BFADM -168

B.Sc. Fabric and Apparel Design

Assignments for students admitted in January 2026and July 2026 sessions

School of Continuing Education
Indira Gandhi National Open University
Maidan Garhi, New Delhi-110068

Dear Learner,

You will have to do one assignment on **Mathematics (BFADM-168)**. The assignment carries 100 marks.

Irrespective of the year and session of the registration you are required to submit the latest assignments uploaded on the website.

Instructions:

1) The top of the first page of your Assignment sheet should include the following:
   - Name:
   - Enrollment No. (Year & session):
   - Programme Name & Code:
   - Course Title:
   - Course Code:
   - Address:
   - Date:

2) Use A-4 size plain or ruled paper for your responses, write on both sides with margin

3) Write the question number with each answer.

4) You should write in your own handwriting and only handwritten assignments are accepted.

5) Read the assignments carefully. Go through the self-learning material on which they are based. **Do Not copy** the content of the Assignment from SLM.

6) Last date for submitting the assignments for January 2026 Session is 30th September 2026 and for July 2026 Session is 31st March 2027 or as notified by the University from time to time on IGNOU homepage: www.ignou.ac.in

7) Assignments are to be submitted to your Study Center allotted by your respective regional center for evaluation purpose. Remember to keep a copy of assignment.

8) Please contact the Course Coordinator/Programme Coordinators for any academic help / clarification: Dr. Richa Prakash & Dr.Anuradha Arya (Programme Coordinators) Email:richaprakash@ignou.ac.in, anuradhaarya@ignou.ac.in

Wish you Good Luck!

SCHEDULE FOR SUBMISSION OF ASSIGNMENTS

Assignment Number	Last Date of Submission	Whom to Send
BFADM-168 AST/TMA-1/2026/2027	30st September 2026 for January 2026 session 31st March 2027 For July 2026 Session	The Coordinator of Your Study Centre

Programme Title : **B.Sc. Fabric and Apparel Design**
Course Name : **Basics of Garment Construction**
Course Code : **BFADM-168**
Assignment No. : **BFADM-168/AST/TMA-2/2026/2027**

Maximum Marks: 100

Note: Answer all questions.

Part A : Short Answer **(10 Marks)**

1. Convert the following:
   a) 3 m 25 cm into centimetres
   b) 450 cm into metres and centimeters

2. Define a singular matrix and a non-singular matrix. Explain the difference between these two types of matrices on the basis of their determinants and inverses. Give suitable examples of a singular matrix and a non-singular matrix, and calculate their determinants to justify your answer. Also state whether the inverse of each matrix exists, giving a reason for your conclusion.

3. In a group of students, the probability of passing Mathematics is 0.8, the probability of passing Physics is 0.7, and the probability of passing both is 0.6. Find the probability that a randomly selected student:

   a) passes at least one of the two subjects,
   b) fails both subjects,
   c) passes Mathematics but fails Physics.

4. Discuss the criteria for good sampling. Explain the types of sampling.

Part B: Long Answer **(20 marks)**

5. A garment manufacturing unit receives 250 metres of fabric. During production, 18.5 metres are used for sampling and 192.75 metres are used for production. Calculate the quantity of fabric remaining.

6. Discuss the practical applications of matrices and determinants in solving systems of linear equations and decision-making problems. Give examples.

7. Explain what is meant by graphical representation and discuss how graphs help in simplifying, comparing, analysing, and interpreting large sets of data with the help of suitable examples.