

**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

## 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 30<sup>th</sup> April/May (For June TEE) ;**

**In July Session- By 30<sup>th</sup> October/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.

# TUTOR MARKED ASSIGNMENT

**COURSE CODE:BEE-001**

**POWER DISTRIBUTION SECTOR**

**Maximum Marks: 100**

**Weightage in TEE : 30%**

**Note:** All questions are compulsory and carry equal marks.

- Q.1 (a) What do you understand by load scheduling and Unscheduled Interchanges?
- (b) Outline the problems and challenges being faced by your utility and suggest ways in which these could be addressed to improve its overall performance.
- Q.2. (a) Outline the aims and objectives of the Electricity Act, 2003. In what sense is it different from the Electricity Acts preceding it?
- (b) What are the main objectives and thrust areas of the National Electricity Policy.
- Q.3 (a) Discuss the role of Energy Efficiency in the distribution sector in mitigating the demand–supply deficit.
- (b) Describe the relevant provisions of IEA 2003 and National Tariff Policy aimed at rationalizing the tariff in the electricity sector.
- Q.4 Discuss the role of the Central and State governments, Regulatory bodies, power utilities and the consumers in implementing distribution reforms.
- Q.5 Describe the important features of the power distributions system. Outline the advantages of high voltage distribution system (HVDS).
- Q.6 What is the significance of Grid Management? Who has the responsibility of Grid Management in your State and your utility?
- Q.7 (a) Distinguish between current and voltage transformers.
- (b) Describe the equipment required for the construction of a 11/0.4 kV distribution substation.
- Q.8 (a) Explain the Criteria for distribution Transformer Selection and Placement.
- (b) Which tests can be performed on DTRs before and immediately after installation?
- Q.9 (a) Explain the concept of benchmarking. Distinguish between different types of benchmarking.
- (b) Explain the importance of KPIs in Power Sector.
- Q.10 (a) Distinguish between T&D losses and AT&C losses. What factors contribute to T&D losses in rural areas?
- (b) Discuss how the utilities can carry out revenue protection through use of innovative metering, billing and collection techniques.