

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

- Lecture 46 - BMS Design of Electric Vehicle - Part 1

- Lecture 47 - BMS Design of Electric Vehicle - Part 2

- Lecture 48 - BMS Design of Electric Vehicle - Part 3

- Lecture 49 - BMS Design and Embedded System - Part 4

- Lecture 50 - BMS Design and Embedded System - Part 5

- Lecture 51 - Cell Testing and Characterization - Part 1

- Lecture 52 - Cell Testing and Characterization - Part 2

- Lecture 53 - EV Motors and Controllers - Vehicle Dynamics - Part 1

- Lecture 54 - EV Motors and Controllers - Vehicle Dynamics - Part 2

- Lecture 55 - EV Motors and Controllers - Understanding Flow - Part 1

- Lecture 56 - EV Motors and Controllers - Understanding Flow - Part 2

- Lecture 57 - Power and Efficiency

- Quiz: Week 7: Assignment 1**

- Quiz: Week 7: Assignment 2

- Quiz: Week 7: Assignment 3

- Week 7 - Lecture notes

- Week 7 - Feedback form: Electric Vehicles and Renewable Energy

- Week 7: Solutions

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

- Lecture 55 - EV Motors and Controllers - Understanding Flow - Part 1

- Lecture 56 - EV Motors and Controllers - Understanding Flow - Part 2

- Lecture 57 - Power and Efficiency

- Quiz: Week 7: Assignment 1**

- Quiz: Week 7: Assignment 2

- Quiz: Week 7: Assignment 3

Week 7: Assignment 1

The due date for submitting this assignment has passed.

Due on 2021-09-15, 23:59 IST.

As per our records you have not submitted this assignment.

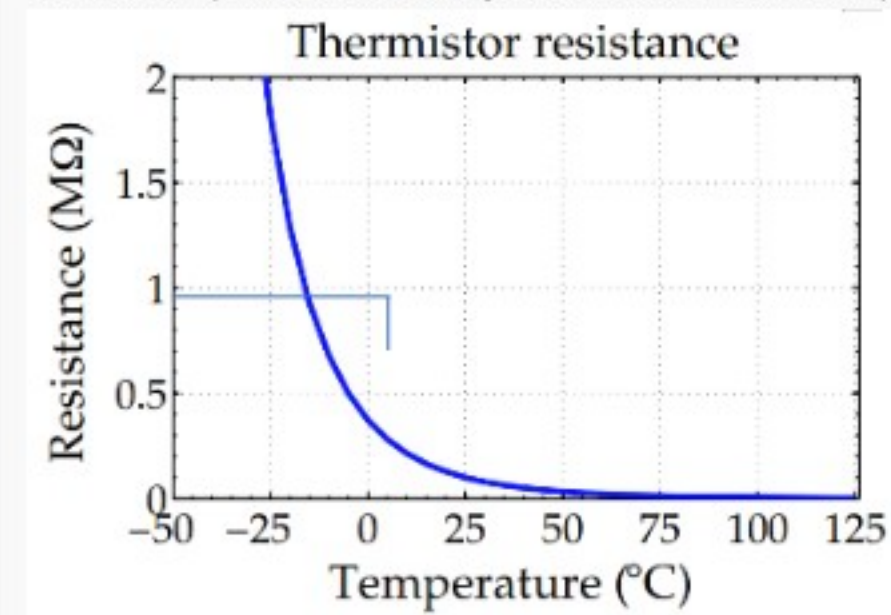
ADC calculation

1) An 8-bit ADC is used for reading the Voltage across a 5V Sensor. If the ADC feeds a value of 100 to the Microprocessor, find out what was the voltage in V (correct upto 2 decimal places) sensed by ADC across the Sensor.

 No, the answer is incorrect.
Score: 0

 Accepted Answers:
(Type: Range) 1.9,2.0

1 point

 2) If the Thermistor is placed in lower leg of Voltage Divider Circuit of 5V Source & $R_1 = 375k\Omega$. The voltage across Thermistor is 2V. Using the plot show, find the Temperature sensed by Thermistor. Find the Temperature sensed by Thermistor in deg C.


 No, the answer is incorrect.
Score: 0

 Accepted Answers:
(Type: Range) 0,10

0 points