

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&8 - Battery Charging and Swapping, Analytics

● Lecture 73 - EV Charger Introduction

● Lecture 74 - Charger Parameters and Types

● Lecture 75 - Slow/Fast chargers and Swapping

● Lecture 76 - Swapping

● Lecture 77 - Standardization and on board chargers

● Lecture 78 - Public chargers

● Lecture 79 - Public charger economics in Indian Context

● Lecture 80 - Bulk Chargers, Swapping stations and data analytics

● Week 9: Lecture notes

○ Quiz: Week 9: Assignment 1

 ○ **Quiz: Week 9: Assignment 2**

○ Quiz: Week 9: Assignment 3

○ Quiz: Week 9: Assignment 4

○ Quiz: Week 9: Assignment 5

● Week 9: Feedback form: Electric Vehicles and Renewable Energy

● Week 9: Solutions

Module 9: Renewable Energy - Introduction

Module 10: Renewable Energy - Solar and Wind Energy

Module 11: Renewable Energy

Live Session

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Week 9: Assignment 2

The due date for submitting this assignment has passed.

Due on 2021-09-29, 23:59 IST.

As per our records you have not submitted this assignment.

1) In Battery swapping the vehicle owner owns the battery as a part of EV.

1 point

- True
 False

No, the answer is incorrect.

Score: 0

Accepted Answers:

False

2) Standardization can help in increasing the volumes and reducing cost.

1 point

- True
 False

No, the answer is incorrect.

Score: 0

Accepted Answers:

True

3) A swappable battery can easily be stolen or used by someone else.

0 points

- True
 False

No, the answer is incorrect.

Score: 0

Accepted Answers:

False

4) Slow charging and cooling reduces the battery life.

1 point

- True
 False

No, the answer is incorrect.

Score: 0

Accepted Answers:

False

5) EO needs to purchase about _____ times the number of battery as the number of vehicles.

1 point

No, the answer is incorrect.

Score: 0

Accepted Answers:

(Type: Range) 1,1,2,2