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

- Lecture 17 Drive Cycles and Energy used per km - Part 1
- Lecture 18 Drive Cycles and Energy used per km - Part 2
- Lecture 19 EV Susbsystem: Design of EV Drive Train -Part 1
- Lecture 20 EV Subsytem: Design of EV Drive Train -Part 2
- Week 3 Slide Content
- Week 3 Feedback Form: Electric Vehicles and Renewable Energy
- Quiz: Week 3: Assignment 1
- Quiz: Week 3: Assignment 2
- Week 3: Solutions

Module 4 - Storage for EVs

- TYEER OF EEUDAUN FUIII. Electric Vehicles and Renewable Energy
- Quiz: Week 3: Assignment 1
- Quiz: Week 3: Assignment 2
- Week 3: Solutions

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

Module 10: Renewable Energy - Solar and Wind Energy

Module 11: Renewable Energy

Week 3: Assignment 2

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment.

Due on 2021-08-25, 23:59 IST.

Que 3.1) A EV battery has a capacity of 15 kWh. Assuming 0.9 DoD and 75% end of life, what is the range that the vehicle (using 80 Wh/km) can support, when the battery is new. What range will it support at the end of life? Assume, Auxiliary power used is 500 W continuously and the efficiency of motor and controller is 85% each.

What is the Vehicle range in km when Battery is new

No, the answer is incorrect. Score: 0

Accepted Answers: (Type: Range) 105,130

What is the Vehicle range in km at end of life of Battery

No, the answer is incorrect. Score: 0

Accepted Answers: (Type: Range) 75,100 1 point

1 point

(Type. Harrye) 10,100