

## NATIONAL POWER TRAINING INSTITUTE

### COURSE CONTENTS

#### ONE YEAR POST GRADUATE DIPLOMA COURSE (PGDC) IN ENERGY MARKET MANAGEMENT

Contents	Hours
<b>First Semester</b>	
Energy Resources and Electricity Generation Options	120
Transmission Networks	30
Power System Operation and Management	60
Electricity Industry Structure and Regulations	120
Overview of Economic Theory	120
Commercial Systems & Transmission Pricing	60
Electricity Markets Design	120
Managerial and Interpersonal Skills	60
Communication Skills and Technical Writing	60
Visits to IEX/PXIL/RLDC	30
First Semester Examination	30
<b>Second Semester</b>	
Load Dispatch Simulator Training	60
Investing in Generation and Transmission	60
Ancillary Services Markets	60
Operation of Market Oriented Power Systems	120
Electricity Storage Technology and Management	30
Managing Risk	90
Integration of Renewables and Effect on Power Markets	60
Introduction to Smart Grids	30
Power System Optimisation	120
Smart Power Flow Controllers and Intelligent Automation	60
Cyber Security in Power Systems	30
Climate Change and the impact on Energy Systems	30
Power Market Simulation Lab	30
Project Presentation & Second Semester Examination	30