

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

Module 9: Renewable Energy - Introduction

Lecture 81 - Introduction to Energy Scenario in India - Part 1

Lecture 82 - Introduction to Energy Scenario in India - Part 2

Lecture 83 - A novel Approach towards 100% RE in India - Part 1

Lecture 84- A novel Approach towards 100% RE in India - Part 2

Lecture 85- Going Beyond solar, wind, Li Ion and chilled water storage

Quiz: Week 10: Assignment 1

Quiz: Week 10: Assignment 2

Quiz: Week 10: Assignment 3

Quiz: Week 10: Assignment 4

Week 10: Feedback form: Electric Vehicles and Renewable Energy

Week 10: Lecture notes

Week 10: Solutions

Module 10: Renewable Energy - Solar and Wind Energy

Module 11: Renewable Energy

Live Session

DOWNLOAD VIDEOS

Week 10: Assignment 3

The due date for submitting this assignment has passed.

Due on 2021-10-06, 23:59 IST.

As per our records you have not submitted this assignment.

1) The Theoretical Energy density of Zn-Polyiodide is

1 point

- <100 Wh L⁻¹
 100 – 150 Wh L⁻¹
 150 – 200 Wh L⁻¹
 >300 Wh L⁻¹

 No, the answer is incorrect.
 Score: 0

 Accepted Answers:
 >300 Wh L⁻¹

2) The expected Power Density of Zn-Air batteries are

1 point

- 40 – 60 mW cm⁻²
 60 – 80 mW cm⁻²
 80 - 100 mW cm⁻²
 100 – 120 mW cm⁻²

 No, the answer is incorrect.
 Score: 0

 Accepted Answers:
 80 - 100 mW cm⁻²

3) Agriculture is the largest consumer of electricity in India

1 point

- True
 False

 No, the answer is incorrect.
 Score: 0

 Accepted Answers:
 Accepted Answers:
 False

 4) Industrial sector is responsible for 1/3rd of global GHG emissions

1 point

- True
 False

 No, the answer is incorrect.
 Score: 0

 Accepted Answers:
 True

5) The conversion efficiency of Hydrogen PEM fuel cells are 80 to 90%

1 point

- True
 False

 No, the answer is incorrect.
 Score: 0

 Accepted Answers:
 False