

NATIONAL POWER TRAINING INSTITUTE

COURSE CONTENTS

ONE YEAR POST GRADUATE DIPLOMA COURSE (PGDC) IN RENEWABLE ENERGY & GRID INTERFACE TECHNOLOGIES

Contents	Hours
First Semester	
Evolution of Indian Power Sector, Legislative & Regulatory Framework	60
Renewable Energy Sources Conversion and Technology, Solar Photovoltaic Power Plant: Planning, Design and Balance of Systems	60
Solar Thermal Applications-1: Low and Medium Temperatures, Solar Thermal Applications-2: Concentrators and Solar Thermal Power Plants	60
Renewable Energy Grid Integration & Concept of Smart Grid	60
Business Communication & Personality Development	60
Simulator (operation of RE simulator) /Lab Experiments/ Seminar	90
Plant Visits on different sites	30
Rotational On-Job Training at different plants/ companies	270
Semester Examination	60
Second Semester	
Wind Energy Technology	60
Small Hydropower Generation	60
Bio Mass Technology, Concept Of Co-Generation and Waste Energy Recovery, Geothermal, Tide, Wave Energy, Hydrogen Energy, Fuel Cell	60
Procurement Process & Material Management, Renewable Energy Financial modeling, Project Financing Entrepreneurship	60
Plant Visits on different sites	30
Simulator(operation of Hydro Simulator)/Lab Experiments/ Seminar	90
Project work at different project/ plant sites (On Job)	330
Second Semester Examination	60