

Assignment Booklet

BSCAEY Programme

B.Sc (Applied Sciences - Energy)

Second Semester	
BEY-002	Energy Resources
BEY-003	Fluid Mechanics
BEY-005	Energy Efficiency and Management
BEY-018	Linear Algebra and Calculus
BEY-020	Computer Basics and PC Software (4)



**SCHOOL OF ENGINEERING & TECHNOLOGY
INDIRA GANDHI NATIONAL OPEN UNIVERSITY**

Maidan Garhi, New Delhi – 110 068

JANUARY 2026

Dear Student,

Please read the information on assignments in the Programme Guide that we have sent you after your enrolment. A weightage of 30%, as you are aware, has been earmarked for continuous evaluation, **which would consist of one tutor-marked assignment** for this Programme. The assignment for BSCAEY (first semester) has been given in this booklet.

Instructions for Formatting Your Assignments

Before attempting the assignment, 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:

ENROLLMENT NO :.....
NAME :.....
ADDRESS :.....
.....
.....

PROGRAMME CODE:
COURSE CODE:
COURSE TITLE:
STUDY CENTRE: DATE:

**PLEASE FOLLOW THE ABOVE FORMAT STRICTLY TO FACILITATE
EVALUATION AND TO AVOID DELAY.**

- 2) Use only foolscap size writing paper (but not of very thin variety) for writing your answers.
- 3) Leave 4 cm margin on the left, top and bottom of your answer sheet.
- 4) Your answers should be precise.
- 5) **These assignments submitted should be hand written in your own hand writing.**

We strongly suggest that you should retain a copy of your answer sheets.

- 6) **You cannot fill the Exam Form without** submission of the assignments. So solve it and **submit it at the earliest**. If you wish to appear in the **TEE, June 2026**, you should submit your TMAs by **April 30, 2026**. Similarly, if you wish to appear in the **TEE, December 2026**, you should submit your TMAs by **September 30, 2026**.
- 7) Assignments will be submitted at **your respective regional centre**.

We wish you good luck!

Assignment -1

(To be done **after** studying the course material)

Course Code: BEY-002

Course Title: Energy Resources

Assignment Code: BEY-002/TMA/2026

Maximum Marks: 100

Last Date of Submission: May 31, 2026 (For June TEE), September 30, 2026 (For December TEE)
Note:

1. All questions are compulsory.

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|------|---|----|
| Q.1 | Enumerate various forms of energy and discuss them in brief. | 10 |
| Q.2 | Describe the classification of energy resources as per its nature, availability and storing capacity. | 10 |
| Q.3 | Explain the proximate analysis of coal in detail. | 10 |
| Q.4 | Discuss the chemical structure of petroleum in detail. | 10 |
| Q.5 | Elaborate on the role of control rods in a nuclear fission reaction. | 10 |
| Q.6 | Describe in detail any two solar radiation measuring instruments. | 10 |
| Q.7 | Discuss, in detail the two types of solar water heaters with neat sketches. | 10 |
| Q.8 | What is solar drying and its types? Explain with neat sketches wherever possible. | 10 |
| Q.9 | Discuss, in detail the various types of hydrothermal resources. | 10 |
| Q.10 | Mention the key features of a floating drum bio-gas plant with a neat sketch. | 10 |