1 point

Module 7&8 - Battery

Course outline	Week 3: Assig	nmen	t 1			
How does an NPTEL online course work?	The due date for submitting this assigni				Due on 2021-08-25, 23:	59 IST
Module 1 - Overview of Electric Vehicles in India	As per our records you have not submit	ted this assigni	ment.			
Module 2 - Vehicle Dynamics	Power, and the torque required every seco				e Cycle (IDC). Obtain the traction Force, tractio avelled. Obtain Wh/km for the vehicle. Assume	
Module 2 and 3 - Vehicle Dynamics and EV Subsystems	and gradient as 0°.					
 Lecture 17 - Drive Cycles and 	Mass (kg): M g (m/s2)	190 9.81				
Lecture 18 - Drive Cycles and Energy used per km - Part 2	Rolling Resist: μ (kN/kN) Cd (Drag Coefficient)	0.013				
 Energy used per km - Part 2 Lecture 19 - EV Susbsystem: Design of EV Drive Train - 	ρ (kg/m3)	1.2				
Part 1	A (m2) (Projected Area)	The second secon	Wheel radius(m)	0.28		
 Lecture 20 - EV Subsytem: Design of EV Drive Train - Part 2 	Drive cycle	IDC-2W	Regen eff factor R	0.3		
Week 3 Slide Content	Compute the total energy consumed	i (Wh)				
 Week 3 Feedback Form: Electric Vehicles and Renewable Energy 	No, the answer is incorrect. Score: 0					
Quiz: Week 3: Assignment 1	Accepted Answers: (Type: Range) 9,12					
Ouiz: Week 3: Assignment 2						1 poin
Week 3: Solutions	2) Compute the Distance travelled (m)					
Module 4 - Storage for EVs						
Module 4 - Storage for EVs (contd)	No, the answer is incorrect. Score: 0 Accepted Answers: (Type: Range) 630,680					
Module 5 - Fundamentals of battery pack design						1 poin
Module 5 and 6 - Battery Pack Design, Motors and Controllers	Compute the Wh/km for the vehicle No, the answer is incorrect.					
Module 6 - EV Motors and Controllers	Score: 0 Accepted Answers: (Type: Range) 13,19.5					
Module 7&8 - Battery Charging and Swapping, Analytics	b. Now assume that at 100 seconds in the	drive cycle, the	vehicle moves at constant spe	ed. but climbs	s a slope of 5° for 10 seconds. The vehicle then	1 poin
Module 9: Renewable Energy - Introduction					energy required, distance travelled and Wh/km,	
Module 10: Renewable Energy - Solar and Wind Energy	4) Compute the Energy required (Wh)					
Module 11: Renewable Energy	No, the answer is incorrect. Score: 0 Accepted Answers:					
Live Session	(Type: Range) 11,15					1 poin
DOWNLOAD VIDEOS	5) Compute the Distance travelled (m)					r poin
	No, the answer is incorrect. Score: 0 Accepted Answers: (Type: Range) 680,720					
	6) Compute the Wh/km No, the answer is incorrect. Score: 0					1 poin
	Accepted Answers: (Type: Range) 15,22					
Pack Design, Motors and Controllers	No, the answer is incorrect.					1 poin
Module 6 - EV Motors and Controllers	Score: 0 Accepted Answers: (Type: Range) 13,19.5					