

## Course outline

How does an NPTEL online course work?

Module 1 - Overview of Electric Vehicles in India

Module 2 - Vehicle Dynamics

Module 2 and 3 - Vehicle Dynamics and EV Subsystems

Module 4 - Storage for EVs

Module 4 - Storage for EVs (contd)

Module 5 - Fundamentals of battery pack design

Module 5 and 6 - Battery Pack Design, Motors and Controllers

Module 6 - EV Motors and Controllers

Module 7&amp;8 - Battery Charging and Swapping, Analytics

Module 9: Renewable Energy - Introduction

Module 10: Renewable Energy - Battery Charging and Swapping, Analytics

Module 9: Renewable Energy - Introduction

Module 10: Renewable Energy - Solar and Wind Energy

 Solar Photovoltaic

 Solar Cell and its Characteristics

 Solar Cells to Modules

 Wind Energy

 The War of Currents

 The birth of Solar - DC

 Quiz: Week 11: Assignment 1

 Quiz: Week 11: Assignment 2

 Quiz: Week 11: Assignment 3

 Quiz: Week 11: Assignment 4

 Week 11: Feedback form: Electric Vehicles and Renewable Energy

 Week 11: Lecture notes

 Week 11: Solutions

Module 11: Renewable Energy

Live Session

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## Week 11: Assignment 4

The due date for submitting this assignment has passed.

Due on 2021-10-13, 23:59 IST.

As per our records you have not submitted this assignment.

 1) What is the operation wind-speed range for a 2.1 MW Wind turbine 1 point

- 4 – 22 m/s  
 3.5 – 20 m/s  
 7 – 25 m/s  
 3.5 – 25 m/s

 No, the answer is incorrect.  
 Score: 0

 Accepted Answers:  
 3.5 – 20 m/s

 2) The lowest blade-point of a wind-mill needs to be above the tallest obstacle by 1 point

- 3 – 5m  
 5 – 7m  
 7 – 9m  
 ≥ 10m

 No, the answer is incorrect.  
 Score: 0

 Accepted Answers:  
 ≥ 10m

 3) What is the typical power coefficient ( $c_p$ ) for good wind turbines? 1 point

- 0.3  
 0.5  
 0.7  
 0.9

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- 0.3  
 0.5  
 0.7  
 0.9

 No, the answer is incorrect.  
 Score: 0

 Accepted Answers:  
 0.5

 4) Wind turbines can generate at most 75% power of wind's kinetic energy 1 point

- True  
 False

 No, the answer is incorrect.  
 Score: 0

 Accepted Answers:  
 False

 5) Wind speed increases 25% between height of 10 to 30 meters 1 point

- True  
 False

 No, the answer is incorrect.  
 Score: 0

 Accepted Answers:  
 True