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## SHANTI DEVI ARYA MAHILA COLLEGE

Dinanagar (Distt. Gurdaspur)-143531

ESTD. 1968

Affiliated to GNDU, Amritsar | A Multi-Faculty Post-Graduate Women College

Re-Accredited by NAAC with 'A' Grade

College with Potential for Excellence Status by UGC, Green Champion Award by MGNCRE (Govt. of India)



## MEMORANDUM OF UNDERSTANDING

Between

**SHANTI DEVI ARYA MAHILA COLLEGE**

**Dinanagar, Gurdaspur**



&

**OHRI NURSERY**

**Golden Avenue Colony, Dinanagar**

143531



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### MEMORANDUM OF UNDERSTANDING (MoU)

This Memorandum of Understanding ("MoU") is between Shanti Devi Arya Mahila College, Dinanagar and Ohri Nursery, Dinanagar.

Shanti Devi Arya Mahila College, Dinanagar, hereinafter referred to as "Party A" and Ohri Nursery, hereinafter referred to as "Party B" recognize the importance of promoting education and skill development in the field of Botany and Agriculture.

Party A seeks to enhance its educational offerings by providing practical training to students and Party B is a renowned grower and supplier of all kinds of plants.

Both parties wish to collaborate to provide quality education to students and spread environmental awareness in society.

Therefore, both the beneficiary parties agreed as follows:

#### Purpose

The purpose of this MoU is to establish a collaborative partnership between Party A and Party B to promote environmental awareness, environmental sustainability and green initiatives. Students of Botany will also be benefitted by the technical training provided to them.



01875-220344, 221382



sdamcollegednn1968@gmail.com



shantidevicollege.org.



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### **Collaborative Activities:**

- a. Tree Plantation Initiatives- Party B agrees to provide saplings and technical support for tree plantation initiatives organized by Party A within its campus and surrounding areas.
- b. Educational Workshops- Party A agrees to organize educational workshops, seminars and awareness programs in local and surrounding areas on topics related to seedling cultivation, fertilizer management of vegetable crops, organic farming, horticulture practices, environmental conservation, gardening and sustainable living with the participation and support of Party B.
- c. Exchange Programs- Party B agrees to facilitate visits and exchange programs for students and faculty of Party A, providing them with opportunities to gain practical experience in nursery management, seedling cultivation, organic farming, plant propagation and related activities.
- d. Community Engagement- Party A and Party B agree to jointly engage with the local community to promote environmental awareness and encourage participation in green initiatives, such as community tree plantation events, gardening workshops and clean-up drives.
- e. Promotion of Native Species- Both parties agree to prioritize the propagation and promotion of native plant species in their respective activities with the aim of conserving local biodiversity and supporting ecosystem health.

### **Funding:**

This MoU is not a commitment of funds by one partner organization to the other partner organization's activities.



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### **Duration:**

This MoU shall come into effect on the date of its signing by both parties and shall remain in force for a period of 12.03.2018 to 11.03.2021 (Two year and one year of Extension)], unless terminated earlier by mutual agreement.

Name of organisation	Date of signed MOU	Duration of MOU
Ohri Nursery, Dinanagar	12/03/2018	3 Years

### **Amendments:**

Any amendments or modifications to this MoU shall be made in writing and signed by authorized representatives of both parties.

### **Termination:**

Either party may terminate this MoU by providing one month notice written notice to the other party. Termination shall not affect any ongoing collaborative activities unless mutually agreed otherwise.

IN WITNESS WHEREOF, the undersigned, duly authorized representatives of Shanti Devi Arya Mahila College, Dinanagar and Ohri Nursery, Dinanagar have executed this MoU as of the date first above written.

For OHRI NURSERY  
 Director *Vishwinder*  
 PROP.  
 Ohri Nursery, Dinanagar

  
 Principal  
 Shanti Devi Arya Mahila College  
 Dinanagar (Gurdaspur)  
 Principal  
 Shanti Devi Arya Mahila College, Dinanagar

## Report on activities (2018-2021)

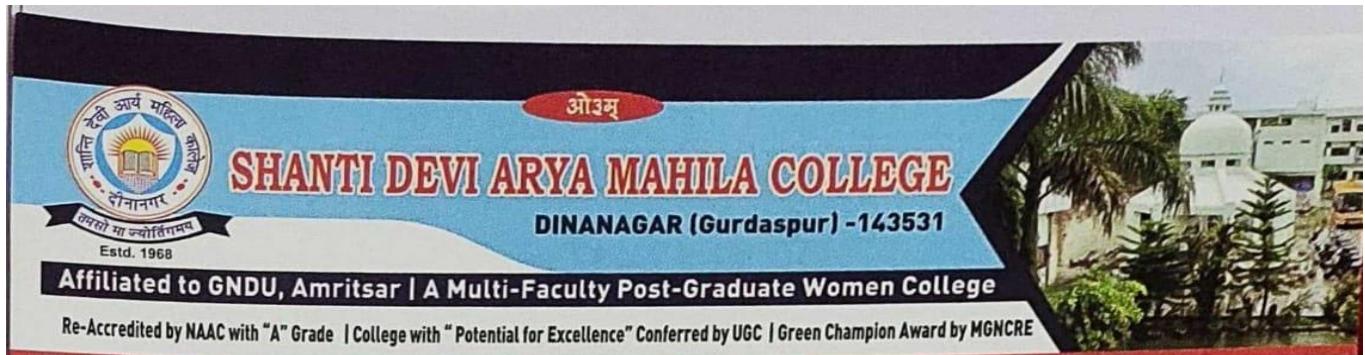


### LIST OF ACTIVITIES

SNO.	NAME OF ACTIVITY	START DATE	END DATE	VENUE	NO. OF PARTICIPANTS
1.	FIELD VISIT	20/09/2018	20/09/2018	OHRI NURSERY, DINANAGAR	15
2.	EXPLORATION TOUR	28/01/2019	28/01/2019	OHRI NURSERY, DINANAGAR	10
3.	HANDS ON TRAINING ACTIVITY	10/10/2019	10/10/2019	SHANTI DEVI ARYA MAHILA COLLEGE, DINANAGAR	20
4.	ON SITE LEARNING ACTIVITY	13/03/2021	13/03/2021	OHRI NURSERY, DINANAGAR	15

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## Field visit – Ohri Nursery, Dinanagar



Ref. No. 4647-SD-A/Gen

Dated 19/9/2018

To  
The Proprietor  
Ohri Nursery,  
Dinanagar

Subject-Regarding field visit to Ohri Nursery, Dinanagar

Respected Sir,

We writing regarding a proposed field visit to Ohri Nursery located in Dinanagar on 20/09/2018. Students of B.Sc. Medical and Biotechnology will go on this field visit as part of their curriculum. Two faculty members, one from each department will accompany the students. We assure you that all the necessary precautions will be taken to ensure the safety and well-being of the students during the visit.

Thanking you,

Accompanying Teacher:

Dr. Sushma Gupta

Mrs. Mamta Kashyap

Principal  
Shanti Devi Arya Mahila College  
Dinanagar (GSP.)

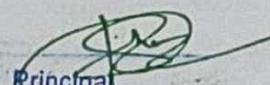
## CIRCULAR

Date- 17/09/2018

Subject - Field visit to Ohri Nursery, Dinanagar

Dear students,

As part of the curriculum, we are pleased to inform you that the Department of Botany and Biotechnology is going to conduct a field trip to 'Ohri Nursery, Dinanagar' on 20/09/2018 at 9:00AM for students of B.Sc. Med (2nd year) and B.Sc. BT (1ST year). Attendance is compulsory for all the students.



Principal  
Shanti Devi Arya Mahila College  
Dinanagar (GSP.)

## **Report of field visit to Ohri Nursery, Dinanagar**

Institute	Shanti Devi Arya Mahila college, Dinanagar
Department	Botany and Biotechnology
Activity	Field visit
Date	20/09/2018
Time	9:00 AM
Class	BSc (med) 2nd year BSc (BT) 1st year
Participants	15
Faculty members	02

On **20/09/2018**, Botany and Biotechnology Department of Shanti Devi Arya Mahila college, Dinanagar organized a field visit to Ohri nursery, Dinanagar aimed to provide students with hands-on experience and practical knowledge about different plant families included in their curriculum. Upon arrival, students were greeted by nursery staff who provided an overview of the nursery's operations and the significance of plant diversity. Mr. Baldev Singh led students through the nursery, highlighting different sections of the plants including ornamental plant, medicinal plants, trees, indoor plants, succulents etc. Students were also given knowledge about plants such as diversity, morphology, vegetative and reproductive structure, and growth patterns. For practical experience students were given opportunity to observe, touch, and smell different types of plant by themselves, enhancing their theoretical knowledge.

## Students exploring Angiosperm section



## Students were guided to Xerophyte section

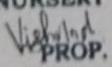


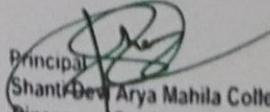
**OBSERVATION**- Throughout the tour, students engaged in interactive sessions with the guide, asking questions and sharing observations to deepen their understanding of plants. With this exposure students learned to observe, identify and categorize plants based on characteristics. Students also learned about the morphological diversity and ecological roles of different plant families, including their contributions to habitat diversity, soil health, and ecosystem resilience.

**OUTCOME** - The field visit to Ohri nursery, Dinanagar provided students with a valuable opportunity to explore the rich diversity of plant life and deepen their understanding of plant families and their significance. By combining practical experience with theoretical knowledge, the visit enhanced students' appreciation for the natural world and inspired a deeper curiosity towards plant sciences.

## **PARTICIPANTS:**

<b>PARTICIPANTS</b>		
S NO.	NAME	SIGNATURE
1.	JANVI MAHAJAN	Janvi
2.	ANSHU	Anshu
3.	NAMARTA SHARMA	Namarta
4.	ANJALI	Anjali
5.	SUKHMANPREET KAUR BHINDER	Sukhman
6.	SAPNA HANS	Sapna
7.	ASHIMA BABAR	Ashima
8.	RUPALI KUMARI	Rupali
9.	MOUSAM SHARMA	Mousam
10.	MANPREET KAUR	Manpreet
11.	NIVEDITA	Nivedita
12.	KAVNEET KAUR	Kavneet
13.	SWATI SALARIA	Swati
14.	AKANKSHA SHARMA	AKanksha
15.	ISHA	Isha

For OHRI NURSERY  
 Director   
 OHRI NURSERY, DINANAGAR

  
 Principal  
 Shanti Devi Arya Mahila College  
 (Dinanagar, Gurdaspur)  
 Principal  
 Shanti Devi Arya Mahila College, Dinanagar

## Exploration tour - Ohri nursery, Dinanagar



Ref. No. 4771:SD.A/Gen

Dated. 25/01/19

To  
The Proprietor,  
Ohri Nursery,  
Dinanagar

Subject- Regarding exploration tour to Ohri Nursery, Dinanagar

Respected Sir,

We are writing regarding a proposed Exploration tour to Ohri Nursery with our students on 28/01/2019. The purpose of this visit is to facilitate the selection and purchase of plants for beautifying our college premises. Students of B.Sc. Med 3 year will participate under supervision of two faculty members from Science Department. We assure you that all the necessary precautions will be taken to ensure the safety and well-being of the students during the visit.

Thanking you,

Accompanying Teacher:

Dr. Sushma Gupta

Mr. Mohit Aggarwal

Principal  
Shanti Devi Arya Mahila College  
Dinanagar (GSP.)

## **Report of Exploration tour to Ohri Nursery, Dinanagar for selection of plants for college premises**

Institute	Shanti Devi Arya Mahila college, Dinanagar
Department	Botany
Activity	Exploration tour
Date	28/01/2019
Time	10:00 AM
Class	BSc (med) 3rd year
Participants	10
Faculty members	02

On **28/01/2019**, a group of 10 students from Shanti Devi Arya Mahila College, Dinanagar embarked on an exploration tour to Ohri nursery as part of an initiative to enhance the greenery and aesthetics of our college premises. A briefing session was organized where Students were briefed by Mr. Baldev Singh on the types of plants suitable for the college environment, considering factors such as climate, soil conditions, and maintenance requirements. The main objective was to select and purchase suitable plants to enrich the environment and promote sustainability.

**Key learning-** Upon arrival, nursery staff provided an overview of the nursery's offerings and guided them through the various sections. Students actively engaged in selecting a diverse range of plants, including flowering shrubs, ornamental grasses, and indigenous species known for their resilience and low maintenance. After that, Nursery staff conducted an educational session on plant care, including watering schedules, soil preparation, and pest management techniques. Students had the opportunity to ask questions, seek advice, and learn about the environmental benefits of incorporating green spaces into urban settings.

## **STUDENTS EXPLORING DIFFERENT SECTIONS OF NURSERY**



## **STUDENTS ENGAGED IN LOADING ACTIVITY**



## **OUTCOME -**

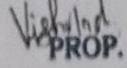
Keeping in mind, the suitability, aesthetic importance, and budget the variety of plants were selected. Suitable transportation arrangements were made to ensure the safe transfer of plants from the nursery to the college premises. Students actively participated in loading and unloading of plants. Under the guidance of faculty members, students planted the selected plants contributing to campus beautification efforts.

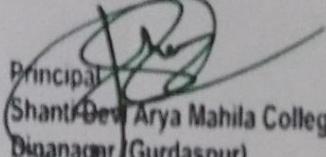
The field trip to the plant nursery provided students with invaluable hands-on experience in selecting, purchasing, and planting plants for the college premises. Through active engagement and collaboration, students gained practical knowledge and the importance of green spaces in fostering a sustainable campus. This initiative not only enhances the aesthetic value of our college but also promotes a culture of environmental consciousness and responsibility among students and staff.

## **PARTICIPANTS:**

### **PARTICIPANTS**

SNO.	NAME	SIGNATURE
1.	PRIYANKA SAINI	Priyanka
2.	SONIA	Sonia
3.	HARWINDER KAUR	Harwinder
4.	PARKRITI	Parkerti
5.	TAMANNA DEVI	Tamanna
6.	SHIVANI	Shivani
7.	SONIA	Sonia
8.	KALPANA	Kalpana
9.	SNEHA SAINI	Sneha

For OHRI NURSERY  
Director   
Ohri Nursery, Dinanagar

  
Principal  
Shanti Devi Arya Mahila College  
Dinanagar (Gurdaspur)  
Principal

Shanti Devi Arya Mahila College, Dinanagar

## **Hands on training activity at college premises**

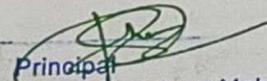
### **CIRCULAR**

Date – 07/10/2019

Subject – Hands on training activity.

Dear students,

This is to inform that the Department of Botany and Biotechnology is going to conduct a training session for the students of B.Sc. Med and BT (3<sup>rd</sup> year) to provide them with practical training and hands-on experience to plant activities at college premises Dated 10/10/2019 at 10:00AM.



Principal  
Shanti Devi Arya Mahila College  
Dinanagar (GSP.)

## **Report of Hands-on training activity on various plants propagation techniques**

Institute	Shanti Devi Arya Mahila college, Dinanagar
Department	Botany and biotechnology
Activity	Hands on Training
Date	10/10/2019
Time	10:00AM
Class	BSc (med) and BT 3rd year
Participants	20
Faculty members	02

On **10/10/2019**, Botany and Biotechnology department of Shanti Devi Arya Mahila college, Dinanagar organized a training session at college premises to provide students with practical training and hands-on experience to plant activities. This training session aimed at inculcating theoretical knowledge with real-world applications, enhancing students' understanding of plant biology and propagation techniques. For that purpose, Mr. Pawan Singh from Ohri nursery, Dinanagar was invited.

**Objective -** As part of the curriculum, the main objective of the session was to demonstrate the basic nursery's operations like plant propagation techniques, nursery management techniques, hydroponics process, green house, soil maintenance etc.

### **Key learning-**

- Plant propagation methods:

Learn to propagate plants using seeds and vegetative cutting.

- Hydroponics process

Identity unique methods of growing using nutrient medium.

- Green house

Understand the mechanics of green house and their importance for plants.

- Soil maintenance

Learn to identify different types of soil and their productivity.

- Nursery management techniques

## **TRAINING SESSION ON PROPAGATION TECHNIQUES**

### **STEM CUTTING**



## **SEED PROPAGATION**



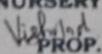
### **Outcome –**

The field visit to the plant nursery proved to be a valuable learning experience for students, bridging the gap between theory and practice in education. They gained practical skills and hands-on experience. Overall, the field visit was a success, empowering students with the knowledge and confidence.

## PARTICIPANTS:

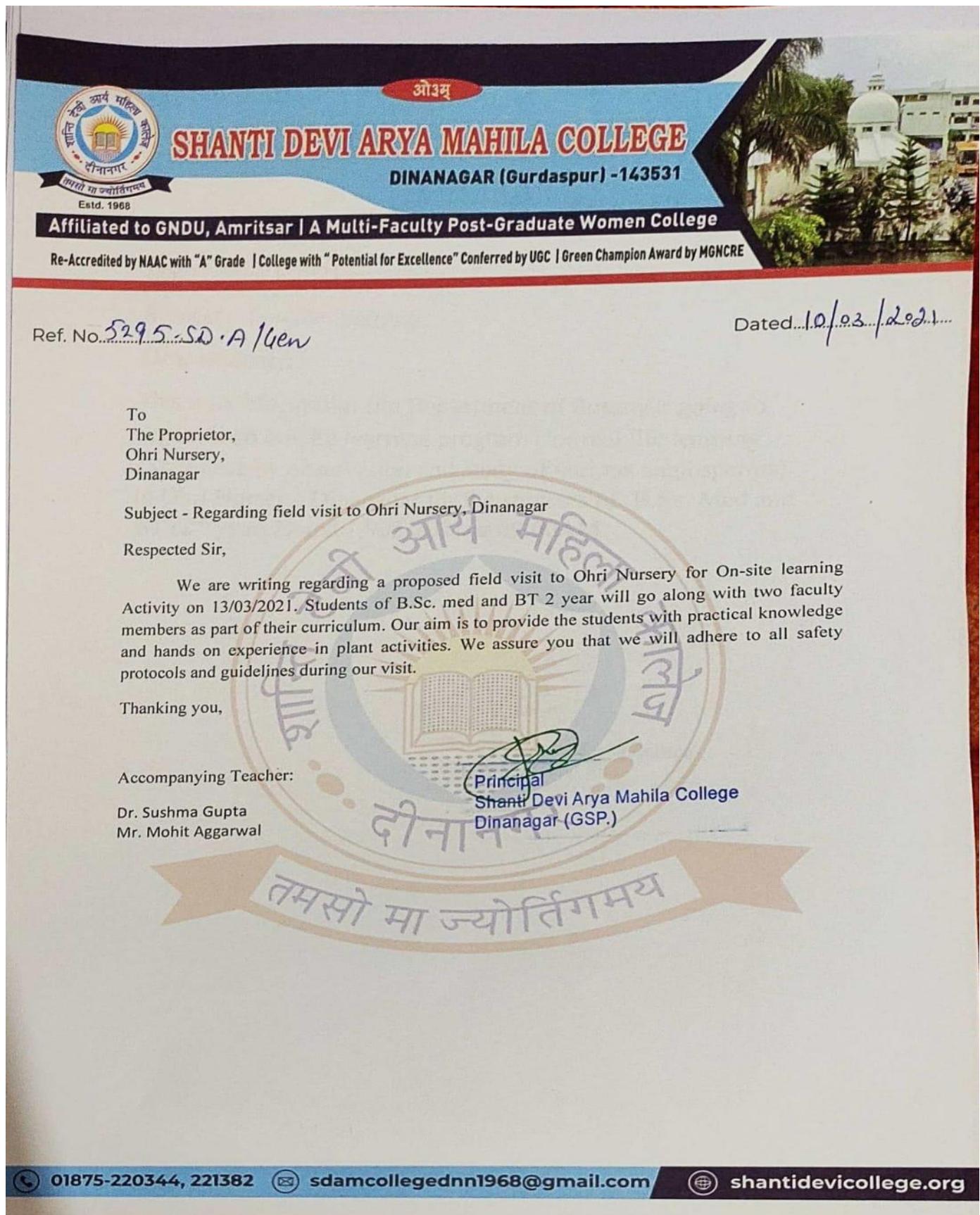
### PARTICIPANTS

S NO.	NAME	SIGNATURE
1.	GAGANDEEP KAUR	Gagandeep Kaur
2.	LOVEPREET KAUR	Lovepreet
3.	APARNA SAINI	Aparna
4.	AMAN SHARMA	Aman
5.	URVASHI	Urvashi
6.	JASNOOR KAUR KALER	Jasnoor
7.	PARMINDER KAUR	Parminder kaur
8.	LOVELEEN KAUR	Loveleen Kaur
9.	AMISHA	Amisha
10.	JANVI MAHAJAN	Janvi Mahajan
11.	ANSHU	Anshu
12.	NAMARTA SHARMA	Namrata Sharma
13.	ANJALI	Anjali
14.	SUKHMANPREET KAUR BHINDER	Sukhmanpreet Kaur Bhinder
15.	SAPNA HANS	Sapna Hans
16.	RUBINA DHIMAN	Rubina Dhiman
17.	ADITI	Aditi
18.	SHIVALIKA	Shivalika
19.	SUNAINA THAKUR	Sunaina
20.	SIMRANJEET KAUR	Simranjeet Kaur

For OHRI NURSERY  
 Director   
 Ohri Nursery, Dinanagar

  
 Principal  
 Shanti Devi Arya Mahila College  
 (Dinanagar, Gurdaspur)  
 Principal  
 Shanti Devi Arya Mahila College, Dinanagar

## On site learning activity - Ohri nursery, Dinanagar



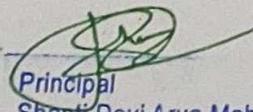
## CIRCULAR

Date – 09/03/2021

Subject – On-site learning.

Dear students,

This is to inform that the Department of Botany is going to organize an on-site learning program (for real life learning experience by observation and study of various angiosperms) to Ohri Nursery, Dinanagar for the students of B.Sc. Med and BT (2<sup>nd</sup> year) Dated 13/03/2021 at 09:00AM.



Principal  
Shanti Devi Arya Mahila College  
Dinanagar (GSP.)

## **Report of on-site learning activity for Study of common Angiosperms**

Institute	Shanti Devi Arya Mahila college, Dinanagar
Department	Botany
Activity	On site learning
Date	13/03/2021
Time	09:00 AM
Class	BSc(med) and BT2nd year
Participants	15
Faculty members	01

On **13/03/2021**, Botany department of Shanti Devi Arya Mahila College, Dinanagar planned a visit to Ohri nursery, Dinanagar. After lockdown period, this seemed to be the best possible way to motivate students. The main purpose of the visit was real life learning by observation and study of various angiosperms, commonly known as flowering plants. Mr. Neeraj and Mr. Baldev Singh guided the students throughout the visit.

### **Objective:**

The objective of the visit was to observe and study the morphology, diversity, and adaptations of angiosperms.

#### Observations and Findings:

##### **1. Morphology:**

- Observed various forms of leaves, flowers, and fruits among different species.
- Noted the diversity in leaf shapes, sizes, and arrangements.
- Examined flowers of different colors, sizes, and structures, including monocotyledonous and dicotyledonous flowers.

## **2. Diversity:**

- Identified a wide range of angiosperm species, including trees, shrubs, and herbs.
- Observed how environmental factors influence the distribution of species within the nursery.

## **3. Adaptations:**

- Investigated various adaptations such as thorns for protection, specialized roots for water absorption, and nectar guides for pollination.
- Examined the role of flowers in attracting pollinators and ensuring reproduction.

### **Angiosperm section**



## **OUTCOME –**

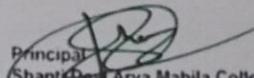
The visit to Ohri Nursery provided valuable insights into the morphology, diversity, and adaptations of angiosperms. By observing various species and their characteristics, a deeper understanding of plant biology and ecology was gained. Overall, the visit was informative and contributed to the understanding of angiosperm diversity and ecology.

## **PARTICIPANTS:**

### **PARTICIPANTS**

SNO.	NAME	SIGNATURE
1.	KOMAL SHARMA	Komal
2.	RAVINDER KAUR	Ravinder Kaur
3.	PRIYA SHARMA	Priya Sharma
4.	RIYA SAINI	Riya
5.	SIMRAN KAUR	Simran
6.	MANDEEP KAUR	Maneep Kaur
7.	SHARDA DEVI	Sharda Devi
8.	KARINA	Karina
9.	SIMRANJIT KAUR	Simranjit
10.	PRIYANKA JAGGI	Priyanka
11.	SHEETU DEVI	Sheetu Devi
12.	PARIKA GUPTA	Parika
13.	KOMAL	Komal
14.	SHRUTI	Shruti
15.	ANKITA SAINI	Ankita.

**For OHRI NURSERY**  
 Director   
 Ohri Nursery, Dinanagar

  
 Principal  
 Shanti Devi Arya Mahila College  
 (Dinanagar, Gurdaspur)  
 Principal  
 Shanti Devi Arya Mahila College, Dinanagar