

ASSIGNMENT BOOKLET

Bachelor of Science (Food Safety and Quality Management) (BSCFFSQM)

Academic Sessions: July 2025 and January 2026

Course: BPVC-104: POST-HARVEST MANAGEMENT OF FOOD PRODUCE



**School of Agriculture
Indira Gandhi National Open University,
New Delhi – 110 068**

July 2025 and January 2026

LAST DATE FOR SUBMISSION OF ASSIGNMENTS

Course Code	Last Date for Submission of Assignments at LSC/PSC	
	July 2025 Session (for June 2026 TEE)	January 2026 Session (for December 2026 TEE)
BPVC - 104	30 th March 2026	30 th September 2026
For other courses of semester one, kindly refer the concerned assignment		

Note:

- Kindly submit your assignments at the concerned Learner Support centre (LSC)/Programme Study Centre (PSC) within the due date as mentioned above.
- Before submitting the examination form (March and September for June and December Term-end examinations, respectively), it is mandatory to submit the assignments.

Dear learner,

Welcome to 3rd semester of “Bachelor of Science (Food Safety & Quality Management) programme.

You are requested to go through the course materials first and then prepare the assignment response following the instructions. Your responses should not be a complete reproduction of the textual material/blocks provided for self-learning purposes. Please submit your assignment responses at the Learner Support Centre (LSC) allotted to you on or before the due date. The assignments will be evaluated by the Counsellors at the study centre/Programme Study Centre (PSC) and the respective weightage of marks will be added to the percentage of marks obtained at the term-end examination. Each candidate will have to complete assignments in order to appear in the term-end examination. Candidates are, therefore, advised to take assignments seriously and submit them on time.

General Instructions

- 1) If you fail to submit the assignments before the due date of the particular session, you are supposed to attempt a fresh set of assignments for subsequent sessions.
- 2) Write your Enrolment Number, Name, Full Address and Date of Despatch at the top right-hand corner of the first page of your answer sheet.
- 3) Write the Programme Title, Course Title, Assignment Code, Code and Place of the Study Centre on the left-hand corner of the first page of your answer sheet.

The top of the first page of your answer sheet for each assignment should be as follows:

Programme Title	Enrolment No
Course Code	Name
Course Title	Address
Study Centre Code.....
(Place)	Date

Note: Students are required to follow this format strictly.

- 4) Your answer sheet should be complete in all respects. Make sure that you have answered all the questions in the assignments before you submit them. Incomplete answer sheets will yield poor marks.
- 5) As far as possible, you are advised to give the relevant points from the course material and elaborate their answers and explanations in their own language instead of reproducing the language of the course materials.
- 6) You are advised not to copy from the study material while attempting the assignments. In case it is found that the assignments have been copied from the study material, you will be awarded zero marks.
- 7) Avoid copying from the answer sheets of other students. If copying is noticed, the assignments of such students will be rejected.
- 8) Use only foolscap size paper for your answers, ordinary writing paper, neither too thick nor too thin, will do. Assignments should be handwritten. Typed assignments are not acceptable.
- 9) Leave 3” margin on the left and at least 4 lines in between each answer in an assignment. This will enable your Counsellor to write useful comments in appropriate places. Write the question number for each answer clearly.
- 10) The coordinator of your LSC/PSC will return the evaluated assignments to you. This will also include a copy of the assessment sheet containing global comments of the evaluator on your performance in the assignments. This will enable you to improve in your future assignments as well as in the term-end examinations.
- 11) The Assignments should be sent or submitted to the Coordinator/ Programme In-charge of the Learner Support Centre/PSC allotted to you.

Before attempting the assignments, please read the instructions carefully.

Wishing you all the best for the successful completion of the BSCFFSQM programme.

HAPPY LEARNING!

Programme Coordinators (BSCFFSQM)

SEMESTER – 1

DISCIPLINE-SPECIFIC CORE COURSE

COURSE CODE: BPVC-104

COURSE TITLE: POST-HARVEST MANAGEMENT OF FOOD PRODUCE

Attempt both parts of the assignment.

Maximum Marks: 100

PART – A: ASSIGNMENTS

Attempt all questions. All questions carry equal marks. Write your answers in about 500 words.

Marks: 5x10=50

1. Explain the role of ethylene in fruit ripening, including its biosynthesis, mechanism of action, treatment systems, and critically analyze its significance in postharvest management. 10
2. Describe the causes and consequences of post-harvest losses in fruits and vegetables. Critically analyze the role of post-harvest management practices in reducing these losses and ensuring food security. 10
3. Explain the principles and factors affecting the storage life of food produce. Apply your knowledge to recommend suitable traditional, low-cost, and modern storage technologies for a rural food storage facility where losses of grains and vegetables are high due to inadequate storage. Justify how your recommendations will minimize losses and enhance food security. 10
4. Describe the major primary processing operations in fruits and vegetables. Critically analyze their role in reducing post-harvest losses, maintaining quality and enhancing market value. 10
5. You are appointed as a postharvest supervisor in a grain storage facility facing significant losses due to pest infestation and improper handling. Apply your knowledge of transportation, packaging, and storage methods for food grains to design an improved management plan, highlighting how each method can reduce losses and ensure food quality and safety. 10

PART – B: ACTIVITIES

Perform all activities. Submit the evidence (activities notebook, charts etc.) of any FIVE Activities. For details, kindly refer to Block 7 Activities Manual. Marks: 5x10=50

- Activity 1:** Survey on the arrival trends of fruits and vegetables in a local mandi or market.
- Activity 2:** Collection of disease specimens of any four fruits and vegetables in your locality.
- Activity 3:** Estimation of physical loss in selected vegetables at wholesale, retail, and consumer levels.

Activity 4: Visit to a cooperative milk collection centre or a local dairy plant and study the milk reception and platform testing.

Activity 5: Separation and quantification of the parts of fruits.

Activity 6: Preparation of a report on monthly arrival of major fruits and vegetables.

Activity 7: Preparation of a report on cold chain infrastructure existing in your district or state.

NOTE:

For the assignment questions of other generic courses you have opted for in the 3rd semester i.e. Discipline Specific Minor, and Ability Enhancement Course (AEC), kindly download them (search course codes in the format i.e. BCOS-185 (for courses you have opted check your registration status), select the correct session and download them) from the assignment section of the IGNOU website (<https://www.ignou.ac.in/studentService/download/assignments>).