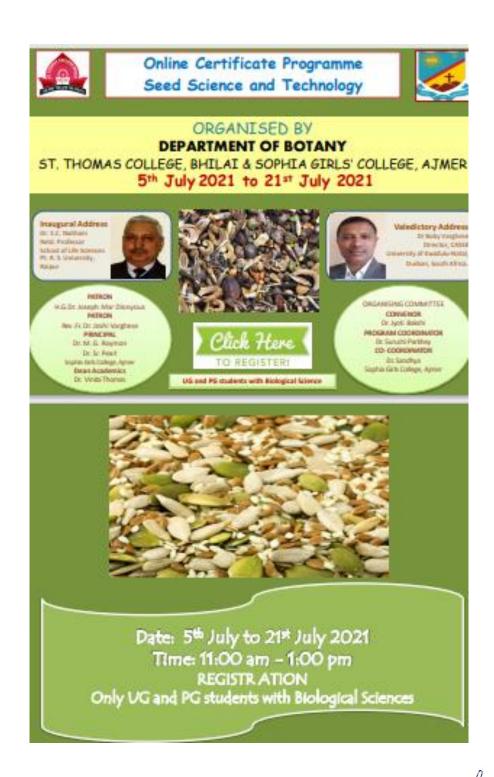
# SOPHIA GIRLS' COLLEGE (AUTONOMOUS), AJMER



# **DEPARTMENT OF BOTONY**

2021-22



Head
Department of Botany
Sophia Giris: College
(Autonomous), Ajmer

Name of Department - Botany

Name of the Activity – Online Certificate Programme on Seed Science & Technology

**Date of activity** -  $5^{th}$  -  $21^{st}$  July 2021

# **Number of Participants - 116**

Venue - Online (Google Meet)

# **Details of Resource Persons-**

Date	Topics	Resource Person	
05.07.21	Introduction to Seed Science	Prof. S.C. Naithani, Seed Biology Lab. SoS Life	
Monday		Sciences, Pt RSU, Raipur, 7587207043	
06.07.21	Floral Biology: Fertilization, Biology of	Dr. Jyoti Bakshi, Assistant Prof.,	
Tuesday	Seed Development & Maturation	St. Thomas College, Bhilai	
	Experiments on structure of seed		
07.07.21	Seed Germination, Germination tests	Mrs. Annu Bhardwaj, Assistant Prof.	
Wednesday		Sophia Girls College, Ajmer, 7976035388	
08.07.21	Seed Dormancy- Physiology and	Dr. Sandhya, HoD Botany Department,	
Thursday	Methods of breaking dormancy	Sophia Girls College, Ajmer, 9460478919	
	Dormancy breaking tests		
09.07.21	Seed Quality Assessment Part I	Dr. Suruchi Parkhey, Assistant Prof.	
Friday	Seed Moisture Content, Seed Viability	St. Thomas College, Bhilai, 9926125262	
10.07.21	Seed Quality Assessment Part II	Dr. Suruchi Parkhey, Assistant Prof.	
Saturday	Membrane Perturbation (Leachetes)	St. Thomas College, Bhilai, 9926125262	
	Seed Vigor Test, Seed purity Test		
12.07.21	Post -harvest: - Storage & Deterioration	Dr. Keshav Kant Sahu, HoD, SoS in Biotechnology,	
Monday		Pt. RSU Raipur, 9425228966	
13.07.21	Seed Ageing: - Understanding	Dr. Balram Sahu, Assistant Prof.	
Tuesday	Mechanisms & Kinetics & Physical	ITM University, Raipur, 9165741152	
	Changes		
14.07.21	Seed Ageing: - Mechanisms & Kinetics	Dr. Balram Sahu, Assistant Prof.	
Wednesday	Biochemical & Molecular Changes	ITM University, Raipur, 9165741152	
15.07.21	Germplasm Conservation and	Dr. Ademola Emmanuel Adetumji, School of Life	
Thursday	Preservation in-situ Seed Banks	Sciences, University of KwaZulu- Natal, Durban,	
		South Africa	
16.07.21	Principles of Quality Seed Production	Dr. Subrata Sharma, Associate Professor, Plant	
Friday	Factors affecting quality seed	Physiology, College of Agriculture, Balaghat	
	production		
17.07.21	Causes of Varietal Deterioration &	Dr. Amita Sharma	
Saturday	Maintenance of Genetic Purity During	Assistant Professor, Plant Physiology, College of	
	Seed Production	Agriculture, Balaghat	

19.07.21	Seed Pathology	Dr. Vinita Thomas, HoD	
Monday	Seed Health Test	P.G. Department of Botany, St. Thomas College,	
		9826132880	
20.07.21	Seed Certification & Marketing	Dr. Alok Sahu, Senior Scientist	
Tuesday	Rules & Regulations	Virology Lab, Govt. Medical College, Mahasamund	
21.07.21	Feedback & Test	Dr. Bobby Varghese Director, Centre for Academic	
Wednesday	Valedictory Session	Success in Science and Engineering, University of	
		KwaZulu-Natal, Durban, South Africa.	

# Objective of the Activity-

Dept. of Botany, Sophia Girls' College, Ajmer in collaboration with St. Thomas College, Bhilai, Chhattisgarh organised this 15 days Certificate Programme on Seed science & technology with the following objectives-

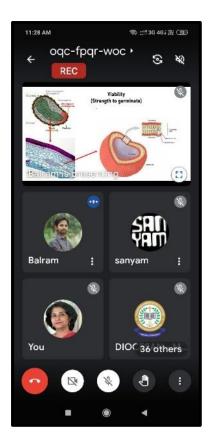
- To familiarise them with the role of seed in agriculture and forestry
- To introduce to basic technology used in seed industry
- To encourage the students, learn beyond specified syllabus.

#### **Learning Outcome –**

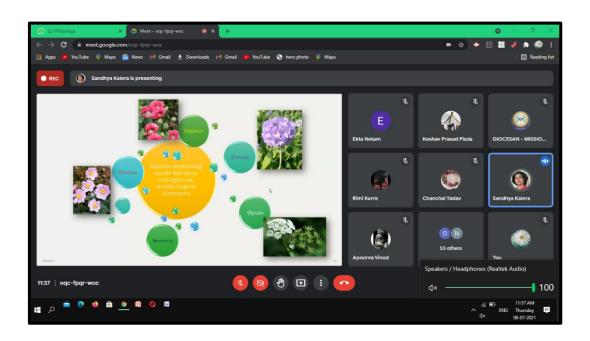
The students will be able to-

- 1. Understand the basics of Seed Morphology and Physiology.
- 2. Initiate research associated with seed storage and seed health.
- 3. Assess the seed quality for certification.

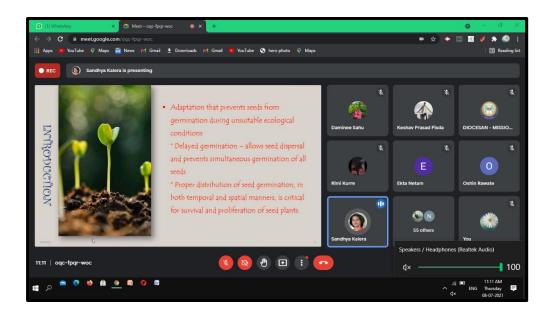
Department of Botany Sophia Girls: College (Autonomous), Ajmer







Department of Botany Sophia Girls College (Autonomous), Ajmer





Department of Botany Sophia Girls College (Autonomous), Ajmer

#### **CERTIFICATES**





Head Department of Botany Sophia Girls' College (Autonomous), Ajmer



Head
Department of Botany
Sophia Girls' College
(Autonomous), Aimer

Name of Department - Botany (Orchid – The Botany Forum)

Name of the Activity - Flex Making Competition

**Date of activity** - 30<sup>th</sup> July 2021

**Number of Participants - 33** 

Venue - Online

### Objective of the Activity-

The Flex making competition was organized by Orchid – The Botany Forum, for which 4 themes were given. This will help in developing their creative and imaginative skills as well as they will learn something new which is not a part of their syllabus.

# Learning Outcome -

The students will be able to develop creative skills and recall economic importance and other interesting facts about plants.





Department of Botany Sophia Girls: College (Autonomous), Ajmer

#### **CERTIFICATES**



# Department of Botany



Orchid - The Botany Forum

SOPHIA GIRLS' COLLEGE (AUTONOMOUS), AJMER

This is to certify that

Saniya Khan of B.Sc. Bio. Sem II

participated in Flex Making Competition

held on 30th July 2021 & secured Second position.

Candhya In-charge

Principal

Sr. Pearl



# Department of Botany



Orchid - The Botany Forum

SOPHIA GIRLS' COLLEGE (AUTONOMOUS), AJMER

This is to certify that

Sr. Jobitha of B.Sc. Bio. Sem II

participated in Flex Making Competition

held on 30th July 2021 & secured First position.

In-charge

Principal

Sr. Pearl

Head
Department of Botany
Sophia Girls: College
(Autonomous), Ajmer

### 3. Collage Making Competition



# Rules for Collage Making-

- 1.Collage Making time 1 hour
- Paper, Magazines, Glue, Sketch pens, Pen colours etc. to be brought by participants.
- 3. Use of Scissor is not allowed.
- 4.Theme for the collage "CELEBRATING FEMINISM"
- 5. Disqualification- On exceeding time or deviating from the theme or unsatisfactory explanation to judges

\*Click to Register https://forms.gle/6jPuBBUkhnkLjQiR7 last date to register - 15/ 11/ 2021

\*For queries contact -Dr. Sandhya Co-ordinator Gender Sensitization Cell 9460478919 (Department of Botany) Name of Department - Botany (Orchid - The Botany Forum) & Samvedna- The GSC

Name of the Activity - Collage Making Competition

**Date of activity** - 16<sup>th</sup> November 2021

**Number of Participants - 14** 

Venue - Fortunatus Indoor Stadium, Sophia Girls' College (Autonomous), Ajmer

# Objective of the Activity-

In collaboration with 'Samvedna'- The Gender Sensitization Cell, Orchid – The Botany Forum organized a Collage Making Competition on the theme 'Celebrating Feminism'.

### Learning Outcome -

This activity will help in developing the creative and imaginative skills of the students and also in expressing their feelings, thoughts and wishes using pictures and drawings. The students will develop a sense of appreciation and proud of being a woman.









#### 4. Exhibition on Medicinal Plants



**Name of Department -** Botany (Orchid – The Botany Forum)

Name of the Activity - Exhibition on Medicinal Plants

**Date of activity** - 18<sup>th</sup> November 2021

**Number of Participants - 114** 

Venue - Fortunatus Indoor Stadium, Sophia Girls' College (Autonomous), Ajmer

# Objective of the Activity -

Orchid – The Botany Forum organized an **Exhibition on Medicinal Plants** on 18<sup>th</sup> November 2021. This was organized to make the students aware of the medicinal value and unexplored potential of plants. There is no such plant on the Earth which has no medicinal value, so this activity would also make the students appreciate the diversity and healing properties of plants.

# Learning Outcome -

The students will be able to recall and explain the medicinal value of plants. They will also be able to identify the local plants of potential medicinal value.













#### 5. Online Botanical Excursion



Name of Department - Botany (Sophia Girls' College (Autonomous), Ajmer in collaboration with GNC of Arts, Science and Commerce, Mumbai)

Name of the Activity - Online Botanical Excursion

Date of activity - 6<sup>th</sup> December 2021

**Number of Participants - 65** 

**Venue -** Online (Google Meet Platform)

#### **Activity Coordinators -**

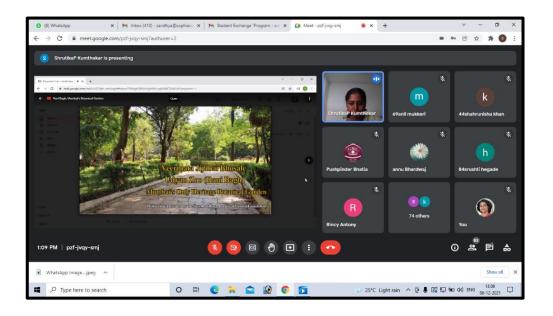
- 1. Dr. Shrutika Kumthekar, HOD, Dept. of Botany, GNC of Arts, Science and Commerce, Mumbai, 9819174496
- 2. Dr. Sandhya, HOD, Dept. of Botany, Sophia Girls' College (Autonomous), Ajmer, 9460478918
- 3. Mrs. Annu Bhardwaj, Assistant Prof., Sophia Girls' College (Autonomous), Ajmer, 7976035388

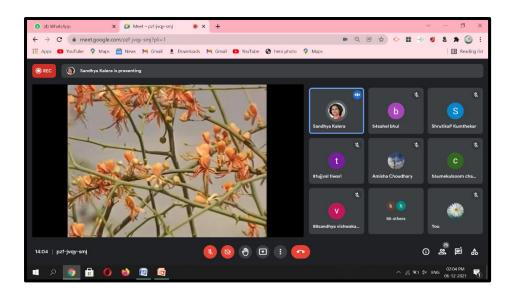
#### Objective of the Activity -

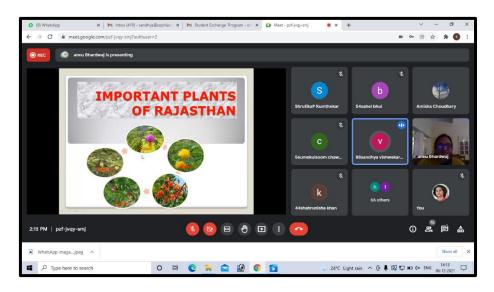
In Collaboration with Guru Nanak College of Arts, Science and Commerce, Mumbai, the Department organized an **Online Excursion** for the students of both the colleges. This Student Exchange Programme would contribute in sharing the knowledge about plant diversity of Rajasthan and Mumbai.

#### **Learning Outcome –**

The students will be able to compare the plant diversity of two regions (Mumbai & Rajasthan) with varied climatic conditions.









6. Educational Visit to 'Kisan Mela evam Sangoshthi'





Name of Department - Botany (Orchid – The Botany Forum)

Name of the Activity – Educational Visit to 'Kisan Mela evam Sangoshthi'

**Date of activity** – 5<sup>th</sup> March 2022

**Number of Participants - 54** 

Venue – Krishi Vigyan Kendra, Tabiji, Ajmer

#### Objective of the Activity -

Orchid – The Botany Forum organized an **Educational Visit to 'Kisan Mela evam Sangoshthi'** held at Krishi Vigyan Kendra, Tabiji, Ajmer on 5<sup>th</sup> March 2022. The aim of this visit was to provide the students an opportunity for experiential learning about different aspects of agriculture viz. Horticulture, Mushroom cultivation, Vermicomposting, Soil testing etc.

#### **Learning Outcome –**

The students will be able to

- 1. Analyze the various possibilities in the field of development of novel varieties of crops, legumes, fodder crops etc.
- 2. Gain an insight about organic farming, vermicomposting and apiculture.

Understand the significance of indigenous varieties of crops and other plant species.















### 7. Online Staff Student Exchange Program



SOPHIA GIRLS' COLLEGE (AUTONOMOUS)

AJMER

in collaboration with



GURU NANAK COLLEGE OF ARTS, SCIENCE & COMMERCE, MUMBAI

**DEPARTMENT OF BOTANY** 



# Topics:

- Recombinant DNA Technology
- Plant Tissue
   Culture

Dr. Sandhya, Dr. Shrutika 9460478919, 9819174496 **ANNOUNCES!** 

An Online STAFF STUDENT EXCHANGE PROGRAM

> JOIN US THIS WEEK

from -7th - 10th March 2022

at 1:00 - 2:00 pm

Prof. Sr. Pearl Principal, Sophia Girls' College (Autonomous), Ajmer

Dr. Pushpinder G. Bhatia Principal, Guru Nanak College, Mumbai Name of Department - Botany (Sophia Girls' College (Autonomous), Ajmer in collaboration with GNC of Arts, Science and Commerce, Mumbai)

Name of the Activity - Online Staff Student Exchange Program

**Date of activity** – 7<sup>th</sup> – 10<sup>th</sup> March 2022

# **Number of Participants –**

07 / 03 / 2022	08 / 03 / 2022	09 / 03 / 2022	10 / 03 / 2022
59	43	46	30

**Venue -** Online (Google Meet Platform)

#### **Activity Coordinators -**

- 1. Dr. Sandhya, HOD, Dept. of Botany, Sophia Girls' College (Autonomous), Ajmer, 9460478918
- 2. Dr. Shrutika Kumthekar, HOD, Dept. of Botany, GNC of Arts, Science and Commerce, Mumbai, 9819174496

#### Objective of the Activity -

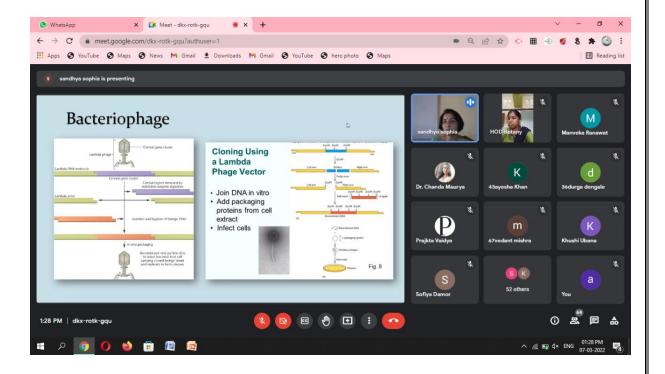
In Collaboration with Guru Nanak College of Arts, Science and Commerce, Mumbai, the Department organized a 4 days **Online Staff Student Exchange Program.** This Exchange Program will contribute in sharing of knowledge and expertise about Plant Tissue Culture and Recombinant DNA Technology.

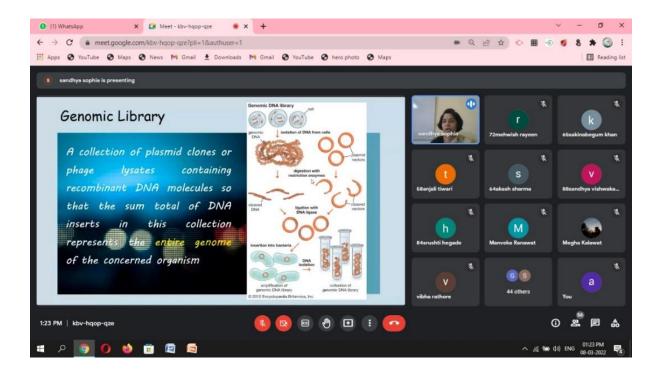
#### **Learning Outcome** –

The students will be able to

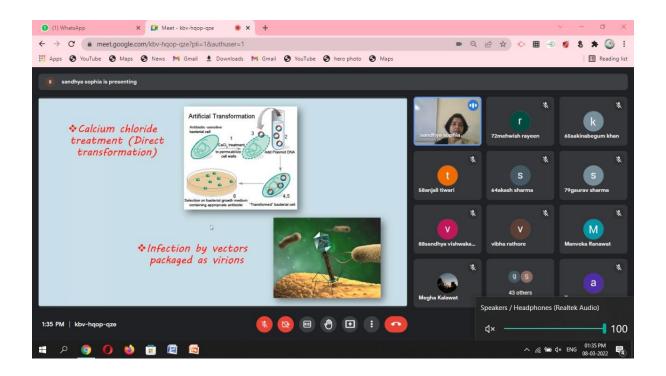
- 1. Illustrate the key steps and tools & technique of Recombinant DNA Technology.
- 2. Analyse the technique and applications of Plant Tissue Culture.

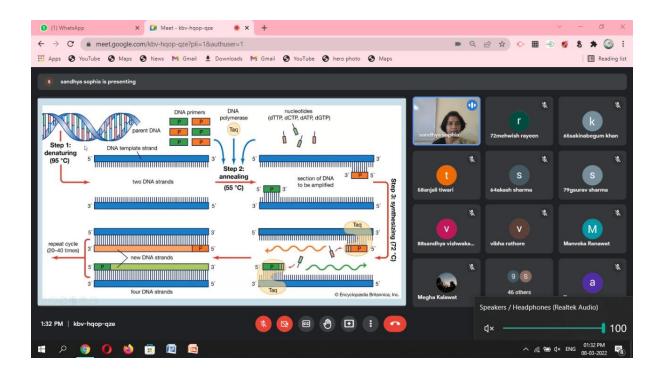
#### **DAY 1:**



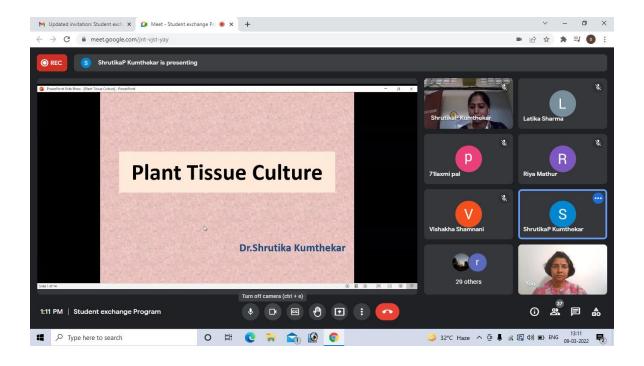


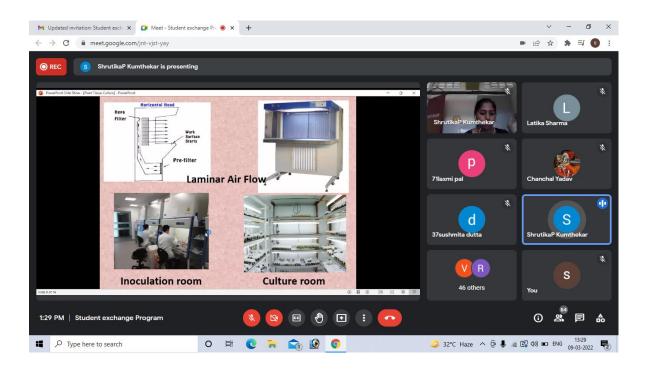
#### **DAY 2:**





#### **DAY 3:**





#### **DAY 4:**

