Electric Vehicle Course

Best Course for graduating candidates to start their career | curriculum designed by Industry Experts | 1 Month of Program | Hybrid Classes | World-Class Curriculum

Duration:
1 Month

ElectroCloud Labs

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Introduction

Starting its journey from 2012, ElectroCloud is a dynamic Learning and Development service providing company and it is currently a gargantuan repository of more than 200 courses from various fields and has served more than 5000+ clients across the world.

At ElectroCloud, we have collaborated with the topmost colleges, industries, and universities to design paid/funded one time courses, specializations which consist of :

lecture videos

reading materials

online graded quizzes

graded assignments

At ElectroCLoud, we promise updated, quality content that will help learners all over the world to add new skills and enrich their knowledge.

Anshu Pandey

CTO

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Module 1

Introduction to Automobile Engineering

- Basic systems used in any vehicle Concept of traction
- Coefficient of friction
- Tractive force
- Tires
- Compounds of tire, Tread patterns of tire
- Deciding a suitable tire for a specific case

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Module 2 Suspensions Systems

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Module 3 Chassis Systems

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Module 4 & 5: Swing arm & Steering System

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Module 6: Brake System

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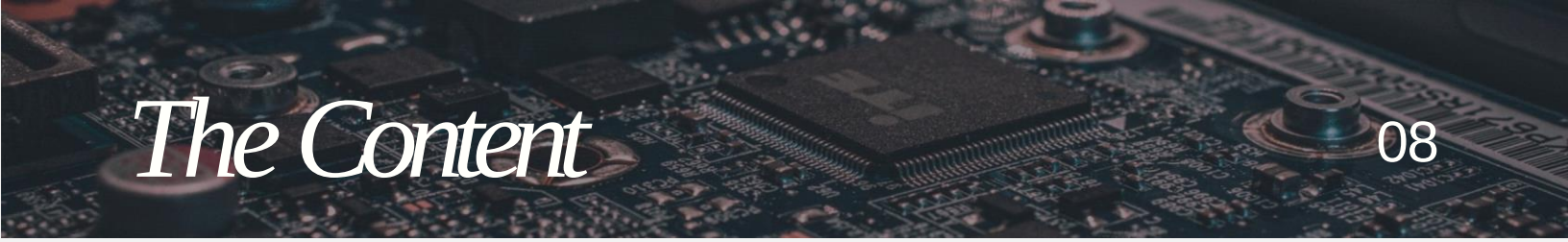
Module 7: Vehicle Dynamics

- Rolling
- Pitching
- Load transfer
- Mass transfer
- Mass transfer calculation
- Centrifugal forces
- Leaning of vehicles on corners
- Capability of different vehicles to lean
- Castor angle and its effects
- Camber angle and its effects
- KPI and its effects
- Introduction to Vehicle Aerodynamics
- Drag force
- Calculation of drag force
- Calculation of required horse power to overcome drag force at high speeds
- Lift force
- Calculation of lift force
- Rear wing/spoiler
- Lip spoiler
- Air dams
- Diffusers
- Double DRS



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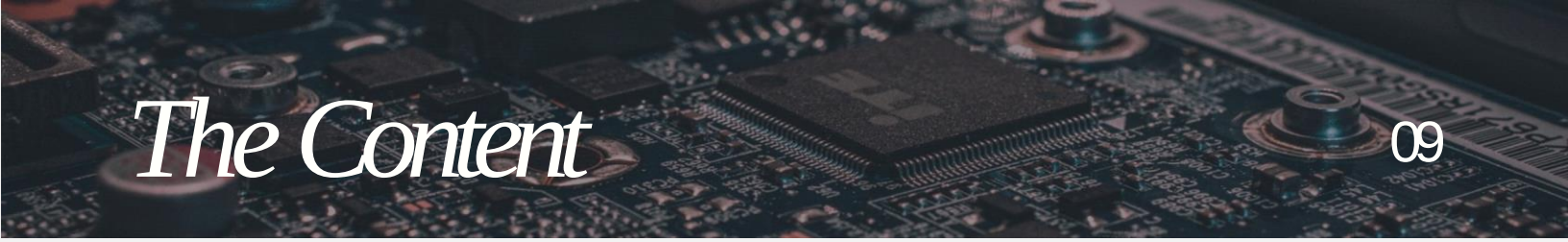
Module 8: Vehicle Mechatronics



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Module 9: Vehicle Design Concepts

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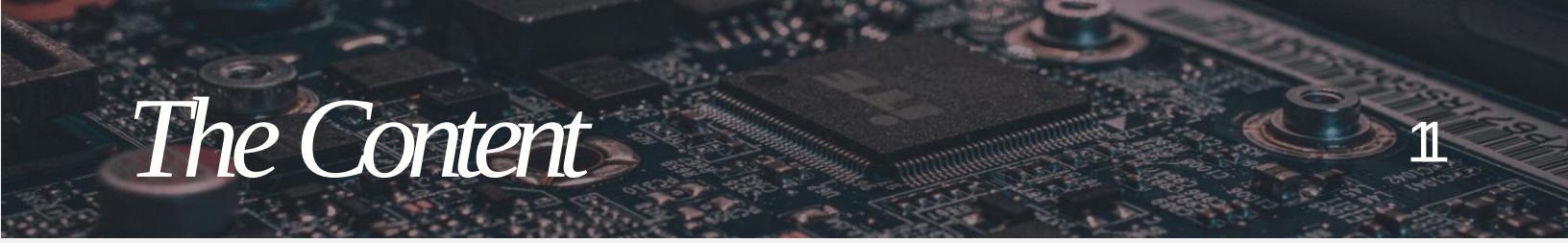
Module 10:

Introduction to Electric Vehicle

- Understanding Battery
- Types
- Popular Battery Chemistries
- Understanding Role of Controller
- Understanding role of B.M.S.
- Knowing why transmission is eliminated from EVs
- Ease in putting Traction Control in EVs
- Ease in putting KERS/RGBS in EVs
- Minimizing Thermal Hot Spot in Battery
- Advantages of EV over I.C.E. vehicle
- Comparison of Energy Density
- Understanding Technology TESLA & TATA
- Understanding Technology of SELF DRIVING CARS



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Module 11 & 12:

Real-Time Working on eVehicle

- Working on Solid Work
- Designing and Simulation on Solid Works
- Working on real time EV

Conclusion

Curiosity is a force, a force that drives us towards the path of exploring new things. At times, when we stumble on the path, we draw back from our quest and this is a scenario where hundreds of students all over the globe lose their will to learn a particular skill when they do not find the right resource.

We at ElectroCloud spend thousands of hours & work with experts from Industry to design qualitative courses to make the right learning opportunity available to students.

Team ElectroCloud is working their best to provide help to every learning enthusiast out there so that they can achieve their goals and make good use of what exists in technological world.

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Photographs from last event