

Certificate of Training

Pavan Srinivas Marri

from PBR Visvodaya Institute Of Technology & Science has successfully completed **Advanced Powertrain** course as a part of the Electric Vehicle. The course consisted of Introduction to EV Powertrain, Overview, Architecture and components of EV powertrain, EV Charging Systems and Types of Chargers, Powertrain considerations, EV modelling with MATLAB, Powertrain Case studies, Powertrain Certification, Powertrain Primary Components, Introduction to Ansys, Modelling & Analysis of EV Powertrain Components in Ansys, and Introduction to SolidWorks modules. Pavan Srinivas has scored 100% marks in the final assessment of this course.

A handwritten signature in black ink, appearing to read "Sarvesh".

Sarvesh Agrawal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2024-06-27

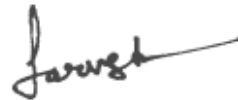
Certificate no. : jo8jooip23r

For certificate authentication, please visit https://trainings.internshala.com/verify_certificate

Certificate of Training

Pavan Srinivas Marri

from PBR Visvodaya Institute Of Technology & Science has successfully completed **Analog & Digital Electronics** course as a part of the Electric Vehicle. The course consisted of Introduction to Basic Electronics, Diode Fundamentals, Rectifiers and Filters, Special Purpose Diodes, Transistors, Operational Amplifier (Op-Amp), Digital Electronics, Microcontrollers and Microprocessors, and Introduction to Proteus Software modules. Pavan Srinivas has scored 91% marks in the final assessment of this course.

A handwritten signature in black ink, appearing to read "Sarvesh".

Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2023-12-08

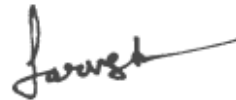
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Certificate of Training

Pavan Srinivas Marri

from PBR Visvodaya Institute Of Technology & Science has successfully completed **Battery management system** course as a part of the Electric Vehicle. The course consisted of Basics of Batteries, Battery Parameters, Lithium-Ion Characteristics, Thermal Runaway, Battery & SOC Estimation, CAN Protocol, SOC Modelling Using MATLAB, Cell modeling in MATLAB, and BMS modelling using MATLAB modules. Pavan Srinivas has scored 96% marks in the final assessment of this course.

A handwritten signature in black ink, appearing to read "Sarvesh".

Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2024-03-04

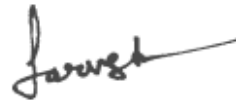
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Certificate of Training

Pavan Srinivas Marri

from PBR Visvodaya Institute Of Technology & Science has successfully completed **Battery Pack Design & Modelling** course as a part of the Electric Vehicle. The course consisted of Overview of Battery Parameters & Cell Chemistry, Revisiting BMS for battery pack, Electrical Design, Mechanical Design, Thermal Conditions, Thermal Design of Battery & Testing Part 2, Battery Pack Calculations, and Battery Pack Modelling Using MATLAB modules. Pavan Srinivas has scored 88% marks in the final assessment of this course.

A handwritten signature in black ink, appearing to read "Sarvesh".

Sarvesh Agrawal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2024-06-27

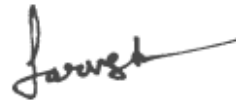
Certificate no. : 8hmgmxy61f2

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Certificate of Training

Pavan Srinivas Marri

from PBR Visvodaya Institute Of Technology & Science has successfully completed **Design of EV Using MATLAB®** course as a part of the Electric Vehicle. The course consisted of Power Required to overcome Resistance Forces acting on the vehicle, Power Converters in Electric Vehicles , Inverters in Electric Vehicles, Motor & Motor Controllers, Simscape Lead Acid Physical Modelling & EV Design, Simscape Hybrid EV Performance Evaluation and ADVISOR, and Revisiting EV Battery Systems modules. Pavan Srinivas has scored 100% marks in the final assessment of this course.

A handwritten signature in black ink, appearing to read "Sarvesh".

Sarvesh Agrawal
FOUNDER & CEO, INTERNSHALA

Date of certification: 2024-07-20

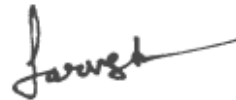
Certificate no. : 3bo5544wazf

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Certificate of Training

Pavan Srinivas Marri

from PBR Visvodaya Institute Of Technology & Science has successfully completed **Embedded systems** course as a part of the Electric Vehicle. The course consisted of Introduction, Embedded Communication, Hardware Module, Software Module, and Integration of Hardware and Software modules. Pavan Srinivas has scored 96% marks in the final assessment of this course.

A handwritten signature in black ink, appearing to read "Sarvesh".

Sarvesh Agrawal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2024-08-30

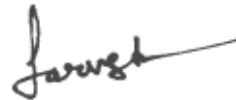
Certificate no. : 1wbvwcypctn

For certificate authentication, please visit https://trainings.internshala.com/verify_certificate

Certificate of Training

Pavan Srinivas Marri

from PBR Visvodaya Institute Of Technology & Science has successfully completed **EV Advanced Certification** course as a part of the Electric Vehicle. The course consisted of Electrical requirement, Power distribution specifications, Electronic control system, EV Standards and Classifications, and Selection for Electrical and Electronic Components modules. Pavan Srinivas has scored 84% marks in the final assessment of this course.

A handwritten signature in black ink, appearing to read "Sarvesh".

Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2023-11-12

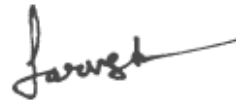
Certificate no. : dzgjn5fkvox

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Certificate of Training

Pavan Srinivas Marri

from PBR Visvodaya Institute Of Technology & Science has successfully completed **EV Business** course as a part of the Electric Vehicle. The course consisted of Introduction to EV (2W, 3W, & 4W) Market & Opportunities, EV Business Management, EV Retrofitting Business, EV Motor Study and Market Analysis, EV Testing Homologation Extended Learning, and EV Battery Market Analysis modules. Pavan Srinivas has scored 83% marks in the final assessment of this course.

A handwritten signature in black ink, appearing to read "Sarvesh".

Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2023-09-12

Certificate no. : dge5p8zcmte

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Certificate of Training

Pavan Srinivas Marri

from PBR Visvodaya Institute Of Technology & Science has successfully completed **EV Fundamentals** course as a part of the Electric Vehicle. The course consisted of Fundamentals of Electrical & Power Electronics, Essentials of EV Technology, Battery & Battery Management System (BMS), Motors & EV Components, EV Charging Infrastructure, and Electric Vehicle Calculations modules. Pavan Srinivas has scored 78% marks in the final assessment of this course.

A handwritten signature in black ink, appearing to read "Sarvesh".

Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2023-10-18

Certificate no. : a6zpw3y3yt

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Course Completion Certificate

Pavan Srinivas

has successfully completed the requirements of the course titled

Modeling and Control of Electric Vehicles with Simulink and Simscape



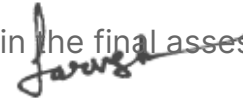
DIRECTOR, TRAINING SERVICES

29 January - 2 February 2024

Certificate of Training

Pavan Srinivas Marri

from PBR Visvodaya Institute Of Technology & Science has successfully completed **MATLAB® Based EV Architecture Modelling (Project Based)** course as a part of the Electric Vehicle. The course consisted of Assignment 1 - Buck Converter Design, Assignment 2 - Boost Converter, Assignment 3 - Buck Boost converter, Assignment 4 - 3 Phase & multi level Inverter Design and Modelling, Assignment 5 - Solar PV Based Charger, Assignment 6 - Induction motor, Assignment 7 - Motor Controller Design, Emission Norms for EV Design: Introduction & Chemistry, Motor, Controller, and Interfacing with the Hardware: Practical Demo, Battery Selection and Connection Process with Vehicle Sensors: Practical Demo, Vehicle Auxiliary Connection with Converter System: Practical Demo, and Integration of Hardware and Software: Practical Demo modules. Pavan Srinivas has scored 100% marks in the final assessment of this course.

A handwritten signature in black ink, appearing to read "Sarvesh", written over the text of the certificate.

Sarvesh Agrawal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2024-08-24

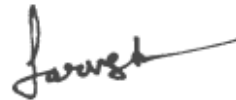
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For certificate authentication, please visit https://trainings.internshala.com/verify_certificate

Certificate of Training

Pavan Srinivas Marri

from PBR Visvodaya Institute Of Technology & Science has successfully completed **MATLAB® Certification Course** course as a part of the Electric Vehicle. The course consisted of Essentials of MATLAB, MATLAB Intermediate, Design, develop and plot in MATLAB, and MATHWORKS Certification modules. Pavan Srinivas has scored 95% marks in the final assessment of this course.

A handwritten signature in black ink, appearing to read "Sarvesh".

Sarvesh Agarwal
FOUNDER & CEO, INTERNSHALA

Date of certification: 2024-01-14

Certificate no. : 1vaf89zwemi

For certificate authentication, please visit https://trainings.internshala.com/verify_certificate