

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

DOWNLOAD VIDEOS

- 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: Assignment 3

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) On board chargers proprietary to vehicle need not be standardised but public chargers need some standardisation. **1 point**

- True
 False

No, the answer is incorrect.

Score: 0

Accepted Answers:

True

 2) Cha-de-mo is European charging standard whereas CCS was developed by Japan **1 point**

- True
 False

No, the answer is incorrect.

Score: 0

Feedback:

CHAdeMO is Japanese charging standard whereas CCS is European charging standard.

Accepted Answers:

False

 3) AC-001 is DHI specified bharat charger for DC charger. **1 point**

- True
 False

No, the answer is incorrect.

Score: 0

Feedback:

AC-001 is a low power AC charger

Accepted Answers:

False

 4) Operating Voltage and connector are among other parameters that need to be standardised for swappable batteries. **1 point**

- True
 False

No, the answer is incorrect.

Score: 0

Accepted Answers:

True

 5) OCPP stands for _____ **1 point**

- Open Charging Port Protocol
 Open Charge Point Protocol
 Operating Charging Point Protocol

No, the answer is incorrect.

Score: 0

Accepted Answers:

Open Charge Point Protocol

 6) CCS stands for _____ **1 point**

- Combined Charging System
 Combination of Charging Systems
 Chinese Charging System

No, the answer is incorrect.

Score: 0

Accepted Answers:

Combined Charging System

 AC-001 has power limits upto [A] (kW) whereas DC-001 power limits are upto [B] (kW).

 7) The value of A is **1 point**

No, the answer is incorrect.

Score: 0

Accepted Answers:

(Type: Numeric) 4

 8) The value of B is **1 point**

No, the answer is incorrect.

Score: 0

Accepted Answers:

- Open Charging Port Protocol
 Open Charge Point Protocol
 Operating Charging Point Protocol

No, the answer is incorrect.

Score: 0

Accepted Answers:

Open Charge Point Protocol

 6) CCS stands for _____ **1 point**