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.

Officiating Principal

S.D. Mahila Mahavidyalya
NARWANA

Enclosed: Syllabus of the Certificate Course.

Yours Faithfully

MIS.INISHA

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.

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

Ms. Nisha

Asst. Prof. of Physics

Ms. Mahima

Asst. Prof. of Physics

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

Dear Ms. Nisha & Mahima,

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.

Dr. Nayandeep

Assoc. Prof. in Eco.

Convener

Asst. Prof. in Hindi

Member

Dr. Shallu Sachdeva Suman Garg

Asst. Prof. in Hist.

Member

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

Member

Member

Officiating inition S D. Mahila Mahavid varve NARWANA



S D MAHILA MAHAVIDYALYA NARWANA-126116 (JIND) HARYANA

Dated:-4/11/2021

Notice

बी एस सी द्वितीय वर्ष की सभी छात्राओं को सूचित किया जाता है कि 06.1 1.2021 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 Mahavidyalya
NARWANA

PAR



S.D MAHILA MAHAVIDYALAYA NARWANA



PROUDLY OFFERS ADD ON CERTIFICATE COURSE IN BASIC COMPONENTS OF PHYSICS

STARTING FROM 6 NOV 2021

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
CONVENOR

MS. MAHIMA
CO-CONVENOR

DR. ANJANA LOHAN
PRINCIPAL

Skill Oriented Cowe on Basic Components of Physics S.D. Mahila Mahavidyalya, Narwana Participant Attendance Sheet: - D.S.C. II not year from 262 Nov 2021 to 11 Dec 2021

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12:02 pm

Skill oriented certificate course

Topic- Basic components of Physics

Session - 2021-2022.

M.M = 20.

Time= 1 hour

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

Ques1. (a) What is diode?

- (b) What is capacitor?
- (c) What is inductor?
- (d) What is the full form of PCB.

 $1 \times 4 = 4$

- Ques 2. What is bread board? Difference between protoboard and bread board?
- Ques 3. What is multimeter? How to use it?
- Ques 4. Write the name of 8 basic electronic components with symbol?
- Ques 5. What is PCB? Where is it used?
- Ques 6. What is transistor? Explain the different types of transistors?

 $4 \times 4 = 16$

Soloina

S.D.	MAHILA	MAH	IAVI	DYALYA,	NARWAN	11 - 2022 1 A
oli No. 🎝	a)91011003 Clas	B. B. Sc	TI not	SecSi	ubject	

Signature.... L Nisha (a) Diode - An electrical component that only enables connent to travel in a single path. Capaciton > A Small rechargeable battery that stores energy in the form of an electrical charge. Inductor > It is a passive two terminal electrical component: that stores energy in a magnetic field when electric current flows through it. PCB -> Brinted circuit board. Consists of plastic Bread board > A bread board black holding a matrix of electrical Sockets of Size Suitable for gripping thin Connecting wine, compone come Component wines or the pins of transistors and coine, Component

S.D. MAHILA MAHAVIDYALYA, NARWANA

Roll No. 120191011015 Class B.Sc Trod Sec. Subject. Physics
Date
Qst-1 (a) Mns- Diode: - An electronic device in which the elections only.
(b) Mns- Capacitor: - A capacitor is a two-terminal electrical device that can store energy in the form of an electric charge.
(c) Ans- Inductor: - An inductor is a passive component that is used in most power electronic circuits to store energy in the form of magnetic energy when electricity is applied to it.
(d) Ans - PCB - Printed Circuit Board
Ost-2 Mns- BreadBoard: - A preadboard is a temporary test platform used to prototype and test electronic circuits
Protoboard (1) In protoboard, there is (1) Breadboard is less stable and durable stable.

Result of Certificate Colvisc class - B Sc II nd year Session - 2021-2022 Topic - Basic Components of Physics

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5.	120191015005	Sakiena	19	15	28
6.	120191015006	Nisha Rani	13	16	30
7.	120191015007	Ankita	17	18	35
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	120191015013	Balvinder	15	16	31
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	12019105015	Pinku	14	15	29
	12019105016	Khushi	15	15	30
	120191015017	Priya	16	15	31
	120191015018	Muskon	20	14	34
	20191015019	Amardeep	19	14	33
	120191015021	Anju	14	16	30
	120191015222	vandana	19	15	29
	120191015023	Tamama	15	17	32
	Present	21			
	Absent	0			
	Total	21			

Overview

Skill Oriented Course on Basic component of Physics **Session:- 2021-22**

The Certificate Course on Basic Component of physics Offered by the Department of Physics, Mrs. Nisha S.D.MM.V Narwana has conducted from 06 November 2021 to 11 December, 2021 with a batch of 21 students and 21 Students sucessfully 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. Shalu

Nayandeep, Anjana Lohan, Dr Principal Dr 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.

S D Mahila Mahavidyalya, Narwana Student Feedback Performa Name Class Roll Number Email Address 2021-2022 Session Phone No. Average Good Verv Excelle Good nt The content was easy to understand. It was well organised. It engaged the participants in learning. The Teacher was able to explain the activity. The level of communication of teacher with students The event made progress in accomplishing its goal. I found this event experience to be worthwhile. Suggesion कीर्स अल्यत लाभवायक वनाया जा सकता है। अतः इस प्रकार

Date

S D Mahila Mahavidyalya, Narwana

S D Mahila Mahavidyalya, N	larwar	าล		and the second s							
Student Feedback Perl	orma										
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S D Mahila Mahavidyalya, Narwana

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Student Feedback Perf	orma			
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S D Mahila Mahavidyalya, Narwana Student Feedback Performa Name 20191011019 Class **Roll Number Email Address** 2021-2022 Session Average Phone No. Good Very Excelle Good nt The content was easy to understand. It was well organised. It engaged the participants in learning. The Teacher was able to explain the activity. The level of communication of teacher with students The event made progress in accomplishing its goal. I found this event experience to be worthwhile. जो टिल्प्सिट्स महाविद्यालय में आयोजित किए गए थे। उन्हों हमें तर idea और शिम्ना मितती हैं। इसे हमें Future के तिरु प्रेरणा मित रही हैं। सेसे टिल्प्सिट होते रहने न्यादिए। Suggesion

Date



NARWANA (JIND)

(AFFILIATED TO CH. RANBIR SINGH UNIVERSITY, JIND)



Certificate of Participation

This is to certify that Miss NISHA RANI of Class B.Sc. II Participated in Basic Components of Physics Certificate Course (Session 2021-22) Course for a duration of 30 hours organized in College Campus by Science Department.

2900/2

Convener

Nisha

Co-Convener

Duns

Principal



NARWANA (JIND)

(AFFILIATED TO CH. RANBIR SINGH UNIVERSITY, JIND)



Certificate of Participation

This is to certify that Miss RAVINA of Class B.Sc. II Participated in Basic Components of Physics Certificate Course (Session 2021-22) Course for a duration of 30 hours organized in College Campus by Science Department.

2800/3

Convener

Nisha

Co-Convener

Juns

Principal



NARWANA (JIND)

(AFFILIATED TO CH. RANBIR SINGH UNIVERSITY, JIND)



Certificate of Participation

This is to certify that Miss ANJALI of Class B.Sc. I Participated in Basic Components of Physics Certificate Course (Session 2021-22) Course for a duration of 30 hours organized in College Campus by Science Department.

20073

Convener

Nisha

Co-Convener

Juns

Principal



NARWANA (JIND)

(AFFILIATED TO CH. RANBIR SINGH UNIVERSITY, JIND)



Certificate of Participation

This is to certify that Miss ALISH of Class B.Sc. II Participated in Basic Components of Physics Certificate Course (Session 2021-22) Course for a duration of 30 hours organized in College Campus by Science Department.

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Convener

Nisha

Co-Convener

Juni

Principal

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