

Govt.Degree College for Women,Hussainialam,Hyderabad

Department of Botany

Certificate Course on "Terrace Gardening"

Duration: 15Hrs

Certificate Course . 1
Terrace Gardening .
2, 3, 4, 7, 8, 9, 10, 11
15 - June 2022.
In the department of Botany organised Certificate Course on "Terrace gardening" for 15 hrs Course duration from 03/06/2022 to 11/06/2022 with the permission of principal.
Objectives :-
- Terrace garden increase the amount of O₂ in the air & reduces sound pollution.
- To reduce overall heat absorption of building and insulate the building against heat.
- The Convenience of safe, pesticide-free healthy green and fresh fruits or vegetables.

Govt.Degree College for Women, Hussainialam, Hyderabad
Department of Botany
Registration List:

S.No.	Student Name	Group & Year	Signature
1.	Uzma fatima	I year	Uzma
2.	Syeda aysha begum	I year	Aysha
3.	Tanveer Bano	I year	Tanveer
4.	Sadiya Sullana	I year	Sadiya
5.	Limra	I year	Limra
6.	Sadiya Sullana azes	I year	Sadiya
7.	Neha Begum	I year	Neha
8.	Muskaan Begum	I year	Muskaan
9.	Uzma Sullana	I year	Uzma Sullana
10.	Safwara	I year	Safwara
11.	Sofia Same	II	Sofia
12.	Umama fatima	II	Umama
13.	khutsiya	II	khutsiya
14.	Farceda	II	Farceda
15.	Bara	II	Farceda
16.	Nausheen fatima	II	Nausheen
17.	Firdous Begum	II	Firdous
18.	Syeda Arsiya	II	Arsiya
19.	Muscefa fatima	I	Muscefa
20.	Zeenat. Parveen	I	Zeenat

Aims and objectives:

- To Study the type of terrace garden practices
- To study the types of plants and vegetables that are being preferred for growing in terrace gardens.
- To know the effective irrigation and waste management practices
- To know the types of fertilizers and pesticides are being used in the residential terrace gardens.
- To know the other health benefits the terrace gardening practices.

Content

➤ Why Terrace gardening

1. Healthy life by consuming organically cultivated fruits , vegetables of our choice on our terrace (Terrace to Table)
2. Stress buster activity
3. Living closer to Nature
4. Botanical knowledge to children
5. Avoiding of useless TV serials and making devils brain
6. Improves coordination between family members
7. Body exercise
8. Good nutritive value vegetables
9. Pollution free environment

➤ Where ???

- ✓ Terraces
- ✓ Balconies
- ✓ Kitchens
- ✓ Verticals
- ✓ Windows
- ✓ Bed rooms

➤ Crop selection based on sunlight

- ✓ 2 hours sunlight exposed area per day – Greens leafy vegetables (Palak , menthi , chukka , bachali , coriander , pudina , colocasia , etc..)
- ✓ 2-4 hours : Cabbage , CF , Lettuce , broccoli , brussels sprouts ,
- ✓ 4-6 hours : Tomato , gr chillies , brinjal , Gourds , Potato , carrot , bhendi , beans, all flower plants ,
- ✓ 6-8 hours : Papaya , fig , sapota , sithaphal , Munaga (Drum stick) , phalsa , water apple , star fruit , mehindi , curry leaf
- ✓ More than 8 hours : Mango , jamun , amla , banana

➤ **Selection of containers**

1. **Grow bags of different sizes**
2. **Curd buckets (Used)**
3. **Paint buckets (used)**
4. **Table desk top tray – Greens**
5. **HDPE drums**
6. **Thermo coal boxes**
7. **Silpaline bags**
8. **Earthen containers**
9. **Damaged water can bubbles**
10. **HDPE bags**

➤ **Selection of Seeds**

- **Local ? Desi seeds :: Agriculture university , Rajendranagar Dr Anitha 9440162396**
 - **Mr Bhanu 9347473654**
 - **IIHR – B'lore 7975395347**
 - **IIVR – Varanasi - 8933903662**
- **Hybrids seeds :: Any seeds shop at Basheerbagh**
- **Vivek seeds : 9030402425 basheer bagh**
- **Companies recommended :: Mahyco , Syngenta , Seminis , Namdhari , East west , Indo American , US seeds , Enza zaiden , VNR seeds**

➤ **Container filling**

➤ **Preparation of soil mixture-**

- ✓ **20% red soil – fine soil**
- ✓ **40% Vermi compost**
- ✓ **20% cocopeet**
- ✓ **5% neem cake or Mustard cake ,/ Bavsitin or Thimet Granules**
- ✓ **15% cow manure (well dried)**

➤ **Crop rotation patterns**

- **Never repeat the following crops in same Pot / Container which belongs to same botanical family immediately after completion of crop . Change the crop with some other family crop**
- **Solanaceae : Tomato , Brinjal , chillies , Potato**
- **Cucurbitaceae: All Gourds , cucumber , Melons**
- **Fabaceae / Leguminosae: All Beans , Green beans, green peas, southern peas, peanuts, soybeans. ...**
- **Malvaceae : Bhendi , Gongoora ,**
- **Rutaceae : Jasmine , curry leaf , Oranges ,**
- **Alliums: Onions, shallots, leeks, and garlic.**
- **Brassicacae: Broccoli, cauliflower, cabbage, turnip greens, radishes, Chinese cabbage.**

➤ **Watering**

- ✓ **Thin leave plants needs regular watering :: Palak , Tomato , brinjal , bhendi , curry leaf , gourds , mango , lemon grass , rose , pomegranate , corinader ,menthi , mint , star fruit etc..**

- ✓ **Thick leaf and wax coated leaf and narrow leaf plants needs less watering :: Fig , bachali , chukka , Fig , sapota , vamu leaf , rana phala , amla , sithaphal , papaya , tamarind , amla , jack , neredu , pudina , apple ber , water apple , etc..**
- ✓ **We can go for drip irrigation / rose can shower irrigation methods**

➤ **Use of shade nets**

✚ to get good quality vegetables in summer , where high temp prevails

- A. Use red color shade nets of 50% shade for all leafy vegetables
- B. Use green color shade nets of 50 to 75 % shade for all fruity vegetables like tomato , brinjal , chillies , bhendi , gourds , etc
- C. In rainy season – by using white colour poly film we can get good quality vegetables

➤ **Organic way of controlling pests and diseases :**

- Leaf and fruit eating caterpillars :
 - a. Soap and water :- Small amount of organic soap mix with warm water and spray
 - b. Spraying of Bacillus Thuringiensis .
 - c. Neem oil
 - d. Pepper and garlic mixture :-1 tsp pepper , 1 full garlic paste , 1 tsp liquid soap , 5 lit water – mix – keep for 24 hours – spray
 - e. Chilli spray :- 100 grams of chillies powder + 3 lit warm water + boil for 5 minutes , cool down , add 3 lit of cool water , 3 drops of soap water , spray on plants
 - f. Allow bird perching
 - g. Vinegar solution : 2 tsp vinegar + 4 lit of water and spray
 - h. Hand picking

Precautions -

1. Don't give excess water
2. Don't leave waste foods on terrae which attracts rats and damage the plants
3. Seed sowing depth is very important
4. Check expiry dates on seed packs
5. Take good quality inputs (vermi compost , neem cake , neem oil – 9642912267 , 9000076076,)
6. Plant as per sunlight hours
7. Don't copy and paste the planting systems
8. Change the soil mixture after every 3 crops – veggies
9. Give water during morning hours
10. Spray pesticides during evening hours
11. Spray fungicides during day hours
12. Don't give water during mid-hot day
13. Hand pollination at the time of opening of female flowers only
14. Harvest with a sharp blade . Don't pluck harshly
15. Ensure good drainage

Govt. Degree College for Women, Hussainia, Hyderabad

Department of Botany

Attendance Sheet

S.No.	Student Name	5/6	6/6	Group & Year	7/6	8/6	9/6	10/6	11/6	12/6
1.	Uzma Jalina	✓	✓		✓	✓	✓	✓	✓	✓
2.	Syedra ayesha begum	✓	✓		✓	✓	✓	✓	✓	✓
3.	Tanzeer Banu	✓	✓		✓	✓	✓	✓	✓	✓
4.	Sadiya Bularani	✓	✓		✓	✓	✓	✓	✓	✓
5.	Limra	✓	✓		✓	✓	✓	✓	✓	✓
6.	Sadiya Bularani	✓	✓		✓	✓	✓	✓	✓	✓
7.	Neha Begam	✓	✓		✓	✓	✓	✓	✓	✓
8.	Muskaan Begum	✓	✓		✓	✓	✓	✓	✓	✓
9.	Uzma Bularani	✓	✓		✓	✓	✓	✓	✓	✓
10.	Safoora	✓	✓		✓	✓	✓	✓	✓	✓
11.	Sofia Sami	✓	✓		✓	✓	✓	✓	✓	✓
12.	Umaina Jalina	✓	✓		✓	✓	✓	✓	✓	✓
13.	Khutbiya	✓	✓		✓	✓	✓	✓	✓	✓
14.	Fareeda	✓	✓		✓	✓	✓	✓	✓	✓
15.	Sara	✓	✓		✓	✓	✓	✓	✓	✓
16.	Nousheen Jalina	✓	✓		✓	✓	✓	✓	✓	✓
17.	Firdous Begum	✓	✓		✓	✓	✓	✓	✓	✓
18.	Syedra Arsiya	✓	✓		✓	✓	✓	✓	✓	✓
19.	Muneefa Jalina	✓	✓		✓	✓	✓	✓	✓	✓
20.	Zeenath parveen	✓	✓		✓	✓	✓	✓	✓	✓

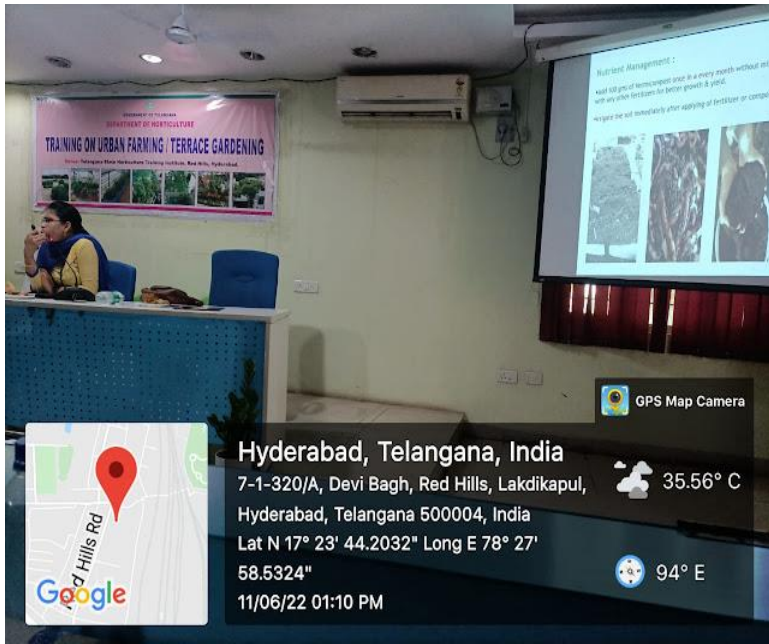
➤ **Visit Trip & Workshop on Terrace Gardening at Horticulture Training Centre , Horticulture Department , Nampally, Hyderabad on 11-06-2022**

1. Yadagiri AD
2. Smt.A.V.N Lavanya,
Scientist (Horticulture), Vegetable Research Station,
S.K.L.T.H.U Rajendranagar
3. B Manga Horticulture officer
4. R. Swaroopa.
5. Anjaneylu:

<https://www.youtube.com/watch?v=UfuQvf-vud4>











Date: 10.06.2022.
Hyderabad.

To,
The Principal,
GDC (W), Hussainialam,
Shahgunj, Hyderabad.

Sub: Field trip to Horticulture Department – Regarding.

Respected Madam,

We, the Department of Botany planning to visit Horticulture Department, Near Public Garden, Nampally, Hyderabad on 11-06-2022 as a part of Curriculum. Hence 30 Students and 3 faculty members are permitted to visit as per their instructions. In this regard we request you kindly permit us to take the Students for field trip.

Enclosures: List of Students.

Yours faithfully
M. S. I.
(Dr. P. Lakshmi)
(K. VIDYASATHI)

mitted
10/6/22

Sr.No	Name	Group	Year	ph.no.
1	Uma fatima	Bzc	1 st Year	755504407
2	Syeda ayesha begum	Bzc	1 st year	8978601585
3	Hameeda baru	Bzc	1 st year	7095784500
4	Sadiya Sultan	Bzc	1 st year	7330575834
5	qamar	Bzc	1 st year	7675863875
6	Ameena fatima	Bzc	1 st year	8008770159
7	Shagufta	Bzc	1 st year	-
8	Hajera	Bzc	1 st year	9898017696
9	Limza	Bzc	1 st year	8498082471
10	Sadiya Sultan	Bzc(B)	1 st year	9160416149
11	Tameem	Bzc	1 st year	6300541612
12	Neha begum	Bzc	1 st year	7569159550
13	Zeba aijaz	Bzc	1 st year	9963480644
14	Aesha passem	Bzc	1 st year	7569778361
15	Samiya Sultan	Bzc	1 st year	9985603325
16	Muneefa fatima	Bzc Bzc	1 st year	9392342652
17	Mus Koon Begum	Bzcs	1 st yr	9160079877
18	uzma Sultan	Bzc	I yr	8019744866
19	Safia Sultan	Bzc	I yr	9676804502

Name	GROUP	YEAR	Phone No.
1) Subiya sani	Bzc	II	9296446299
2) Umalma fatima	Bzc	II	990083693
3) Khushiya	Bzc	II	8341264550
4) Zoha fatima	Bzc	II	9326415706
5) Amal Raham	Bzc	II	941229960
6) Shaikh Asma-ol-Huma	Bzc	II	7093927935
7) Jafai Begum	Bzc	II	9700882492
10) Saba Amal Quader	Bzc	II	8184843141
11) Fareeda	Bzc	II	9014896667
12) Saiza	Bzc	II	8143548460
13) Sayeda Afreen	Bzc	II	7672094335
14) Naveen fatima	Bzc	II	812519684
15) Firdaus Begum	Bzc	II	938190206
16) Syeda Aashya	Bzc	II	950267902



Govt. Degree College for Women, Hussainialam Hyderabad




Certificate of Participation

This is to certify that _____
has participated in Certificate course on Terrace gardening from
3-06-2022 to 11-06-2022 ” organized by Department of
Botany, Govt. Degree College for Women, Hussainialam, Hyderabad

Dept. of Botany
**M. Sunitha,
B. Vidyadhri**

HoD, Dept. of Botany
Dr. P. Latha

Principal
Dr. B. Sunitha Padmavathi