ACADEMIC PARTNER

Ccentric Learning Edge

"Empowering young minds to lead India's green mobility revolution"

DEV BHOOMI UTTARAKHAND UNIVERSITY DEHRADUN

PLACEMENT-LED INDUSTRY-INTEGRATED B.Tech Program

Specialisation:

Electric Vehicle Technology (EVT)

Hydrogen and Fuel Cell Technology (HFCT)

Admission open for

Session 2026 - 27

About Us

Ccentric Learning Edge Private Limited (CLE) is an industry-focused education and training organization in India, dedicated to bridging the gap between conventional academic learning and real-world industry requirements. CLE specializes in designing and delivering industry-integrated engineering programs, with strong emphasis on Electric Vehicle Technology (EVT), Hydrogen Fuel Cell Technology (HFCT), and emerging mobility and energy systems.

CLE works closely with universities to co-create NEP-2020 aligned curricula, establish advanced laboratories, deploy industry-experienced faculty, and provide hands-on learning through projects, internships, and on-the-job training. Its pedagogy is rooted in Outcome-Based Education (OBE), practical skill development, and continuous industry engagement, ensuring students graduate as job-ready engineers.

With a strong focus on applied learning, technology relevance, and placement facilitation, CLE supports universities in building future-ready academic programs while contributing to India's clean mobility, energy transition, and advanced manufacturing ecosystem.

Vision

Engineering the future of motion - advancing electric and hydrogen technologies to power sustainable mobility and a net-zero world.

Mission

- To deliver industry-aligned education in EVT, HFCT and emerging mobility technologies.
- To promote hands-on, outcome-based learning through advanced labs and industry integration.
- To develop skilled engineers driving sustainable mobility and clean energy innovation.

CLE Leadership

Mr. Sachin Sangal, Chairman and Managing Director, Ccentric Learning Edge Private Limited (CLE) is shaping a new benchmark in industry-integrated engineering education. With over 28 years of experience spanning the automotive and education sectors, he combines technical expertise, strategic foresight and a strong commitment to innovation-driven learning. Under his direction, CLE has emerged as a pioneer in Electric Vehicle Technology (EVT) and Hydrogen Fuel Cell Technology (HFCT) education, advancing Industry 4.0 skill development and experiential training.

Mr. Sangal's vision focuses on bridging the gap between academic knowledge and real-world industry requirements through advanced laboratories, strategic industry partnerships and placement-oriented programs. By aligning education with national initiatives and global clean mobility trends, he aims to develop future-ready engineers capable of driving sustainable mobility, clean energy innovation and next-generation engineering solutions.

OUR CORE TEAM

Dr. Pushpendra Singh is an academic leader and strategic professional with over 21 years of experience in engineering education, research, academic leadership, and institutional development. He currently serves as Director - Strategic Planning and Partnerships, where he focuses on advancing institutional growth through strategic collaborations, academic innovation and industry-academia engagement. He holds a Ph.D. and M.Tech. in Electrical Engineering from MNIT Jaipur and a B.E. from the University of Rajasthan, Jaipur, with an additional PGP in Artificial Intelligence and Machine Learning from NIT Warangal. His professional experience includes leadership roles as Program Director, Professor, Head of Department, and Principal across reputed institutions. His expertise spans energy systems, smart grids, electric mobility and distributed energy resources, with significant contributions to curriculum innovation, research initiatives and the establishment of Center of Excellence. A Senior Member of IEEE, Senior Member of IIIE and Fellow of IE(India), he is committed to fostering innovation, sustainability and impactful academic ecosystems.

Dr. Prashant Kumar is an accomplished academic professional with over 16 years of experience in engineering education, research and academic leadership. He currently serves as Chief Academic Officer, where he leads academic strategy, program development and institutional academic governance. He holds a Ph.D. in Electrical Engineering from Maharana Pratap University of Agriculture and Technology, Udaipur, M.Tech. from NITTTR Chandigarh and B.E. in Electrical Engineering from the University of Rajasthan, Jaipur. His professional experience includes roles such as Associate Professor, Head of Department, Program Director and Research Coordinator, where he has contributed to curriculum development, establishment of laboratories, academic coordination and placement initiatives. His research interests include Energy Storage, Demand Side Management, Electric Vehicle Integration, Distributed Energy Resources and Smart Grid. He is a Senior Member-IEEE and Life Member - Institution of Engineers (India). He has published several research papers in reputed journals and conferences and holds several patents and design grants, reflecting his commitment to research, innovation and academic excellence.

DEV BHOOMI
—UTTARAKHAND—
UNIVERSITY

Dev Bhoomi Uttarakhand University (DBUU), located in the academic hub of Dehradun, Uttarakhand, is a forward-looking multidisciplinary university committed to nurturing innovation, excellence and industry-ready professionals. The university offers a wide range of undergraduate, postgraduate and doctoral programs in Engineering, Management, Computer Applications, Pharmacy, Agriculture, Law, Architecture and Allied Sciences. Recognized by the University Grants Commission (UGC), DBUU maintains high standards of academic quality and professional education.

The university emphasizes experiential learning, interdisciplinary research and strong industry collaboration to prepare students for emerging technological and professional domains. With modern infrastructure, advanced laboratories, smart classrooms and a vibrant academic ecosystem, DBUU provides students with a dynamic learning environment. Through industry partnerships, internships and skill development initiatives, the university focuses on nurturing competent professionals equipped to address real-world

Mr. Sanjay Bansal - President (DBUU)

Mr. Sanjay Bansal is a renowned name in the field of technical education in North India. He started his entrepreneurship in the field of education in 2005 with an establishment of AICTE approved Institute in the name of Dev Bhoomi Institute of Technology in Manduwala, Chakrata Road, Dehradun. After running the Institute successfully for one year; he established a chain of Institutes by the name of Dev Bhoomi Institute of Management Studies in 2006, Dev Bhoomi Institute of Pharmacy & Research and Dev Bhoomi Institute of Applied Sciences in 2007, Dev Bhoomi Institute of Technology and Engineering in 2008, Diploma College with strong infrastructure and academic strength in the name of Dev Bhoomi Institute of Polytechnic in 2012, Dev Bhoomi Institute of Management Studies in 2014, Dev Bhoomi School of Architecture in 2016, Dev Bhoomi Medical College of Ayurveda & Hospital in 2017, Dev Bhoomi School of Architecture & Design in 2019, Dev Bhoomi School of Business Management and Dev Bhoomi Institute of Hotel Management in 2020 with an addition of varied courses in these schools each year.

In the year 2021, “Dev Bhoomi Group of Institution”, Dehradun was awarded the status “Dev Bhoomi Uttarakhand University” by the Government of Uttarakhand in September, 2021. University’s Dehradun campus houses more than 6000 students.

Mr. Aman Bansal
Vice President (DBUU)

Over a long journey of 20+ years of pushing the boundaries of knowledge and innovation, we have built a place in Technical, Management, Journalism, Hotel Management Education with a focus on quality via up-to-date coursework and lectures teaching techniques backed by appropriate lab elements. We are dedicated to raising our infrastructure and framework to top-notch levels in order to provide the best academic and professional resources to prepare our students for a great journey ahead. The university encourages education with industrial connections and emphasizes research activities. We try to give students an opportunity to achieve their goals by encouraging them to do internships and engage in Industry Trips, Conferences, Seminars, and Workshops in order to ensure that they develop in a variety of ways.

DBUU strives to deliver a world-class learning environment for our students, and our multi-disciplinary facility provides them with a large canvas to create their careers, encouraging them to flourish in their chosen profession with the help of our dedicated professors. The knowledgeable faculty of DBUU has made the transition to online educational modes of teaching and is prepared to keep the teaching-learning processes running in any situation.

Dr. Ajay Kumar
Vice Chancellor (DBUU)

As DBUU works diligently towards its mission of providing best learning, teaching and research opportunities to the students and academicians equally, it continues to impart students with the basics of modern knowledge and high values.

Our execution at DBUU is in all disciplines including Engineering & Technology, Medical, Architecture & Design, Agriculture & Applied Sciences, Management & Commerce, Pharmaceutical Sciences, Arts and much more. The programs are focused on one to one teaching learning experience. Each and every candidate has an opportunity to enhance their knowledge and skill set.

Our focus is on the holistic development of students, through a judicious blend of co-curricular and extracurricular activities. The teaching pedagogy followed is interactive in nature with emphasis on hands on training and skill development. Our programs are hosted at Dev Bhoomi Uttarakhand University residential campus located in Dehradun having some of the finest amenities to make learning a life transforming experience.

I would ask you take advantage of this great opportunity and join us in our endeavor and contribute meticulously. I look forward to welcoming you at DBUU.

CERTIFICATE OF COLLABORATION

DEV BHOOMI
—UTTARAKHAND—
UNIVERSITY
(Estd. by Govt. of Uttarakhand vide DBU University Act No. 17 of 2021)

21 years of Academic Excellence

CERTIFICATE OF AUTHORIZATION

This is to certify that

Mr. Sachin Sangal

Ccentric Learning Edge Private Limited

Aadhaar/CIN No. 7305 7038 0628 PAN No. AUTPS0781K

having Reg No.: CON2503

is an authorised partner to counsel the students for admissions in UG & PG Course offered by

DEV BHOOMI UTTARAKHAND UNIVERSITY (SESSION 2026-27)

IMPORTANT NOTE

To ensure the transparency and security of all financial transactions, the authorized partner need to take payments only to the University's designated bank account. (A/C No.: 692701010050168, IFSC: UBIN0569275, Branch: Union Bank of India, Rampur, Bhauwala, Dehradun

DBUU

30-12-2026
Valid Date

Authorised Signature

B. TECH IN ELECTRICAL VEHICLE TECHNOLOGY

The B. Tech Electrical Vehicle Technology (EVT) program is a multidisciplinary engineering degree focused on electric mobility systems, battery technology, power electronics, vehicle electrification and intelligent transportation. The curriculum integrates electrical engineering, thermal sciences, embedded systems and digital engineering to develop strong analytical and design capabilities.

Through industry-aligned laboratories, simulation tools (MATLAB, CFD, CAD, CAN) and project-based learning, students gain hands-on experience in EV powertrains, battery management, charging infrastructure and vehicle electronics. The program prepares graduates for scientific, technology-driven careers in electric vehicles, energy systems and sustainable mobility sectors.

JOB OPPORTUNITIES

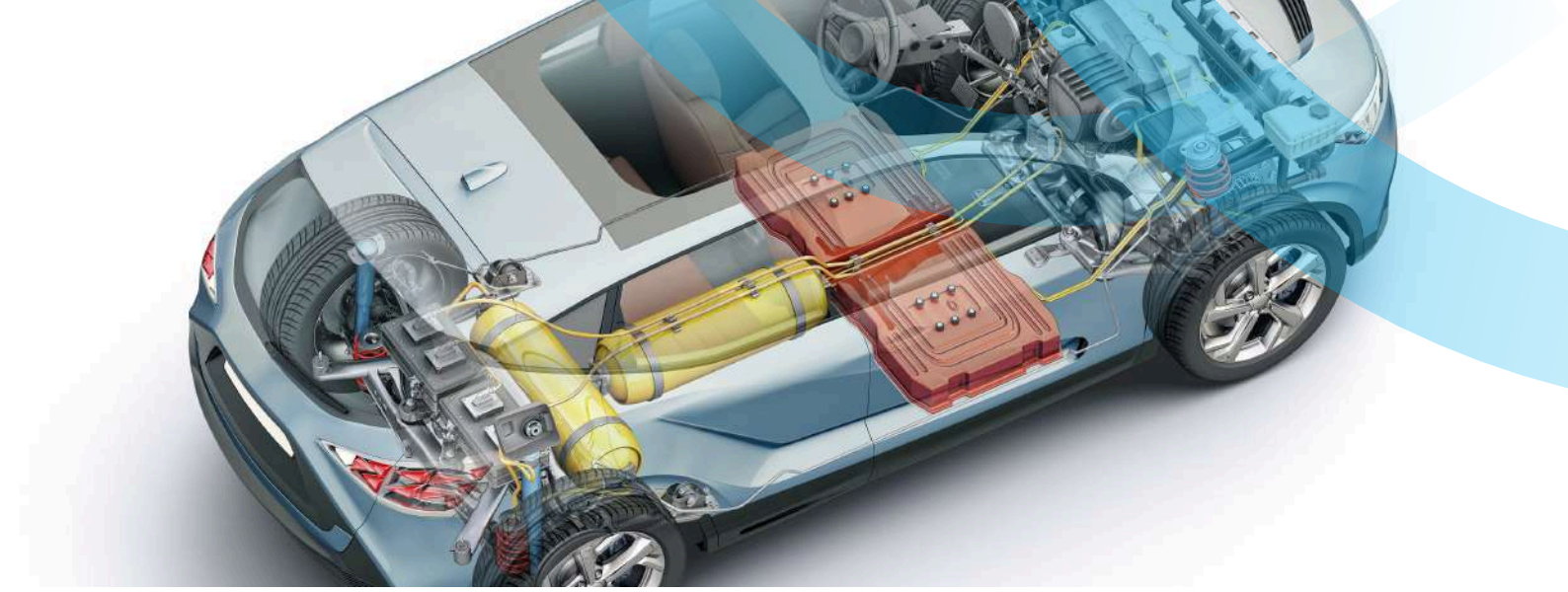
Target Industry Sectors	Job Roles
• Electric Vehicle & Automotive Manufacturing (OEMs) • Battery Technologies • Sustainable Energy Systems • Charging Stations • Robotics, Autonomous Mobility & Drone Technologies • Automotive Software & Digital Engineering Services • Simulation and Digital Twin Engineering • Research & Development, Testing and Certification • Start-ups and Innovation-driven Mobility Enterprises	• Electric Vehicle Systems Engineer (Powertrain, Battery, Charging & Integration) • Battery Management & Energy Storage Engineer (BMS, Safety, Thermal, Pack Integration) • Power Electronics & Electric Drives Engineer • Vehicle Electronics, Embedded Systems & CAN Diagnostics Engineer • CAD/CAE Design & Vehicle Architecture Engineer • Autonomous Systems / ADAS Engineer • EV Testing, Validation & Certification Engineer • Charging Infrastructure & Integration Engineer

PROGRAM STRUCTURE

Sem	Courses								Credits
i	English Communication Skills	Calculus and Linear Algebra)	Electro-chemistry	Electrical & Electronics Engineering	System Engineering	Engineering Drawing	Experienced Learning Project		21
ii	Professional Communication Skills	Differential Equations and Transform Calculus	Engineering Physics	Environmental Studies	Engineering Mechanics	Computer Programming	Societal Internship Project		21
iii	Network Theory	Analog and Digital Electronics	Instrumen-tation and IIoT	CAD & System Modeling	Computer based Numerical and Statistical Techniques	Principles of Management for Engineers	Self-Development and Behavioral Skills	Conceptual Project-I	22
iv	Electro-Mechanical Energy Conversion	Power Electronics	Control Systems and Electric Drives	Cell and Battery Engineering	Engineering Optimization	Principles of Economics	Self-Development and Report Writing	Conceptual Project-II	22
v	**Internship - I (4 to 6 Weeks Duration)**								2
	Battery Management Systems	Thermal Engineering	Materials for e-mobility	Vehicle Structure Design	Elective I	HS Elective-I	Applicative Project		22
vi	Thermal Management	Powertrain	Open Elective I	Open Elective I	Project-I	HS Elective-II			20
	Internship - II (6 to 8 Weeks Duration)								2
vii	Vehicle Electronics and software	Autonomous Vehicles and ADAS	Open Elective II	Elective III	Elective IV	Elective IV	Seminar		21
viii	**Practice School - III (16 Weeks Duration)**								12
Total									**165**

ELECTIVES

	Robotics	Drone	Lift, Escalator and Conveyor Systems
Elective I	Autonomous Robotic Systems	Drone Components and Systems	Vertical Transport Systems
Elective II	Robotic Programming and Simulation	Dynamics and Control of Drones	Conveyor Technologies
Elective III	Robotic System Design	Autonomous Drones	Maintenance and Safety of Vertical Transport Systems
Elective IV	Autonomous Robotic Systems	Design and Testing of Drones	Smart Elevators and IoT Integration
Open Elective I	**Open Elective II**	**HS-I**	**HS-II**
Fuel Cell & Hydrogen Energy	Vehicle Design and Architecture	Professional ethics	Technology management
Battery Integration with EVs	Vehicle Dynamics & Controls	Organizational Behavior	Entrepreneurship and Innovation
Safety Design	NVH (Noise, Vibration, Harshness) Design	Critical Interpretation of Literature and Cinema	Safety Design



B.TECH IN HYDROGEN AND FUEL CELL TECHNOLOGY (HFCT)

The B.Tech in Hydrogen and Fuel Cell Technology (HFCT) is a future-focused engineering program designed to develop specialized expertise in hydrogen energy systems, fuel cell technologies and clean mobility applications. Structured on an Outcome-Based Education (OBE) framework, the program integrates strong foundations in electrochemistry, thermodynamics, materials science and power electronics with advanced training in hydrogen production, storage, safety and system integration.

Aligned with global decarbonization goals and the National Green Hydrogen Mission, the curriculum covers the complete hydrogen value chain-from green hydrogen generation and fuel cell stack engineering to industrial deployment and mobility applications. Students gain hands-on experience through dedicated laboratories, simulation tools, industrial internships and practice-school immersion.

The program prepares graduates for roles in hydrogen plants, fuel cell system design, clean energy infrastructure, mobility OEMs and energy-intensive industries, contributing to sustainable energy transition and zero-emission engineering solutions.

JOB OPPORTUNITIES

Target Industry Sectors	Job Roles
Hydrogen Production & Green Hydrogen Plants	Hydrogen Production Engineer (Electrolysis & Reforming Systems)
Fuel Cell Manufacturing & System Integration Companies	Fuel Cell Systems Engineer (Stack Design & Integration)
Oil & Gas, Refineries & Petrochemical Industries	Green Hydrogen Plant Design Engineer
Steel, Fertilizer & Heavy Process Industries (Hydrogen Decarbonization)	Hydrogen Safety & Risk Assessment Engineer
Hydrogen Storage & Infrastructure Development Firms	Fuel Cell Testing & Validation Engineer
Mobility OEMs (Fuel Cell Electric Vehicles - FCEVs)	Hydrogen Storage & High-Pressure Systems Engineer
Energy PSUs & National Hydrogen Mission Projects	Hydrogen Infrastructure & Refueling Engineer
EPC (Engineering, Procurement & Construction) Companies	Process Simulation & Hydrogen Plant Modeling Engineer
Research & Development, Testing & Certification Bodies	Hydrogen Mobility / FCEV Integration Engineer
Clean-Tech Start-ups & Innovation-driven Energy Enterprises	Energy Systems & Decarbonization Consultant
	Hydrogen Project & Techno-Economic Analyst

PROGRAM STRUCTURE

Sem	Courses								Credits
I	English Communi-cation Skills	Calculus and Linear Algebra	Electro-chemistry	Electrical & Electronics Engineering	System Engineering	Engineering Drawing	Experienced Learning Project		21
II	Differential Equations and Transform Calculus	Engineering Physics	Environmental Studies	Engineering Mechanics	Instrument-ation and IIoT	Computer Programming	Societal Internship Project		21
III	CAD & System Modeling	Electrochemical Engineering	Thermal Engineering	Catalysts and Membrane Technologies	Fundamentals of Hydrogen Energy	Principles of Management for Engineers	Self-Development and Behavioral Skills	Conceptual Project-I	22
IV	Thermal Management Systems	Fuel Cell Technologies	Hydrogen Production Technologies	Hydrogen Storage Systems	Engineering Optimization	Principles of Economics	Self-Development and Report Writing	Conceptual Project-II	22
V	**Internship - I (4 to 6 Weeks Duration)**								2
	Power Electronics and Control System	Simulation & Digital Twin	Fuel Cell Stack Design & Diagnostics	Hydrogen Infrastructure & Distribution	Elective I	HS Elective-I	Applicative Project		22
VI	Fuel Cell Electric Vehicles	Hydrogen for Industrial Applications	Open Elective I	Elective II	Project-I	HS Elective-II			22
	Internship - II (6 to 8 Weeks Duration)								2
VII	Green Hydrogen & Renewable Coupling	Hydrogen for Heavy Mobility	Open Elective II	Elective III	Elective IV	Project-II	Seminar		21
VIII	Practice School - III (16 Weeks Duration)								12
Total									**165**

ELECTIVES

	Hydrogen Production & Process Engineering	Hydrogen Integration
Elective I	Electrolyzer Systems Engineering	Fuel Cell Powertrain Engineering
Elective II	Hydrogen Plant Design & Simulation	Hydrogen Refueling and Safety Systems
Elective III	Materials Hydrogen Systems	Fuel Cell Thermal & Diagnostic Engineering
Elective IV	Decarbonized Hydrogen Production	AI Applications in Hydrogen Systems

****Other electives may be included.**

Open Elective I	Open Elective II	HS-I	HS-II
Hydrogen Safety Engineering	Blue Hydrogen Systems Engineering	Professional ethics	Technology management
Hydrogen Economics & Policies	IoT and Smart Monitoring Systems	Organizational Behavior	Entrepreneurship and Innovation
		Critical Interpretation of Literature and Cinema	

****Other electives may be included.**

KEY FEATURES

- Industry-integrated curriculum aligned with NEP-2020 and Outcome-Based Education (OBE).
- Progressive experiential learning through Conceptual Projects and Applicative Projects.
- Dedicated laboratories and hands-on technical training.
- Structured Internships, Paid On-the-Job Training (OJT) and Industry Exposure.
- Focus on real-world engineering competencies, innovation and employability.

ELIGIBILITY CRITERIA FOR ADMISSION

The minimum academic eligibility criteria for admission into the Program shall be as follows:

- The student must have secured 70% or above aggregate marks in Class XII.
- The student must have studied Physics, Chemistry and Mathematics (PCM) as core subjects.

FEE STRUCTURE

Application Fee - 1,500
Admission Fee - 7,000 (One Time)
Tuition Fee - 2,25,000 INR (Annually)

CSAT (CCENTRIC SCHOLASTIC ASSESSMENT TEST)

Mode - Online (CBT)

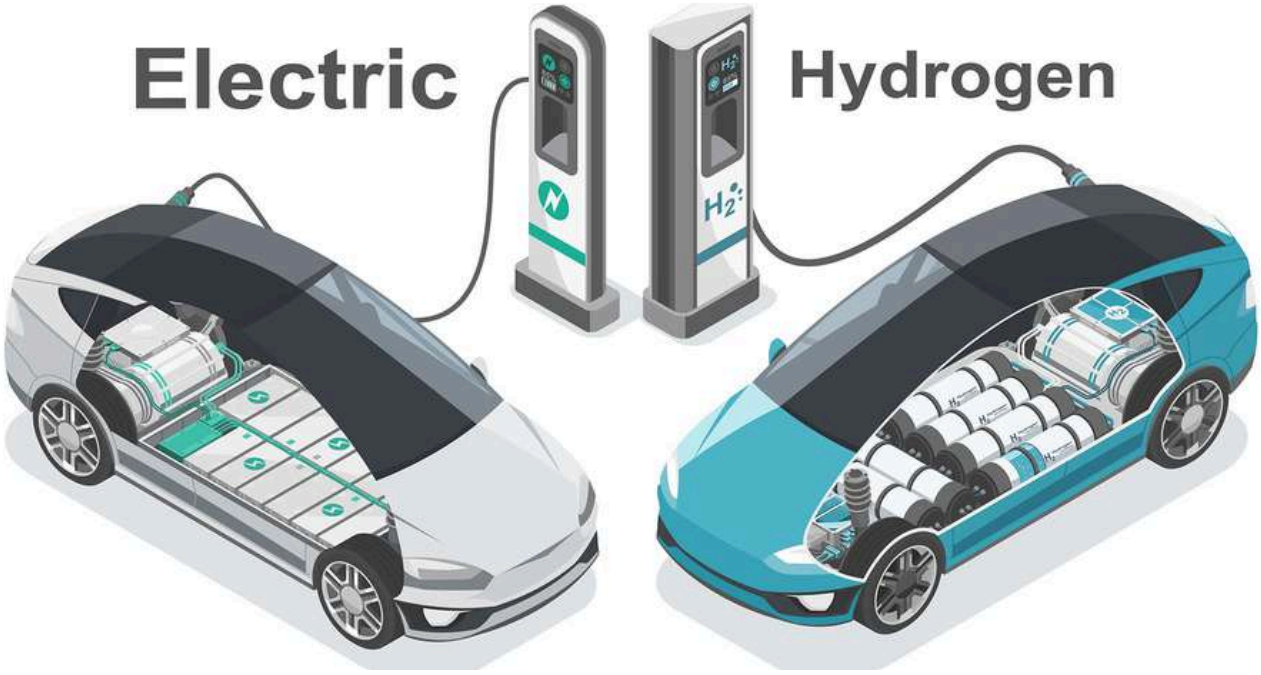
Medium - English

Duration - 120 Minutes

Total Marks - 200

CSAT STRUCTURE				
Sections	**Name of Test**	**Number of Questions**	**Total Marks**	**Duration (In Minutes)**
Section A	English Proficiency	5	10x5 = 50	30
Section B	Aptitude Assessment	25	25x4 = 100	60
Section C	General Awareness	15	15x2 = 30	10
Section D	Situation Based Awareness	2	2x10 = 20	20

WHY EVT AND HFCT?



Parameter	Electric Vehicle Technology (EVT)	Hydrogen and Fuel Cell Technology (HFCT)
Global Market Growth	EV market growing at ~20–25% CAGR globally	Hydrogen economy projected to reach ~USD 380+ Billion by 2035
Global Job Creation Potential	10+ million jobs globally by 2030 (EV manufacturing, batteries, charging, software)	2–5 million jobs globally by 2030 across hydrogen value chain
India Employment Potential (2030 Projection)	5 million direct & indirect jobs (EV ecosystem) – NITI Aayog estimates	600,000+ jobs in hydrogen production, storage & infrastructure (National Green Hydrogen Mission estimates)
R&D & Innovation Demand	High demand in battery chemistry, AI mobility, autonomous EV systems	Growing demand in catalysts, membranes, hydrogen storage materials
Government Investment Support (India)	FAME & PLI schemes supporting EV ecosystem	National Green Hydrogen Mission – ₹19,744 Crore allocation
Industry 4.0 Integration	EVs integrated with AI, IoT, ADAS & Smart Mobility	Hydrogen systems integrated with digital twin & smart plant monitoring
Long-Term Career Stability	High – EV transition irreversible in transport sector	Very High – Hydrogen critical for industrial decarbonization

LIFE AT DBUU









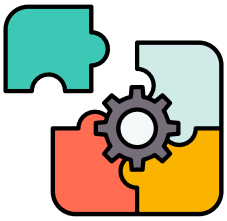


WHY CHOOSE THIS INDUSTRY-INTEGRATED PROGRAM?

This program is designed to bridge the gap between traditional engineering education and real industry requirements in emerging mobility technologies.
Students gain hands-on exposure, industry immersion, and career-ready skills that prepare them for the fast-growing electric mobility and hydrogen energy sectors.

Industry Integrated Learning

Students learn through practical exposure, industry projects, and real-world problem solving in collaboration with leading industry partners.

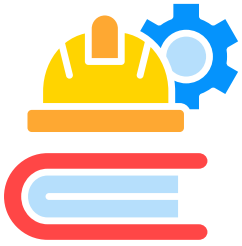


Emerging Technology Specializations

Focused specialization in Electric Vehicle Technology (EVT) and Hydrogen & Fuel Cell Technology (HFCT) aligned with global sustainability and clean energy initiatives.

Strong Industry Ecosystem

Collaboration with automotive, energy, and engineering companies ensures relevant training, mentorship, and career opportunities.



Experiential Learning Environment

Students benefit from advanced laboratories, industry exposure, and technology-driven training facilities designed to simulate real engineering environments.

PAID INDUSTRIAL ON JOB TRAINING AND PLACEMENT POTENTIAL

Industry Sector	Representative Companies
Refineries & Oil & Gas	BPCL, HPCL, Nayara Energy, MRPL
Steel & Metals (Hydrogen Decarbonization)	Tata Steel, JSW Steel, SAIL, Jindal Steel
Green Hydrogen & Renewable Energy	Reliance Industries, Adani Group, ReNew Power, NTPC, GAIL
Fertilizers & Chemical Industries	IFFCO, GNFC, Aarti Industries, Tata Chemicals
Battery & Energy Storage Systems (ESS)	Exide Industries, Okaya Power, Livguard, Amara Raja
Energy Infrastructure & Power Systems	BHEL, Tata Power, Siemens, ABB
Electric Vehicle & Automotive OEMs	Tata Motors, Ola Electric, Ather Energy, Mahindra Electric
Energy Software & Digital Engineering	Wipro, Infosys, TCS, Tech Mahindra
Telecom & Industrial IoT	STL, Airtel, Tata Communications
R&D,Testing & Mobility Engineering	Bosch, KPIT Technologies, Valeo, Siemens

*and many more

- 4-Month Industry Training with **₹30,000/month stipend**
- **Assured Placement** after completion of BTech Degree with salary package of up to **₹10 LPA**

FACILITY PARTNER

Ministry of Micro, Small and Medium Enterprises
Government of India

MSME TECHNOLOGY CENTRE, INDORE
INDO GERMAN TOOL ROOM, INDORE
Ministry of Micro, Small & Medium Enterprises
Govt. of India

G20 2023 INDIA
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Ccentric Learning Edge

TODAY | TOMORROW | TOGETHER

ARE YOU READY TO BE A PART OF FUTURE MOBILITY ?

DEV BHOOMI
—UTTARAKHAND—
UNIVERSITY

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