



CHRIST
COLLEGE (AUTONOMOUS)
IRINJALAKUDA, KERALA
Reaccredited by NAAC with 'A' grade

NAME OF THE COURSE

HORTICULTURE

VALUE ADDED CERTIFICATE COURSE ON HORTICULTURE 2022 - 2023

COURSE CODE

CPCC 27

OFFERED BY

Department of Botany
(Aided)

COURSE COORDINATOR

Dr. R Soumya
Assistant professor (Adhoc).
Contact: 9947712012

ELIGIBILITY

Plus Two Pass

COURSE STRUCTURE

35 Hours [25 Hours Theory (Hybrid mode) + 10 Hours Practicals (Lab)]

COURSE FEE

Rs. 300/-

COURSE DURATION

December 2022 to March 2023

ABOUT COLLEGE

Christ College was started in the year 1956 by the Devamatha province of the Carmelites of Mary Immaculate (CMI), an Indigenous Religious Congregation, founded in 1831, by St. Cyriac Elias Chavara, a saintly priest and versatile genius, who envisioned education as a tool for liberation and development. Christ College has been affiliated to Calicut University and re accredited by NAAC with the highest grade 'A'. Christ College is dedicated to Christ and has the Motto " Jeevith Prabha" which means "Light of Life". Christ College is part of a century old tradition of CMI education that is at its heart, Christian and specifically Catholic. It offers an ideal vision of education that is aware of and responsive to the challenges of the nation's present situation.

DEPARTMENT OF BOTANY

In June 1956, when the Botany department began it catered to the needs of students who took the Pre-University II group. In June 1957, when the degree course in Zoology was started with Botany was a subsidiary paper (Complementary Course) and it continued to initiate students into the wonderful world of flora. By June 1979 there were three batches of pre-degree (II Group). In 2000 the Pre Degree delinked from the College. With the advent of the Interdisciplinary M.Sc. Environmental Science course in January 2000, the department also shouldered the responsibility for its conduct up to 2016.

COURSE OBJECTIVES

- This course is designed to those students who are interested in horticulture.
- The course includes basics of gardening and plant propagation techniques.
- Student gains in-depth knowledge in plant propagation techniques and nursery activities.
- Intends to encourage students to take up agricultural activities and to equip them with self-employment in agricultural enterprises for income generation.

COURSE OUTCOME

- The students will know the basics of gardening and plant propagation techniques.
- Gains in-depth knowledge in plant propagation techniques and nursery activities.
- Students will be able to take up agricultural activities
- Will be equipped with self-employment in agricultural enterprises for income generation.

Module I: Fundamentals of Horticulture (5 hrs)

Module II: Plant Propagation Methods (10 hrs)

Module III: Gardening Methods (10 hrs)

Module IV: Practicals (10 Hrs)



HORTICULTURE

(Value Added Certificate Course)

Summary Report 2022-23

Course Code: CPCC 27

The Value-Added Certificate Course on Horticulture was started on 26th January, 2023. There were 8 students enrolled of which 5 students completed the course. The course was of 35 hrs duration. Students appreciated the classes and are interested in applying the principles of horticulture.

The Course targeted on implementing healthy and diverse plant propagation methods to youth. The syllabus assisted to meet theoretical and practical understanding of Horticulture.

Course Outcome:

- The students will be able to understand the basics of gardening and plant propagation techniques.
- The students become informative about plant propagation techniques and nursery activities.
- Students will become able in performing agricultural activities
- Students will be prepared with self-employment in agricultural enterprises for income generation.

Course Coordinator: Dr. R. Soumya

HORTICULTURE
Value Added Certificate Course
Teacher Coordinator Report 2022-23

Course Code: CPCC 27

Number of students	8
Date of examination	September 14, 2023
Total students who passed exam	5
Total course duration	35 hrs

Feedback analysis:

- 80% of the students have the advantage of the classes.
- Students well-regarded the practicals conducted.
- Methods of potting plants by vegetative propagation was the most interested topic by the students.
- The topic Soil was least in interest for students

Course Coordinator: Dr. R. Soumya

Department of Botany (Aided)



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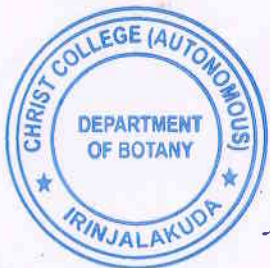
This is to certify that


THEMEEEMA MUSTHAFHA of 1st YEAR BSc GEOLOGY

has fulfilled all requirements of the Value Added Certificate Course in

Horticulture 2022-23 conducted by the Department of Botany.

He/She secured A⁺ Grade.




Dr. R. Soumya
Asst. Prof. Dept. of Botany




Rev. Dr. Jolly Andrews CMI
Principal



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Certificate

This is to certify that

MALAVIKHA K of 1st YEAR BSc CHEMISTRY

has fulfilled all requirements of the Value Added Certificate Course in

Horticulture 2022-23 conducted by the Department of Botany.

He/She secured B⁺ Grade.



Dr. R. Soumya
Asst. Prof. Dept. of Botany



Rev. Dr. Jolly Andrews CMI
Principal



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This is to certify that

VYDEHI SURESH of BA ENGLISH LITERATURE

has fulfilled all requirements of the Value Added Certificate Course in

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He/She secured A Grade.



Dr. R. Soumya
Asst. Prof. Dept. of Botany



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This is to certify that

SANA PARVEEN SADIQUE of BA ENGLISH LITERATURE

has fulfilled all requirements of the Value Added Certificate Course in

Horticulture 2022-23 conducted by the Department of Botany.

He/She secured B Grade.



Dr. R. Soumya
Asst. Prof. Dept. of Botany



Rev. Dr. Jolly Andrews CMI
Principal



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This is to certify that

ANGEL MARTIN of BA ENGLISH LITERATURE

has fulfilled all requirements of the Value Added Certificate Course in

Horticulture 2022-23 conducted by the Department of Botany.

He/She secured B Grade.



Dr. R. Soumya
Asst. Prof. Dept. of Botany



Rev. Dr. Jolly Andrews CMI
Principal

CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA
VALUE ADDED CERTIFICATE COURSE ON HORTICULTURE 2022 - 23
END EXAM

Time: 0.5 hours

Maximum mark: 25

All the questions can be answered
Each question carries 1 mark

1. The branch of agriculture dealing with the cultivation of vegetables is called
 - a) Viticulture
 - b) Pomology
 - c) Olericulture
 - d) Floriculture
2. Which among the following is not a physical property of soil
 - a) Soil permeability
 - b) Soil pH
 - c) Soil texture
 - d) Soil colour
3. The macronutrients of soil include
 - a) Nitrogen
 - b) Iron
 - c) Manganese
 - d) Copper
4. List out any two different types of soil
 - a)
 - b)
- 5) The fertilizer with only one primary or major fertilizer is called
 - a) Complete fertilizer
 - b) Incomplete fertilizer
 - c) Complex fertilizer
 - d) Straight fertilizer
- 6) Which among the following is not a biological fertilizer
 - a) Alfalfa
 - b) potassic fertilizer
 - c) Cottonseed meal
 - d) bone meal
- 7) What are the advantages of vermicomposting?
 - i) Develops the roots of the plants.
 - ii) Improves the physical structure of the soil.
 - iii) Vermicomposting increases the fertility and water-resistance of the soil.
 - iv) Helps in germination, plant growth, and crop yield.
 - v) Nurtures soil with plant growth hormones such as auxins, gibberellic acid, etc.
 - a) I, ii, iii
 - b) i, iii, iv
 - c) ii, iii, v
 - d) i, ii, iii, iv, v

- 8) Identify the type of irrigation which simulates rainfall and ensures application of water uniformly
- a) Sprinkle irrigation b) Flood irrigation c) Gravity irrigation d) Drip irrigation
- 9) What are the different types of grafting?
- a) Approach b) Tongue c) Both a and b d) None of these
- 10) Which among the following is not an exogenous dormancy
- a) Physical dormancy b) Morphological dormancy c) Mechanical dormancy d) Chemical dormancy
- 11) The type of dormancy in which seed dormancy is due to hard seed coat and dormant embryo
- a) Double dormancy b) Secondary dormancy c) Thermo dormancy d) Conditional dormancy
- 12) The type of vegetative propagation which needs only one plant
- a) Grafting b) Budding c) Layering d) None of these
- 13) Which of the following is not a treatment to overcome embryo dormancy
- a) Stratification b) Scarification c) High pressure treatment d) Chemical treatment
- 14) Which of the following are different methods of seed testing
- a) Seed moisture testing b) Physical purity c) Germination testing d) All of these
- 15) Which organism is used for vermicomposting?
- a) Bacteria b) Fungus c) Earthworm d) Virus
- 16) The enclosed chamber in which artificially mist is generated for the propagation of plants or seedlings is called
- a) Moist chamber b) Greenhouse c) Polyhouse d) Net houses
- 17) Which of the following equipment is meant for cutting branches, de-shooting, disbudding, cutting of scion sticks, defoliation of leaves from the sticks, topping- off small trees, etc.
- a) Mower b) Spade c) Garden rake d) Secateur
- 18) The type of Bonsai in which a single trunk is twisted once or several times showing as it has struggled for its existence in the wild.
- a) Informal type b) cascade style c) rock planting d) group planting

19) Advantages of landscaping an industry

- a) Beautification of the area
- b) Reducing pollution
- c) Both a and b are correct
- d) None of the above

20) Which of the following are the methods to protect horticultural plants

- a) Plant at the right time
- b) Space plants correctly
- c) Plant resistant varieties
- d) All of the above

21) Which of the following is not an advantage of greenhouse

- a) Off-season cultivation of crops is possible round the year
- b) Early production of quality seedlings and planting materials is possible
- c) More production per unit area in comparison to open field cultivation
- d) High initial and maintenance cost

22) Which of the following is an example of vegetative propagation through leaf cutting

- a) Hibiscus
- b) Bryophyllum
- c) Tapioca
- d) Sweet potato

23) Which of the following is a disadvantage of vegetative propagation

- a) Very simple method
- b) Easy to practice
- c) Variation in plants is not possible
- d) Large number of plants can be propagated from single plant

24) The portion of a plant into which a bud or a portion of a branch from a desired plant is set is called

- a) Scion
- b) Stock
- c) Bud
- d) Callus

25) What are the different types of budding?

- a) T budding
- b) Chip budding
- c) all of the above
- d) none of these

HORTICULTURE

Value Added Certificate Course Assessment Procedure 2022-23

Course Code: CPCC 27

Student evaluation was conducted based on practicals, project and final offline examination. 20% Mark was dedicated to project submission. The project given was “Visit to a plant nursery and submission of a brief report”. The students who had submitted project were permitted to attend the final examination.

Some sample questions are

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 - d) Straight fertilizer

Course Coordinator: Dr. R. Soumya

Value added certificate course – 2022 – 23 - mark list

Sl no	Name	Register number	Course	Interpretation
1	ANNA T J	CCAWSCH032	1 st year BSC Chemistry	Not completed
2	THEMEEMA MUSTHAFA	CCAWSGL034	1 st year BSc. Geology	Completed
3	MALAVIKHA K	CCAWSCH010	1 st year BSC Chemistry	Completed
4	ABHINI.C.J	CCAWSCH001	IIInd year BSC Chemistry	Not completed
5	VYDEHI SURESH	CCAWAEGR15	BA English literature	Completed
6	SANA PARVEEN SADIQUE	CCAWAEGR03	BA English literature	Completed
7	ANGEL MARTIN	CCAWAEGR07	BA English literature	Completed
8	AYSHA NIBA M N	CCAWSCH045	1 st year BSC Chemistry	Not completed