



Under OU Category

ASSIGNMENT BOOKLET

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

Academic Sessions: July 2026 and January 2027

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

July 2026 and January 2027

LAST DATE FOR SUBMISSION OF ASSIGNMENTS

Course Code	Last Date for Submission of Assignments at LSC/PSC	
	July 2026 Session	January 2027 Session
BPVC - 101	30 th March 2027	30 th September 2027
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 “Bachelor of Science (Food Safety & Quality Management) (BSCFFSQM) 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 LSC/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

COURSE CODE: BPVC-101

COURSE TITLE: FOOD SCIENCE AND FOOD SAFETY

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 major nutrients, functional components, and physical, thermal, rheological, mass-transfer and electrical properties of foods, and relate them to food processing and quality. 10
2. Describe the major anti-nutritional factors, phytotoxins, marine toxins, mycotoxins and process/industrial contaminants in foods, analyze their sources, health effects and methods of risk reduction. 10
3. Discuss how food attributes influence consumer perception and food choice, and assess the importance of sensory quality, food structure, texture, flavour and keeping quality. 10
4. Explain how harvesting, handling, storage, transportation and processing affect the nutritional quality and sensory characteristics of food, and predict possible changes in carbohydrates, proteins, fats, vitamins, minerals and pigments. 10
5. A food product is found to be unsafe during storage or handling. Identify the possible food hazards and their likely sources, and propose suitable preventive and control measures to solve the problem. 10

PART – B: ACTIVITIES

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

Marks: 5x10=50

- Activity 1:** Prepare a chart of the Food Pyramid.
- Activity 2:** Visit to a local market to identify any Ten functional foods and their nutritional value.
- Activity 3:** Tabulating nutritional information on packed food products.
- Activity 4:** Assessment of your own dietary pattern and comparison with a reference balanced diet.
- Activity 5:** Prepare a pictorial chart of the disorders caused by the excess or deficiency of one macronutrient and one micronutrient.
- Activity 6:** Prepare a chart showing the process of digestion of food, absorption and transportation of nutrients.
- Activity 7:** Visit a food retail store or market to gather information on organic and traditional food products.

Activity 8: Calculate the Body Mass Index (BMI) and compare with the WHO standards.

NOTE:

For the assignment questions of other generic courses you have opted for in the 1st semester i.e. **Minor Vocational Course, Skill Enhancement Course (SEC) and Interdisciplinary Course (IDC)**, kindly download them (search course codes in the format e.g. BCOS-185, select the correct session and download them) from the assignment section of the IGNOU website

(<https://www.ignou.ac.in/studentService/download/assignments>).