

Hindustan College of Science & Technology, Farah, Mathura
Department of Electrical and Electronics Engineering

HCST/EE/ 2022/ ODD

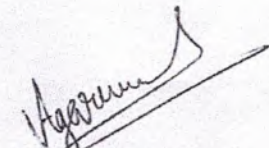
Date: 25/08/2022

NOTICE

All the students are hereby informed that the department of Electrical and Electronics Engineering is going to organize a training course in "**ELECTRIC VEHICLE**" (30 hrs. teaching+ practice session) in the department from 03-09-2022.

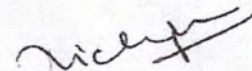
Registration will be open from **29 August, 2022 to 02 September, 2022**. Please insure that you complete your registration within this time frame.

For any further any inquiries or clarifications regarding registration, kindly reach out Mr. Sunil Pathak, Office Staff, department of EEE.



Mr. Vivek Agrawal

Course Coordinator



Mrs. Richa Kapoor

HOD. EEE. Deptt.

Head
Dept. of Electrical & Electronics Engg.
Hindustan College of Science & Technology
Farah, Mathura



Director
Hindustan College of
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FARAH (MATHURA)



HINDUSTAN COLLEGE OF SCIENCE & TECHNOLOGY,
FARAH -MATHURA



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Value Added Course
VEE2201 – ELECTRIC VEHICLE

3rd Sept '2022 – 7th JAN 2023 - Every Saturday: 3:00 PM – 5:00 PM

Students From Any Branch Can Join the Course



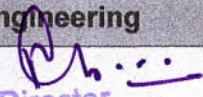
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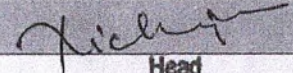
Mr. Vivek Agrawal
Assistant Professor, Electrical & Electronics Engineering
Research Interest: Control System

Registration Dates
29st AUG 2022 –2nd Sept2022

For Registration: Please contact
Mr. Sunil Pathak, Office Staff, Department of EEE

Prerequisites: Basics Electrical Engineering


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Course Objectives

The main objective of this value added course are as follows:\

1. The course aims to provide a comprehensive understanding of the basic principles and components of electric vehicles (EVs).
2. The objective focuses on evaluating the environmental benefits and energy efficiency of electric vehicles compared to conventional internal combustion engine vehicles.
3. The objective aims to delve into the design and engineering aspects specific to electric vehicles.
4. The objective focuses on the charging infrastructure required to support electric vehicles.
5. The objective aims to provide insights into the policy framework and market dynamics shaping the adoption and growth of electric vehicles.

Prerequisites: Basic Electrical Engineering

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Value Added Course

VEE2201 – ELECTRIC VEHICLE

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Course Syllabus

Units	Details	Course Out comes
1	Introduction to Electric Vehicles : Overview of Electric Vehicles, Definition and history of electric vehicles, Advantages and challenges of electric vehicles, Types of electric vehicles: BEVs, PHEVs, and HEVs, Electric vehicle architecture and system overview, Electric powertrain components: batteries, electric motors, power electronics, Energy storage systems: lithium-ion batteries, super capacitors, Overview of charging infrastructure for electric vehicles, Types of charging stations: Level 1, Level 2, and DC fast charging, Charging standards: CCS, CHAdeMO, Tesla Supercharger, etc.	CO1
2	Electric Vehicle Technology : Electric Motors and Controllers, Types of electric motors used in electric vehicles, Motor characteristics and performance parameters, Motor controllers and their role in controlling motor operation, Battery Technologies, Lithium-ion battery chemistry and operation, Battery pack design and management systems, Battery charging and discharging characteristics, Power electronics components and their functions, DC-DC converters and inverters in electric vehicles, Power electronics control strategies and efficiency optimization	CO2
3	Electric Vehicle Design and Manufacturing : Electric Vehicle Design Considerations, Vehicle platform selection and integration, Safety considerations in electric vehicle design, Aerodynamics and energy efficiency optimization, Electric Vehicle Manufacturing Processes, Manufacturing techniques for electric vehicle components, Assembly processes for electric vehicle production, Quality control and testing in electric vehicle manufacturing, Electric Vehicle Safety and Regulations, Safety standards and regulations for electric vehicles, Crash testing and safety features in electric vehicles, Battery safety and handling considerations	CO3
4	Electric Vehicle Infrastructure and Charging : Charging Infrastructure Planning, Infrastructure planning for residential, commercial, and public charging, Grid integration and smart charging solutions, Managing peak loads and demand response strategies, Charging Station Installation and Maintenance, Charging station installation requirements and considerations, Safety regulations and guidelines for charging infrastructure, Maintenance and troubleshooting of charging stations, Vehicle-to-Grid (V2G) and Vehicle-to-Home (V2H) Technologies, Introduction to V2G and V2H concepts, Benefits and applications of V2G and V2H technologies, Challenges and future prospects of V2G and V2H	CO4
5	Electric Vehicle Market and Future Trends : Market Trends and Economics of Electric Vehicles, Global and regional electric vehicle market analysis, Government policies and incentives driving electric vehicle adoption, Total cost of ownership and economic considerations, Recent advancements in electric vehicle technology, Battery advancements: solid-state batteries, new chemistries, Autonomous driving and connected vehicle technologies, Future trends and developments in electric vehicles, Environmental sustainability and lifecycle analysis, Addressing infrastructure challenges and range anxiety	CO5

Prerequisites: Basic Electrical Engineering

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Value Added Course
VEE2201 – ELECTRIC VEHICLE

3rd Sept '2022 – 7th JAN 2023 - Every Saturday: 3:00 PM – 5:00 PM

Course Outcomes

- CO1** Students will gain a comprehensive understanding of the key principles and concepts underlying electric vehicle technology. This includes knowledge of electric motors, batteries, power electronics, and energy management systems in electric vehicles.
- CO2** Students will learn how to analyze and evaluate the performance of various electric vehicle systems, including range, efficiency, power delivery, and charging infrastructure. They will develop skills in conducting performance tests and interpreting the results to assess the overall performance and efficiency of electric vehicles.
- CO3** This course will equip students with the skills to design and implement electric vehicle components and systems. They will learn about the design considerations for electric vehicle motors, batteries, power electronics, and control systems. Students will gain practical experience in designing electric vehicle systems through hands-on projects and simulations..
- CO4** Students will learn to identify the challenges and explore potential solutions. They will study emerging technologies and trends in electric vehicle development to address issues such as range anxiety, battery degradation, and charging infrastructure expansion.
- CO5** Students will be able to evaluate the overall benefits and challenges associated with the widespread adoption of electric vehicles.

CO-PO Mappings

CO5	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3												2	3
CO2	3	3	3										3	2
CO3	3	3	3		3	3						3	3	3
CO4	3	3	3		3	3						3	3	3
CO5	3	3	3		3	3						3	3	3
Average	3	3	3		3	3						3	3	2.8

Evaluation Criteria: 1. Evaluation of Practical assignments, Group project, Viva/Quiz

Agreement

[Signature]
Director
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HINDUSTAN COLLEGE OF SCIENCE & TECHNOLOGY, FARAH -MATHURA
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Value Added Course
VEE2201 – ELECTRIC VEHICLE

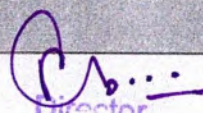


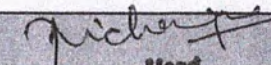
3rd Sept '2022 – 7th JAN 2023 - Every Saturday: 3:00 PM – 5:00 PM

Program Schedule

Session	Date	Time	No of Hours	Session Topic	Resource Person
1	03/09/22	3:00 PM - 5:00 PM	2	Overview of Electric Vehicles	Mr. Vivek Agrawal
2	10/09/22	3:00 PM - 5:00 PM	2	Electric Vehicle Components	Mr. Vivek Agrawal
3	17/09/22	3:00 PM - 5:00 PM	2	Charging Infrastructure	Mr. Vivek Agrawal
4	24/09/22	3:00 PM - 5:00 PM	2	Electric Motors and Controllers	Mr. Vivek Agrawal
5	01/10/22	3:00 PM - 5:00 PM	2	Battery Technologies	Mr. Vivek Agrawal
6	08/10/22	3:00 PM - 5:00 PM	2	Power Electronics in Electric Vehicles	Mr. Vivek Agrawal
7	22/10/22	3:00 PM - 5:00 PM	2	Electric Vehicle Design Considerations	Mr. Vivek Agrawal
8	05/11/22	3:00 PM - 5:00 PM	2	Electric Vehicle Manufacturing Processes	Mr. Vivek Agrawal
9	12/11/22	3:00 PM - 5:00 PM	2	Electric Vehicle Safety and Regulations	Mr. Vivek Agrawal
10	19/11/22	3:00 PM - 5:00 PM	2	Charging Infrastructure Planning	Mr. Vivek Agrawal
11	26/11/22	3:00 PM - 5:00 PM	2	Charging Station Installation and Maintenance	Mr. Vivek Agrawal
12	10/12/22	3:00 PM - 5:00 PM	2	Vehicle-to-Grid (V2G) and Vehicle-to-Home (V2H) Technologies	Mr. Vivek Agrawal
13	17/12/22	3:00 PM - 5:00 PM	2	Market Trends and Economics of Electric Vehicles	Mr. Vivek Agrawal
14	24/12/22	3:00 PM - 5:00 PM	2	Emerging Technologies in Electric Vehicles	Mr. Vivek Agrawal
15	31/12/22	3:00 PM - 5:00 PM	2	Future Outlook and Challenges	Mr. Vivek Agrawal
16	07/01/23	3:00 PM - 5:00 PM	2	Battery Technology	Mr. Vivek Agrawal
Total Number of Hours covered			32		

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Hindustan College of Science and Technology - Mathura
Electrical and Electronics Department
CLASS TIME TABLE FOR ODD SEMESTER 2022-23

SESSION:2022-23

W.E.F : 25-8-2022

CLASS TEACHER: Mr. Vineet Kumar

YEAR/SEM-SEC: 2nd Year/ 3rd Sem

ROOM.NO : 108

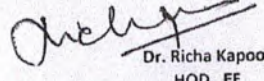
COUNSELLORS : Mr. Vineet Kumar

Time / Day	I	II	III	IV	V	VI	VII	VIII	
	09:40 TO 10:30	10:30 TO 11:20	11:20 TO 12:10	12:10 TO 01:00					01:00 TO 01:30
MONDAY	EMI VK 108	EMFT HP 108	Maths-IV HS 108	TC KD 108	LUNCH	PDP		BSS AS 108	BSS AS 108
TUESDAY	Maths-IV HS 108	EMFT HP 108	EMI VK 108	SKD LAB		TC KD 108		EW LAB AS 106	
WEDNESDAY	EMI VK 108	Maths-IV HS 108	BSS AS 108	TC KD 108		EMFT HP 108	EMFT HP 108	AE LAB HP	
THURSDAY	EMI VK 108	BSS AS 108	BSS AS 108	EMI VK 108		TC (T) KD 108	Maths-IV HS 108	MINI PROJECT LAB (VK)	
FRIDAY	EMFT HP 108	PDP		Maths-IV HS 108		BSS AS 108	EMI LAB (VK)		LIB
SATURDAY	Activity Day							Value Added Course Mr. Vivek Agarwal 101	

Name of the Subject	Subject Code	Name of the Faculty	Total No. of Lect./Tut./Practical		
			Lect.	Tut.	Pract.
Technical Communication	KAS301	Dr. Keshav Dev	3	1	0
Maths IV	KAS302	Dr. Harendra Singh	4	1	0
Electromagnetic Field Theory (EMFT)	KEE301	Mr. Himanshu Rajput	4	1	0
Electrical Measurements & Instrumentation	KEE302	Mr. Vineet Kumar	4	0	0
Basic Signals & Systems (BSS)	KEE303	Mr. Avnish Singh	4	0	0
Computer System Security	KNC301	Mr. Atul Barsaiyan	3	0	0
Analog Electronics Lab (AE)	KEE351	Mr. Himanshu Rajput			2
Electrical Measurements & Instrumentation Lab	KEE352	Mr. Vineet Kumar			2
Electrical Workshop Lab (EW)	KEE353	Mr. Avnish Singh			2
Mini Project (MP)	KEE354	Mr. Vineet Kumar			2
Value Added Course	VEE2201	Mr. Vivek Agarwal			2
PDP		T & D Deptt.			4

Mr. Avnish Singh
Time Table Incharge


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 Dr. Richa Kapoor
 HOD, EE
 Dept. of Electrical & Electronics Engg.
 Hindustan College of Science & Technology
 Farah, Mathura

Hindustan College of Science and Technology - Mathura

Department Name: Electrical & Electronics Engg.

CLASS TIME TABLE FOR ODD SEMESTER 2022-23

SESSION: 2022-23

W.E.F : 25-8-2022

CLASS TEACHER: Dr. Sanjeev Kumar

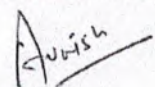
YEAR/SEM-SEC: 4th /7th SEM

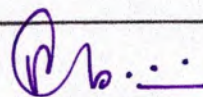
ROOM.NO : 104

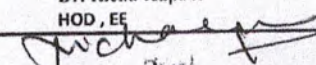
COUNSELLORS : Dr. Sanjeev Kumar

Time / Day	I	II	III	IV	01:00 TO 01:30	V	VI	VII	VIII		
	09:40 TO 10:30	10:30 TO 11:20	11:20 TO 12:10	12:10 TO 01:00		01:30 TO 02:20	02:20 TO 03:00	03:00 TO 04:00	04:00 TO 05:00		
MONDAY	HVDC & AC	RD	1A & PLC LAB		LUNCH	RER	PROJECT				
	104	104	110			104					
	AS	DK	RK			DJ					
TUESDAY	RD	RER	MINI PROJECT			PSP	PROJECT				
	104	104	110			104					
	DK	DJ	RK			RK					
WEDNESDAY	HVDC & AC	PDP		PSP		LUNCH	PROJECT (VK)		PROJECT		
	104			104							
	AS			RK							
THURSDAY	RD	PSP	RER	HVDC & AC			LUNCH	PDP		PROJECT	
	104	104	104	104							
	DK	RK	DJ	AS							
FRIDAY	RER	PSP	RD	HVDC & AC	LUNCH			PROJECT			
	104	104	104	104							
	DJ	RK	DK	AS							
SATURDAY	Activity Day							Value Added Course Mr. Vivek Agarwal 101			

Name of the Subject	Subject Code	Name of the Faculty	Total No. of Lect./Tut./Practical in Subject		
			Lect.	Tut.	Pract.
HVDC & AC Transmission	KEE072	Mr. Avnish Singh	4	0	0
Power System Protection	KEE077	Dr. Richa Kapoor	4	0	0
Renewable Energy Resources	KOE-074	Mr Dilip Johari	4	0	0
Rural Development	KHU-701	Mr Dinesh Kumar	4	0	0
Industrial Auto & PLC Lab	KEN - 751	Dr. Richa Kapoor	0	0	2
Mini Project or Internship Assessment	KEN - 752	Dr. Richa Kapoor	0	0	2
PROJECT -I	KEN - 753	EE FACULTY	0	0	8
Value Added Course	VEE2201	Mr. Vivek Agarwal	0	0	2
PDP		T & D Deptt.	0	0	2


Mr. Avnish Singh
Time Table Incharge


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Hindustan College of Science and Technology - Mathura
Electrical and Electronics Department
CLASS TIME TABLE FOR ODD SEMESTER 2022-23

SESSION: 2022-23
 YEAR/SEM-SEC: 3rd Year/ 5th Sem

W.E.F : 25-8-2022
 ROOM.NO : 107

CLASS TEACHER: Mr. Avnish Singh
 COUNSELLORS : Mr. Avnish Singh

Time / Day	I	II	III	IV	01:00 TO 01:30	V	VI	VII	VIII
	09:40 TO 10:30	10:30 TO 11:20	11:20 TO 12:10	12:10 TO 01:00		01:30 TO 02:20	02:20 TO 03:00	03:00 TO 04:00	04:00 TO 05:00
MONDAY	PS-I SK 107	EM-II RK 107	CS AS 107	S & T VK 107	LUNCH	CS AS 107		PS-I LAB SK 110	
TUESDAY	PS-I SK 107	PDP		ADC VK 107		CS AS 107	EM-II RK 107	ADC VK 107	LIB
WEDNESDAY	PS-I SK 107	CS LAB AS 111				PS-I SK 107	EM-II RK 107	S & T VK 107	S & T VK 107
THURSDAY	CS AS 107	ADC VK 107	EM-II LAB RK 109			Mini Project VK 106		EM-II RK 107	PS-I (T) SK 107
FRIDAY	ADC VK 107	S & T VK 107		EM-II (T) RK 107		PDP		CS AS 107	LIB
SATURDAY	Activity Day							Value Added Course Mr. Vivek Agarwal 101	

Name of the Subject	Subject Code	Name of the Faculty	Total No. of Lect./Tut./Practical		
			Lect.	Tut.	Pract.
Power System I	KEE-501	Dr. Sanjeev Kumar (SK)	4	1	0
Control System (CS)	KEE-502	Mr. Avnish Singh (AS)	4	1	0
Electrical Machines - II (EM-II)	KEE-503	Dr. Richa Kapoor (RK)	4	1	0
Sensors & Transducers	KEE-052	Mr. Vineet Kumar (VK)	4	0	0
Analog & Digital Communication	KEE-058	Mr. Vineet Kumar (VK)	4	0	0
Indian Tradition, Culture and Society	KNC-502	Dr. Archana Gautam (AG)	3	0	0
Power System I lab	KEE-551	Dr. Sanjeev Kumar (SK)			2
Control System Lab (CS Lab)	KEE-552	Mr. Avnish Singh (AS)			2
Electrical Machines - II Lab (EM-II Lab)	KEE-553	Dr. Richa Kapoor (RK)			2
Mini Project	KEN-554	Mr. Vineet Kumar (VK)			2
Value Added Course	VEE2201	Mr. Vivek Agarwal			2
PDP		T & D Deptt.			4

Avnish
 Mr. Avnish Singh
 Time Table Incharge

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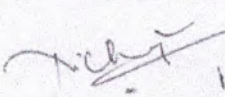
Value Added Course - Registration Form

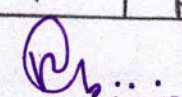
Course Name: Electric Vehicle Course Code: VEE2201

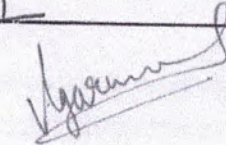
Session 2022-23

From August 2022 to November 2022

Sr. No.	Roll No.	Name	Department	Semester	Signature of Student
1	2100640210003	Aman Kushwah	EEE	III	Aman
2	2100640210004	Ankit Vikarwar	EEE	III	Ankit
3	2100640210005	Apeksha Chitransh	EEE	III	Apeksha
4	2100640210006	Harmanjot Singh	EEE	III	Harmanjot
5	2100640210008	Shivam Verma	EEE	III	Shivam
6	2100640210009	Shivansh Jindal	EEE	III	Shivansh
7	2100640210010	Suraj Kumar	EEE	III	Suraj
8	2200640219002	Devesh Chauhan	EEE	III	Devesh Chauhan
9	2200640219003	Vansh Aryan	EEE	III	Vansh Aryan
10	2200640219001	Arti Gautam	EEE	III	Arti Gautam
11	2000640210001	Amit Gahan	EEE	V	Amit
12	2000640210002	Kunal Joshi	EEE	V	Kunal
13	2000640210004	Sachin Singh	EEE	V	Sachin
14	2100640219002	Lakshya Bhardwaj	EEE	V	Lakshya
15	2100640219003	Rishabh Kumar	EEE	V	Rishabh
16	2100640219001	Aman Singh Sikarwar	EEE	V	Aman


Head of Department
Electrical & Electronics Engineering
Hindustan College of Science & Technology
Farah, Mathura


Director
Hindustan College of
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Hindustan College of Science & Technology

Department of Electrical & Electronics Engineering

Value Added Course - Attendance Sheet

Course Name: Electrical Vehicle Course Code: VEE2201

Session 2022-23 (Year 2022)

Session wise Attendance Sheet

S. No.	Roll No.	Name	SEM	Signature of the Students																	
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15			
				03/09	10/09	17/09	24/09	01/10	08/10	15/10	22/10	29/10	05/11	12/11	19/11	26/11	03/12	10/12	17/12	24/12	31/12
1	2100640210003	Aman Kushwah	III	Aman	Aman	Aman	Aman	Aman	A	Aman	Aman	Aman	A	Aman	Aman	Aman	Aman	Aman	Aman	Aman	Aman
2	2100640210004	Ankit Vikarwar	III	Ankit	Ankit	Ankit	A	Ankit	Ankit	Ankit	Alexis	A	Ankit	Ankit	Ankit	A	Ankit	Ankit	Ankit	Ankit	Ankit
3	2100640210005	Apeksha Chitransh	III	Apeksha	Apeksha	A	Apeksha	Apeksha	Apeksha	A	Apeksha	Apeksha	Apeksha	Apeksha	Apeksha	Apeksha	Apeksha	Apeksha	Apeksha	Apeksha	Apeksha
4	2100640210006	Harmanjot Singh	III	Harmanjot	Harmanjot	Harmanjot	A	Harmanjot	Harmanjot	Harmanjot	Harmanjot	A	Harmanjot	Harmanjot	Harmanjot	Harmanjot	Harmanjot	Harmanjot	Harmanjot	Harmanjot	A
5	2100640210008	Shivam Verma	III	Shivam	Shivam	A	Shivam	Shivam	Shivam	Shivam	A	Shivam	Shivam	Shivam	Shivam	Shivam	Shivam	Shivam	Shivam	Shivam	A
6	2100640210009	Shivansh Jindal	III	Shivansh	A	Shivansh	Shivansh	Shivansh	Shivansh	Shivansh	Shivansh	Shivansh	Shivansh	Shivansh	Shivansh	Shivansh	Shivansh	Shivansh	Shivansh	Shivansh	Shivansh
7	2100640210010	Suraj Kumar	III	Suraj	Suraj	A	Suraj	Suraj	Suraj	Suraj	A	Suraj	Suraj	Suraj	Suraj	Suraj	Suraj	Suraj	Suraj	Suraj	Suraj
8	2200640219002	Devesh Chauhan	III	Devesh	A	Devesh	Devesh	Devesh	A	Devesh	Devesh	A	Devesh	Devesh	Devesh	Devesh	A	Devesh	Devesh	Devesh	Devesh
9	2200640219003	Vansh Aryan	III	Vansh	Vansh	Vansh	A	Vansh	Vansh	A	Vansh	Vansh	Vansh	Vansh	Vansh	Vansh	Vansh	Vansh	Vansh	Vansh	Vansh
10	2200640219001	Arti Gautam	III	Arti	Arti	A	Arti	Arti	A	Arti	Arti	Arti	A	Arti	Arti	Arti	A	Arti	Arti	Arti	Arti
11	2000640210001	Amit Gahan	V	Amit	A	Amit	Amit	Amit	Amit	Amit	A	Amit	Amit	Amit	Amit	Amit	A	Amit	Amit	Amit	Amit
12	2000640210002	Kunal Joshi	V	Kunal	Kunal	A	Kunal	Kunal	Kunal	Kunal	Kunal	A	Kunal	Kunal	Kunal	Kunal	Kunal	Kunal	Kunal	Kunal	A
13	2000640210004	Sachin Singh	V	Sachin	A	Sachin	Sachin	Sachin	Sachin	A	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	A	Sachin	Sachin	Sachin	Sachin
14	2100640219002	Lakshya Bhardwaj	V	Lakshya	Lakshya	Lakshya	Lakshya	A	Lakshya	Lakshya	Lakshya	Lakshya	A	Lakshya	Lakshya	Lakshya	A	Lakshya	Lakshya	Lakshya	Lakshya
15	2100640219003	Rishabh Kumar	V	A	Rishabh	Rishabh	A	Rishabh	Rishabh	Rishabh	Rishabh	Rishabh	Rishabh	Rishabh	Rishabh	Rishabh	A	Rishabh	Rishabh	Rishabh	Rishabh
16	2100640219001	Aman Singh Sikarwar	V	Aman	Aman	A	Aman	Aman	A	Aman	Aman	Aman	Aman	Aman	Aman	Aman	Aman	Aman	Aman	Aman	Aman

(Signature)
 Head of Department
 Electrical & Electronics Engineering
 Hindustan College of Science & Technology
 Farah, Mathura

(Signature)
 Director
 Hindustan College of
 Science & Technology
 FARAH (MATHURA)

(Signature)



Department of Electrical & Electronics Engineering

Certificate

OF COMPLETION

This is to certify that

Aman Kushwah

Department of Electrical and Electronics
Engineering has successfully completed 30 hours of Value Added Course (VEE
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"ELECTRIC VEHICLE"

Session – 2022- 23

Roll No.-
2100640210003

Dr. R. K. Upadhyay
Director

Mr. Vivek Agrawal
Coordinator

Dr. Richa Kapoor
HOD -EEE

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