic component of Physics Session:- 2022-23

The Certificate Course on Basic Component of physics Offered by the Department of Physics, Mrs. Nisha S.D.MM.V Narwana has conducted from 01 October,2022 to 19 November, 2022 with a batch of 34 students and 34 Students successfully completed the course. The students gain knowledge for transistor, LED; Breadboard, Multimeter, Capcitor etc. During this certificate Course Mrs Nisha and Mahima gave the mechanical skill like, How to make an electric extension board, Repairing af Water pump in an electric cooler, soldering iron, How to make COB LED.

Principal Dr Anjana Lohan, Dr Nayandeep, Dr Shalu Sachdeva, Poonam, Seema, Mahima were present at this event.

### Learning outcomes

- \*. Gain knowledge of Basic Component of Physics.
- \*. Operate soldering iron, Multimeter
- \*. Develop mechanical skill.
- \*. How to make an extension board.
- \*. Knowledge to repair water pump in an electric cooler.
- \*. How to make COB LED
- \*. Learning how to repair Physics practical apparatus.

All students successfully completed this Course. By gaining knowledge of this course, me they become self independent and will start their own Start up in future to make earning.

un Officiating Principal S.D. Mahila Mahavidyalyo NARWANA

# S D Mahila Mahavidyalya, Narwana Student Foodback Performa

Student Feedback Fen	Onna		· · ·	
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# S D Mahila Mahavidyalya, Narwana Student Feedback Performa

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