

# ASSIGNMENT BOOKLET

## DIPLOMA PROGRAMME IN DAIRY TECHNOLOGY (DDT)

Academic Sessions: January 2026 and  
July 2026 sessions



School of Agriculture  
Indira Gandhi National Open University  
New Delhi – 110068

Dear learner,

As you are aware that for theory, the weightage to the term-end examination will be 80% and the weightage to the continuous assessment will be 20%. The continuous assessment is in form of assignments. There is one assignment for each course i.e. total eight assignments for the programme. Each assignment will be of 50 marks which ultimately will be converted to have weightage of 20 % of theory. Instructions to format your assignments are as follows:

### Instructions to format your assignments

Before attempting the assignments, please read the following instructions carefully.

1. On top of the first page of your answer sheet, please write the details exactly in the following format.

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Enrollment no:.....  
Name:.....  
Address:.....  
.....  
.....

Course Code:.....  
Course Title:.....  
Study Centre:..... Date:.....  
(Name and Code)

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**Please follow the above format strictly to facilitate evaluation and to avoid delay.**

2. Use foolscap size plain or ruled paper for writing your answer.
3. Leave 4 cm margin on the top, bottom and left of your answer sheet, write on both the sides with margin and tie /staple all the pages carefully (course-wise).
4. Clearly indicate question no. and part of the question being solved while writing answers.
5. You should write in your own handwriting and only handwritten assignments are evaluated.
6. **Last date** for submitting the assignments for **January 2026 Session is 30<sup>th</sup> September 2027** and for **July 2026 Session is 30<sup>st</sup> March 2027** (Check University website for date extension, if any).
7. Assignments have to be sent to the coordinator of your study centre.
8. We strongly suggest that you should retain a copy of your assignment responses.

Wishing you good luck.

**(Vijayakumar, P)**  
**Programme Coordinator,**  
**School of Agriculture, IGNOU**

## LAST DATE FOR SUBMISSION OF ASSIGNMENTS

Course Codes	Last Date for Submission of Assignments at PSC	
	January 2026 Session	July 2026 Session
BPVI-011, BPVI-012, BPVI-013, BPVI-014, BPVI-015, BPVI-016, BPVI-017, BPVI-018	<b>30<sup>th</sup> September 2026</b>	<b>30<sup>th</sup> March 2027</b>

### Note:

- Kindly submit your assignments at the concerned 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 essential to submit the assignment and get authentication from Programme-in charge or Coordinator of the study centre/PSC for the courses you will be appearing for.

**Course Code: BPVI – 012**

**Course Title: DAIRY EQUIPMENT AND UTILITIES**

**Maximum Marks: 50**

**Note: Attempt all FIVE questions.**

- 1) Identify the types of materials required for fabrication of dairy equipment and explain the reasons for their suitability in dairy processing. Prepare a product flow line diagram for a dairy plant receiving 10,000 litres of milk and manufacturing butter. 10
- 2) Explain the basic principles of a refrigeration system and describe the major components involved, highlighting their functions in maintaining required cooling conditions. 10
- 3) Describe the different boiler mountings (safety and control devices) and accessories used in dairy plants, explaining their functions and importance in efficient boiler operation. 10
- 4) Explain the working principles of single-phase and three-phase induction motors, and analyze why single-phase motors are not self-starting. 10
- 5) Identify the various recharge structures used for groundwater recharge and explain the working process of a rainwater harvesting system, highlighting its practical importance in water conservation. 10