



UNIVERSITY OF JAMMU

(NAAC ACCREDITED 'A ++' GRADE' UNIVERSITY)
Baba Sahib Ambedkar Road, Jammu-180006 (J&K)

Academic Section

Email: academicsectionju14@gmail.com

NOTIFICATION **(26/Feb./Adp./136)**

In partial modification of this office Notification No. F.Acd/II/25/6856-75 dated 21.08.2025, it is hereby notified for the information of all concerned that the Vice-Chancellor, in anticipation of the approval of the Academic Council, is pleased to authorize the adoption of the amended Scheme of the Syllabus and Courses of Study of the Subject of **Horticulture Technology (Skill Enhancement Course) Course No. USEHCT-204 for Four Year Under Graduate Programme as per NEP-2020 for Semester-II (as given in the annexure) for the examinations to be held in the year May 2026 only.**

The Syllabi of the courses are also available on the University website: www.jammuuniversity.in

Sd/-
DEAN ACADEMIC AFFAIRS

No. F. Acd/II/26/14190-14205
Dated: 04-02-2026

Copy for information and necessary action to:

1. Dean, Faculty of **Life Science**
2. Convener, Board of Studies in **Horticulture Technology**
3. All members of the Board of Studies
4. Sr. P.A. to the Controller of Examinations
5. C.A. to the Controller of Examinations
6. Director, Computer Centre, University of Jammu.
7. Joint Registrar/Deputy Registrar/Asst. Registrar (Confidential/Exam UG/Exam. Non Prof.)

Shreeca
3/2/26
Joint Registrar (Academic)

SS
3/2/26
3/2/2026

DEAN, FACULTY OF LIFE SCIENCES

UNIVERSITY OF JAMMU



**CURRICULUM FRAMEWORK FOR
FOUR-YEAR UNDER GRADUATE (FYUG) PROGRAM IN
HORTICULTURE TECHNOLOGY**

UNDER CBCS

AS PER

National Education Policy-2020

WITH EFFECT FROM THE ACADEMIC YEAR 2025-26

Approved by:

Board of Studies in Horticulture Technology

Jm.

COURSE SCHEME OF SYLLABUS
BACHELOR OF HORTICULTURE TECHNOLOGY (GENERAL/HONOURS/HONOURS WITH RESEARCH)
SEMESTER II
(AS PER THE GUIDELINES OF NATIONAL EDUCATION POLICY-2020)

S.No	Course type	Course No.	Course Title	Credits	Marks			
					Theory		Practical	
					Mid Semester	End Exam	Assessment	Exam
1	Major	UMJHCT 201	Plant Propagation and Nursery Management	4 (3T+1P)	15	60	10	15
2	Minor	UMIHCT 202	Propagation Techniques and Nursery Practices	4 (3T+1P)	15	60	10	15
3	MDC	UMDHCT 203	Elementary Horticulture	3 (T)	15	60	NA	NA
4	SEC	USEHCT 204*	Nursery and Gardening	2 (1T+1P)	25	25		50

Course no: *USEHCT204 (applicable for May 2026 only)

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SYLLABUS
BACHELOR OF HORTICULTURE TECHNOLOGY (GENERAL/HONOURS/HONOURS WITH RESEARCH)
SEMESTER II
(AS PER THE GUIDELINES OF NATIONAL EDUCATION POLICY-2020)

SKILL ENHANCEMENT COURSE

COURSE TITLE: COMMERCIAL HORTICULTURE
UG SEMESTER II
(The Examinations to be held in the year May 2026)

Course no: USEHCT204

Credits: 2

Maximum marks (Theory): 50

- 1. External (University exam) :25**
- 2. Internal Assessment: 25**

Duration of university exam: 2Hr 30 minutes

Objectives: The course aims to make students understand the theoretical and practical details of nursery and gardening.

Expected outcomes: The students will be able to distinguish and choose the plant species amenable for nursery and gardening. They can develop their own nursery for livelihood and marketing purpose.

UNIT I: INTRODUCTION TO NURSERY AND GARDENING

- 1.1 Definition and types of nurseries, physical resources for nurseries
- 1.2 Pre requisites of an ideal fruit nursery; Selection of site and layout of model nursery
- 1.3 Definition and components of garden, types of gardening (landscape and home gardening)
- 1.4 Scope and objective of gardening

UNIT II: PRACTICAL: PLANT PROPAGATION METHODS

- 2.1 Seed dormancy –causes and methods of breaking it, factors affecting seed germination.
- 2.2 Propagation by seed, various techniques of Asexual propagation, Micro-propagation and its importance, concept of soilless cultivation with reference to hydroponics and aeroponics.
- 2.3 Seed collection; extraction and storage: - seed maturity, seed harvesting, seed storage conditions, role of moisture and temperature, types of seed storage Types of seeds (Orthodox and recalcitrant)
- 2.4 Seed germination, pre-sowing seed treatments for improving germination; Sowing techniques (Broadcasting, line sowing and dibbling).

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UNIT III: PRACTICAL; TOOLS, MEDIA AND EQUIPMENT FOR PROPAGATION

3.1 Propagation media (soil, sand, cocopeat, vermiculite and perlite) and their importance; Practice in various plant propagation methods viz. Grafting, Budding, layering and cutting techniques etc.; Aftercare of asexually propagated trees

3.2 Use of growth regulators in plant propagation, Hormonal powders, paste, solutions, methods of application; Application of manures and fertilizers; Preparation and use of organic and biofertilizers in nursery.

3.3 Tools and implements used in nursery and gardening: Mist chamber, Green house, polyhouse cold frame, hot bed, net house, etc., Use of polyhouse and shade net in nursery raising.

3.4 Preparation of seed and nursery beds; Seed sowing and raising of seedlings and transplanting, Potting, repotting, de-potting and mulching, Maintenance of nursery records

NOTE FOR PAPER SETTERS

Total marks of the USEHORT-204 is 50 of which 50 % marks shall be reserved for internal assessment (25 marks)

Remaining 50% of the marks (25 marks) shall be reserved for external examination to be conducted by the university/colleges.

Internal Assessment test (25 marks): Internal Assessment Paper of 25 marks shall consist of theory questions of 20 marks from unit I/II and 5 marks of practical exercise of unit III.

External end semester university /college examination, external theory exam shall be of 25 marks and consist of 2 sections

Section A: Three (3) short answer question at least 1 question from each unit. Each question shall be of 2 marks (all compulsory)

Section B: Three (3) long answer question: 2 questions (1 from unit I and 1 from unit II), each of 6 marks; 1 question (Practical based/ exercise from unit 3), carrying 7 marks.

Suggested readings:

1. Davies F T Geneve R L and Wilson S B 2018.
2. Hartmann and Kester's Plant Propagation Principles and Practices 9 th Edition Pearson. USA.
3. Sharma R R and Krishna H 2017. Textbook of Plant Propagation and Nursery Management.
4. C B S Publishers. New Delhi.
5. Sharma R R and Srivastava M 2004. Plant Propagation and Nursery Management. IBDC Publishers. New Delhi.
6. Handbook of Horticulture 2nd Edition ICAR Vol 1 & 2. New Delhi.
7. Peter K V 2002. Plantation crops. National Book Trust India, New Delhi.

