IGNOU

ACPDM

Assignment Booklet

Advanced Certificate in Power Distribution Management

ACPDM

Course Code

BEE-001

BEE-002

BEE-003

School of Engineering and Technology
Indira Gandhi National Open University
Maidan Garhi, New Delhi – 110 068

Jan/July 2026

Dear Student,

This booklet contains the assignments of ACPDM programme for the courses of BEE-001 BEE-002 & BEE-003. It is for your kind information that each course has one assignment, which is based on course material. You are advised to **write your responses in your own words**. This will improve your comprehension skills. Further, you may note that in case the Coordinator / Counselor may summarily reject your assignment response happens to be a copy of assignment response sheet submitted by another student, your assignment **and/or your marks might be made null and void**. Therefore, you are strongly advised not to allow any other student to copy it. **Your assignment marks carries 30%weightage in your Term End Examination (TEE).**

This to inform that minimum duration of this programme is 6 months and maximum duration is 2 years**.** Please note that if you fail to submit the assignment of any course in the registered session of 6 months then same set of assignment is valid for one year, after one year you have to upload fresh set assignment of current year for submission.

ou need to submit the assignments as under:

In January Session- By 15th May (For June TEE) ;

In July Session- By 15th November (For December TEE)

You can submit your assignment-

At your concern **Study Centre/Regional Centre** on or before the due date (in person).

Student are advised to get the acknowledgement/receipt while submitting assignment at Study Centre/Regional Centre concerned in order to fill up assignment submission details in your term end examination form.

We strongly feel that you should retain a photocopy of your assignment answer sheet duly acknowledged by the office of the Coordinator/Local Study Centre (LSC)/ Regional Centre (RC) to avoid any unforeseen situation.

For Formatting Your Assignments

- **On the top of the first page of your Tutor Marked Assignment (TMA) answer sheet**, please write the details exactly in the following format :

Regional Centre (RC) Code:	Date: _____
Local Study Centre (LSC) Code:	
Enrolment No. _____	Course Code : _____
Name: _____	Course Title : _____
Address: _____	
_____	E mail:
Signature:	Mobile No.:

- Please follow the above format strictly to facilitate evaluation and avoid delay.
- Use only foolscap size writing paper (but not of very thin variety) for writing your answers.
- Leave 3 cm margin on the left, top and bottom of your answer sheet.
- Your answer should be logical and coherent.
- While solving problems, clearly indicate the question number along with the part being solved. Recheck your work before submitting it.

Wishing you all good luck!

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ACPDM

TUTOR MARKED ASSIGNMENT

COURSE CODE: BEE-002

ENERGY MANAGEMENT AND IT APPLICATIONS

Maximum Marks: 100 **Last Date of Submission:** May 15, 2026(For June TEE),
Weightage in TEE : 30% Nov 15, 2026 (For December TEE)

Note: All questions are compulsory and carry equal marks.

Q.1 (a) What immediate, medium and long-term strategies can be adopted for meeting the goal of clean energy for all?

(b) Explain the concept of R/P ratio (reserve to production ratio) and hence give an estimate of energy resource availability.

Q.2 (a) Explain the need for energy accounting giving examples from your own experiences in a power distribution utility.

(b) What is an energy balance? How is it prepared for energy accounting?

Q.3 Distinguish between a preliminary and a detailed energy audit for a power utility.

Q.4 (a) Discuss the role of ERCs in helping in the implementation of DSM through power utilities.

(b) Explain the terms real-time pricing, time of use rates, strategic load conservation.

Q.5 Discuss electrical safety procedures for working with

a) Voltages up to 650 V and beyond

b) Transformers

c) Overhead lines

d) High voltage equipment

Q.6 Explain the major causes for fire outbreaks in a power utility. What techniques can be used for handling and preventing such fires?

Q. 7 Explain the objectives and scope of the Disaster Management Plan of a utility; and Describe the major constituents of the Disaster Management System and their functions.

Q. 8 Explain how IT can help in reducing AT & C losses and improving the efficiency of power distribution. Give examples.

Q.9 (a) What is SCADA? Discuss its usefulness for improving the operations of a power distribution utility.

(b) What is ERP? Discuss the benefits of using ERP in a power distribution utility.

Q.10 (a) Consider an existing web site of a power distribution utility. List the features of the web site. How would you like to change it to make it more user-friendly?

(b) List the reforms possible through GIS in the power sector.