

ADD ON COURSE

The department of Botany is conducting an add on course on "Terrace Gardening". This is to invite all B.Sc [B.Z.C.] students who are interested to join.

ABOUT THE COURSE

The Department of Botany is conducting an add course on Terrace Gardening, which is very much helpful to the students. So we invite the students to apply for this course. The course comprise of daily 2 hours for 15 days, with both theory and practical classes.

At the end of the course an evaluation will be conducted and we will award the certificate which is very much valid.

Interested students can register their names in the Department of Botany.

G.V.S. SUBRAMANYAM
COURSE CO-ORDINATOR

K.V.S. DURGA PRASAD
HOD BOTANY

"TERRACE GARDENING"



HINDU COLLEGE, GUNTR
DEPARTMENT OF
BOTANY
ADD ON COURSE ON
TERRACE GARDENING
16-FEB-2022 TO 05-MAR-2022





HINDU COLLEGE GUNTUR



Department of Botany

K.V.S. DURGA PRASAD,
ACADEMIC ADVISOR, HOD BOTANY
9848110174.

Date:08-02-2022

TO:

The principal,
Hindu college,
Guntur.

Through IQAC coordinator

Sir,

The Department of Botany is willing to conduct an add on course for 30 hrs. on “Terrace Gardening” for our B.Sc [B.Z.C.] students. We would like to conduct the course from February 16th 2022 to March 05th 2022, with daily two hours classes between 04 PM to 06 PM.

So we request you tot give permission to conduct the course.

Yours sincerely,

K.V.S. Durga prasad,
HOD Dept. of Botany,
Hindu college, Guntur.

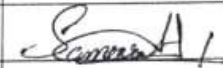
HINDU COLLEGE, GUNTUR.

DEPARTMENT OF BOTANY

ADD ON COURSE – “TERRACE GARDENING”

16TH - FEBRUARY - 2022 TO 05TH - MARCH - 2022

REGISTRATION FORM

S. No	Name of the student	Roll No	Class	Signature
01	Syed Sameera Sulthana	307	BSc Bzc	
02	chilluvuri.Vijayalakshmi	285	BSc-BZC	Ch.Vijayalakshmi.
03	Thati. seavanthi	308	BSC-BZC	T. Seavanthi
04	Susepalli.Tyothika srilakshmi	306	BSc - BZC.	S. Jyothika srilakshmi
05	Peddakotta. keeshti	299	BSc-BZC	P. Keeshti
06	N. ISwarya .(Nebaturi).	675	BSC - BZC.	N. Iswarya.
07	Bairaboina Saikrishna	283	BSC-BZC	B. Sai Krishna
08	Davala.pavankumar	286	BSc-BZC	D. Pavan Kumar
09	Shaik. Reshma	725	BSc-BZC	Sh. Reshma
10	A. Chandrika	691	BSc - BZC	A. Chandrika
11	D. Shanmukhi	701	BSc-BZC	D. Shanmukhi
12	Syed. Sameeja	727	BSc. BZC	Syed. Sameeja
13	D. Vinita	702	BSc. BZC	D. Vinita
14	Shaik. Aarifunnisa	723	BSC. BZC	Sh. Aarifunnisa
15	B. Sai Gunesh naik	695	BSC. BZC	B. Sai Gunesh
16	K. Ananda Raju	710	BSc. BZC	Ananda Raju
17	S. Siva Raju	722	BSC. BZC	S. Siva Raju.
18	Shahina. Shaik	726	BSC. BZC	Sh.
19	Shaik. Kulsum	724	BSC BZC	Kul



**HINDU COLLEGE, GUNTUR
DEPARTMENT OF BOTANY**



Certificate of Participation

This certificate is presented to

Studying _____ class has successfully participated in the Add - on course named "TERRACE GARDENING" conducted by Department of Botany during the academic year 2021- 2022.

G.V.S. SUBRAMANYAM
Convenor of the Course

P. M. PRASAD
Principal

Add on course
Title: TERRACE GARDENING

SYLLABUS

The department of Botany introduced “Add on Course” program for botany students for the academic year 2021-2022 on “Terrace Gardening”.

Course objectives:

1. To obtain knowledge on terrace garden maintaining.
2. Low cost investment.
3. To gain practical knowledge.
4. Easy maintaining.
5. No need of land requirement.

UNIT- I: Leafy Vegetables

Amaranthus, Spinach, Phoenogracum, Basal and Alternanthera.

UNIT – II: Vegetables

Potato, Brinjal, Tomato, Capsicum, Carrot, Beetroot.

UNIT – III: Fruit yielding plants

Lemon, Sapota, Banana, Mango, Grapes.

UNIT – IV: Medicinal plants

Lemon grass, Aloe Vera, Eclipta, Ocimum, Arva lenata.

UNIT – V: Pest control management, Economic importance & Nutritional values of Vegetables, leafy vegetables.

COURSE OUTCOME:

Because of this terrace garden, the students will get more information on, maintaining & their different vegetables in less expenditure & more effective.

TERRACE GARDENING

Department of Botany initiated “Terrace Gardening”, Co-ordinator G.V.S. Subramanyam, 20 students participated in this programme. It is an art of creating the greenery on the roof top. Generally, 1sq.mt. of terrace garden can give 25 to 50kg of vegetables every year.

A roof garden is that, in which vegetables, fruits, flowers are grown on terrace, balconies (or) roof of buildings. That is garden is become popular because of increasing pressure on land increasing cost.

Steps for creating terrace gardening

1. Take a simple pot (or) container, then mix the compost, soil, coir peat and vermicompost.
2. Drill a hole in a recycled container, by using a broken pot (or) a flat stone, cover the drainage hole at the bottom and fill up with the mixture.
3. Pour water in the container and wet the soil.
4. One can make own organic manure at home using the kitchen waste.

Advantages:

1. Reduction of indoor temperature (6-8).
2. Lowering of heat absorption of building and insulate the building against heat and cold.
3. Increase of oxygen percentage in the air.
4. Reduction of soil pollution.
5. It is less expensive.
6. It improves health.

The tools required for the Terrace Gardening:

Hand hoe, rose can, hand sprayer, gardening hose with sprinkler, bamboo stakes, jute stings, pots and containers, organic manure, river sand, agrochemicals.

Vegetable crops:

Potato, Brinjal, Capsicum, Carrot, Beetroot.

Leafy vegetables:

Amaranthus, Spinach, Phoenogracum, Basal and Alternanthera.

Fruit yielding plants:

Lemon, Sapota, Banana, Mango and Grapes.

Medicinal plants

Lemon grass, Aloe, Eclipta, Ocimum, Arva lanata.

Conclusion:

Terrace Gardening is not only a profitable hobby but also beneficial in terms of physical exercises, better utilization of space, time, environmental sanitation, recycling of house hold waste. There is no need of farming background to start a roof garden and once the garden is established, everyday one hour is enough to maintain the garden with healthier environment.



TERRACE GARDENING

ADD ON COURSE
DEPARTMENT OF BOTANY
HINDU COLLEGE, GUNTUR

What is home terrace gardening?

- ▶ Built to cultivate vegetables, flower and fruits on the terrace, balconies or roof of buildings.
- ▶ Also called as terrace garden, roof garden.
- ▶ Doesn't need any farming background to start roof garden.



“ The glory of gardening: hands in the dirt, head in the sun, heart with nature. To nurture a garden is to feed not just the body, but the soul. ”

Process of planting sapling.

- ▶ Take a pot and place stones at the bottom. The soil mixture needs to be one part coir pith, soil and manure.
- ▶ To this, add a few tablespoons of neem mixture and plant pseudomonas.
- ▶ Mix well together and put it over the stones in the pot.
- ▶ Plant a few seeds of one plant.
- ▶ Water the soil. The plant is ready.
- ▶ Now just remember to water it every day!
- ▶ Once a week, dilute 30 ml of panchagavya in one litre water and spray this on the plants.

Information

▶ ABOUT SOIL:

- ❖ The right mix of soil requires regular soil, compost coir peat (or sand) and vermicompost in equal quantities.
- ❖ Adding fertilizer to soil helps the plants to grow fast.

▶ ABOUT POTS:

- ❖ Containers of all sizes, shapes, whether of plastic, ceramic, metal or mud can be used.
- ❖ Clay pots are more stable in windy conditions.
- ❖ Large containers are used for planting tree. Plastic containers are used for small herbs/ plants.

How to do terrace gardening?

► Creating a vegetable Garden in Pots

- ❖ Choose large and deep pots, avoid thin and poor quality plastic pots.
- ❖ Use good quality potting mix for healthy growth of plants and productivity.
- ❖ **VEGETABLES FOR POTS:** Tomatoes, Cucumbers, Radishes, Beans, Potatoes, Onions, Carrots, Chilies and Peppers.



► Creating a Vegetable Terrace Garden in Planter boxes

- ❖ Do not use ordinary garden soil in these planter boxes, either use quality potting mix or compost rich soil.
- ❖ **PLANTS FOR FLOWER BOXES:** Cucumber, Tomatoes, Garlic, Chilies, Herbs, Radishes, Bush beans



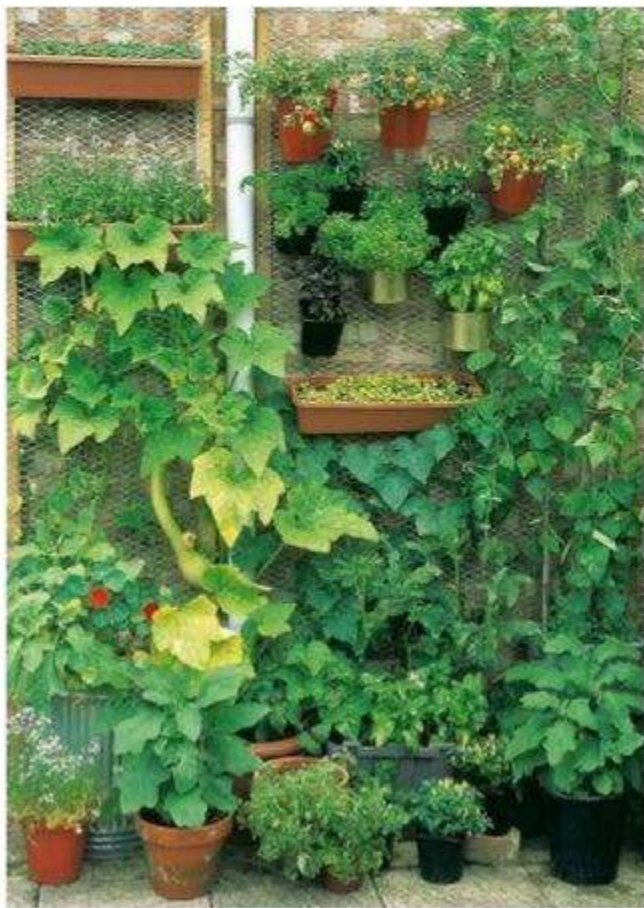
▶ Repurpose Sandboxes

- ❖ With a small simple wooden sandpit, you can also make a hefty vegetable patch.
- ❖ Looks not only decorative, but provides optimal space to thrive.
- ❖ VEGETABLES ON SANDBOXES: herbs, garlic, spinach, ginger, and lot other green vegetables.



► Optimize Vertical Space

- ❖ Use old shelves, racks to keep pots and buy pot holders, put them around the corners.
- ❖ you can also grow flowers to appease ornamental views.
- ❖ Grow vegetable shrubs and vines like beans, squashes, gourds and tall tomato varieties.
- ❖ By this method you will save lot of space.



Advantages of terrace gardening

- ▶ Convenience of safe, pesticide free, healthy green and fresh vegetables.
- ▶ Conducive to a routine of physical exercise, clean air and close to nature.
- ▶ Increases amount of oxygen in air.
- ▶ Reduces overall heat absorption of buildings, Insulates the building against heat and cold.
- ▶ Helps to reduce soil erosion for farming .
- ▶ Acts as a habitat for city weary birds and animals.
- ▶ Reduces indoor temperature by 6- 8 degree and can reduce air conditioning cost by 25% to 50%.

Benefits of terrace gardening

▶ ENVIRONMENTAL :

- ❖ Conservation of soil and water.
- ❖ Limiting soil erosion and also maintaining soil's fertility.
- ❖ It reduces the velocity of water runoff and thereby collects and holds rainwater.
- ❖ Oxygen storage benefits.
- ❖ Doesn't use pesticides and chemicals.

▶ HEALTH:

- ❖ Improved air quality.
- ❖ More pleasant and peaceful, less stressful environment.
- ❖ Improved climate conditions- addressing heat stress.
- ❖ It helps us to consume chemical free vegetables. (wax & other chemicals).

▶ **COST/FINANCIAL:**

- ❖ The cost of production and maintenance is affordable.
- ❖ Can save lot in terms for transportations, storage.
- ❖ During the times of heavy rains or disasters, we can consume the available vegetables.
- ❖ Even during the time of price hike in vegetables, this terrace gardening helps us by providing own vegetables.

▶ **SOCIAL:**

- ❖ Quality of green public spaces.
- ❖ It reduces social tensions.
- ❖ It acts as opportunities for volunteers, employment.

Terrace gardening as business

- ▶ As it requires small investment and small place to start a terrace farming, it is very beneficial.
- ▶ There is no labour needed. The business can run by individual also.
- ▶ As it is organic farming, people prefer buying vegetables from this vendor than in market.
- ▶ The cost of these vegetables will be less compared to cost in market.
- ▶ Owner can keep all the profits to himself.

Thank You



Add on course
Title: TERRACE GARDENING
Question paper

1. Give the Scientific name of Spinach.
2. What are the uses of Terrace gardening?
3. What is the protein % in Amaranthus?
4. What are the vitamins present in carrot?
5. What is the medicinal value of Aloe vera?
6. Name the crops which contain vitamin C.
7. What is our national fruit name?
8. Give the nutritional importance of leafy vegetables.
9. Name the diseases on leaf of basal.
10. What are the preventive measures to control the diseases?

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ADD ON COURSE – “TERRACE GARDENING”

16TH - FEBRUARY - 2022 TO 05TH - MARCH - 2022

Inauguration:



Plantation:





Classes:



