

B.Sc. Fabric and Apparel Design

**Assignments for students admitted in
January 2026 and 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 **Chemistry (BFADM-162)**. 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 31st March 2026 and for July 2026 Session is 31st October 2026 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: richapraakash@ignou.ac.in, anuradhaarya@ignou.ac.in

Wish you Good Luck!

Programme Title : B.Sc. Fabric and Apparel Design
Course Name : Chemistry
Course Code : BFADM-162

Maximum Marks: 100

Note: The assignment has two sections.

Part A – Descriptive

Maximum Marks: 60

Answer all questions.

1. What is matter? Explain the three states of matter with one example of each.

(10 marks)

2. Define textile fibre. Classify fibres into natural and synthetic fibres and give suitable examples.

(10 marks)

3. Write short notes on the following:

(5 × 8 = 40 marks)

- a) Physical and chemical properties of matter.
- b) Structure of an atom.
- c) Chemical bonds in textile fibres.
- d) Natural fibres and their properties.
- e) Spinning methods for synthetic fibres.
- f) Singeing and desizing.
- g) Natural and synthetic dyes.
- h) Transfer printing.

Part B (Practical)

Maximum Marks: 40

Answer any *four* questions. Each question carries 10 marks.

4. Prepare a simple chart showing the three states of matter. Give two examples of each state and mention one characteristic of each.

5. Prepare a fibre identification board using any six easily available natural and synthetic fibres. Label each sample with its fibre name, source and one important property.

6. Prepare a flow chart showing the main pre-treatment steps of cotton fabric: singeing, desizing, scouring, bleaching and mercerizing. Write one purpose of each step.

7. Collect or draw examples of four textile dyes/colouring materials discussed in the course. For each, mention whether it is a natural or synthetic dye and write one suitable application.
8. Prepare a scrapbook showing any three textile printing methods, such as screen printing, block printing and transfer printing. Write two simple points about each method.