teckybot™

Where future meets innovation

ELECTRIC VEHICLE TECHNOLOGY

WORKSHOP PROPOSAL

About Us

Teckybot (Teck Team Solutions) brings a wealth of experience spanning a decade in Training and Development within the dynamic domain of **Industry 4.0.** Having successfully trained over **25,000+ students** from various educational institutions, the company offers a comprehensive suite of services, including internships, academic projects, technical workshops, and more. With a primary focus on **Emerging Technologies,** Teckybot aims to instill practical thinking and logical understanding in every student, particularly emphasizing the realms of **Robotics** and **Electronics.**

In the expansive landscape of **Industry 4.0**, our focus extends across pivotal domains, encompassing **Embedded Systems, Renewable Energy, IoT, Robotics, Drones, 3D Printing, EV Technology, and Artificial Intelligence. Teckybot (Teck Team Solutions)** stands out with an exclusive dedication to research and development. By fostering hands-on engagement, we empower the next generation with practical insights into cutting-edge technologies, ensuring they are well prepared for the dynamic challenges of the technological landscape. Additionally, our commitment to **STEM education** underscores our mission to cultivate a holistic learning environment, bridging the gap between theoretical knowledge and real-world application.

Founder Insights

In my entrepreneurial journey, I formed a team for comprehensive engineering training, expanding to seven experts and establishing **Atal Tinkering Labs (ATL)** for innovation. Simultaneously, workshops and internships bridged theoretical and practical knowledge. Evolving into an innovative product development firm, aligned with **"MAKE IN BHARAT,"** we earned **ISO 9001:2015 certification** in robotics. Seamlessly transitioning to Teckybot, our new platform emphasizes future connections, showcasing our dedication to continuous innovation at the forefront of technology, addressing diverse societal needs, and establishing meaningful connections for the future

- N.VENKATA REDDY
(Founder)

Our Vision

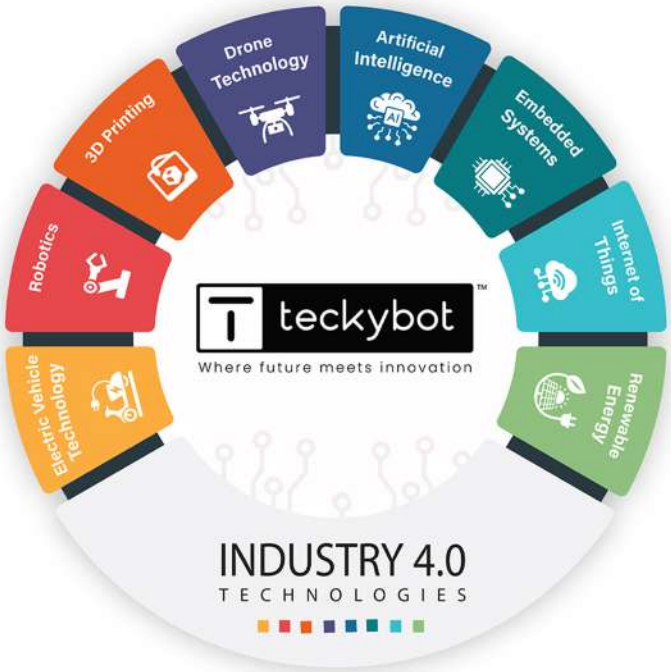
Empowering Tecky's with **INDUSTRY 4.0** Technologies where future meets Innovators

Our Mission

To integrate our platform in Education Institutes to make Industry Innovators for **Bharat**

Our Goal

To Create **ONE** million skilled Tecky's in Industry 4.0 by **2030**

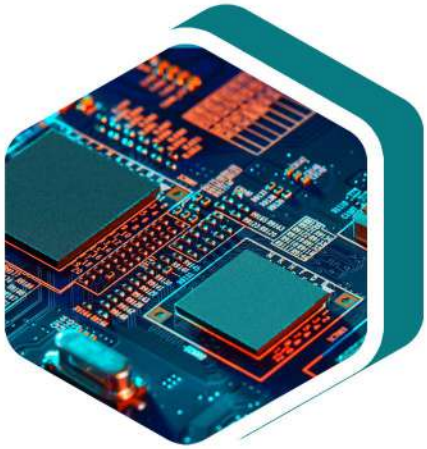


1. Artificial Intelligence Workshop

Artificial Intelligence (AI) and Machine Learning (ML) is one of the fastest emerging technologies. AI enables machines to simulate human intelligence and perform tasks that traditionally required human intelligence, while ML focuses on training machines to learn from data and improve their performance over time. In "AI and ML" workshop you can learn the fundamentals of AI and ML algorithms, explore real-world applications, and gain hands-on experience in building intelligent systems. Understand the ethical considerations and challenges in AI development

2. Embedded Systems Workshop

Embedded systems are computer systems designed to perform specific tasks within larger devices or machinery. They are called "Embedded" because they are integrated into a larger system and are dedicated to a specific function. Embedded systems are found in a wide range of everyday devices, such as smartphones, cars, appliances, industrial equipment, medical devices, and more.



3. Internet of Things Workshop

IoT is one of the world's fastest emerging technologies and has many possibilities as well as opportunities. A workshop on "IoT" gives the ideology of smart devices like Android Server based applications and will cover all basics of controllers used in IoT. With this Workshop, participants shall get to experience the control of different devices using web-based programming and Embedded Systems involved in it.

4. Robotics Workshop

Robotics is a multidisciplinary field involving the design, construction, programming, and operation of robots. A workshop on "Robotics" gives hands-on experience building and operating robots, and explore various applications of robotics in fields such as automation, Artificial Intelligence, and more. Unlock your creativity and ignite your passion for robotics in our immersive workshop

5. Drone Workshop

Drones are considered as one of the fastest emerging technologies, revolutionizing industries with their versatile applications, improving operational efficiency, and paving the way for advancements in fields such as aerial photography, surveillance, agriculture, delivery, and more. In "Drone" workshop you can learn the fundamentals of drone technology and operation. Gain hands-on experience in drone assembly, flight controls, and safety protocols.

6. 3D Printing Workshop

3D Printing is one of the world's fastest emerging technologies and has many possibilities as well as opportunities. A workshop on "3D Printing" gives the ideology about the production of functional or aesthetic prototypes, and will cover all Techniques and Applications of 3DPrinter. With this Workshop, participants will get experience in making their own Prototype and Working models.

7. Electric Vehicle Workshop

EV is one of the most promising and transformative technologies in the transportation sector. It offers a sustainable and eco-friendly alternative to traditional combustion engine vehicles, reducing emissions and dependence on fossil fuels. In "EV" workshop you can learn about the principles of electric vehicle technology, battery systems, charging infrastructure, and the environmental benefits of EV adoption. Get hands-on experience with EV components, understand the integration of renewable energy sources, and discover the future of clean mobility in our interactive workshop led by experts in the field.

8. PCB Workshop

PCB technology, which stands for Printed Circuit Board technology, plays a vital role in the field of electronics. It is the backbone of modern electronic devices and provides a platform for interconnecting and mounting electronic components. A PCB is a flat board made of non-conductive material, such as fiberglass or epoxy, with thin layers of conductive material, typically copper, laminated onto it.

Electric Vehicle Technology

Electric vehicle (EV) technology refers to the design, development, and implementation of vehicles powered by **Electric Motors** and **Batteries** instead of internal combustion engines. EVs offer several advantages over traditional gasoline-powered vehicles, including **lower emissions,** reduced **operating costs**, and increased **energy efficiency**. EV technology encompasses various components, including Battery packs, Electric Motors, Power Electronics, and Charging Infrastructure.

VEHICLE DESIGN EDUCATION

Vehicle design for alternative fuels like CNG, Hydrogen, & Ethanol fosters innovation & sustainability.

VEHICLE-TO-GRID INTEGRATION

EVs contribute to grid stability by storing and supplying energy during peak demand periods.

SMART CHARGING STATIONS

IoT-enabled EV charging stations manage power distribution and billing, enhancing user experience.

FLEET MANAGEMENT SYSTEMS

Real-time tracking and monitoring of electric vehicle fleets optimize operations and improve efficiency.

LAST-MILE DELIVERY

Electric delivery vans and trucks support efficient and eco-friendly urban logistics operations.

ELECTRIC AIRCRAFT

Development of electric-powered aircraft offers cleaner and quieter aviation solutions.

It has applications in passenger cars, commercial vehicles, buses, and two-wheelers. As concerns about **climate change** and **air pollution** continue to grow, electric vehicle technology plays a crucial role in transitioning towards a more **sustainable** and **environmentally friendly** transportation system.

2 DAYS WORKSHOP ON EV TECHNOLOGY

S.NO.	Topic	Duration
	DAY – 1	
1.	History of Electric Vehicles	30 Mins
2.	Government schemes on Electric Vehicles	30 Mins
3.	Top EV companies emerged in India	30 Mins
4.	Opportunities in EV sector	30 Mins
5.	Market demand on 2W, 3W, 4W - EVs	30 Mins
6.	Brief on EV Charging Stations	30 Mins
	Lunch Break	60 Mins
7.	Description of 2W - EV parts	30 Mins
8.	Brief on Battery technology used in EVs	15 Mins
9.	Battery Management System	15 Mins
10.	Type of Motors used in EVs	15 Mins
11.	Types of Chassis used in EVs	15 Mins
12.	General Discussion and Queries	30 Mins
	DAY – 2	
1.	Disassembling of EV outer casing parts	30 Mins
2.	Detaching of Electronic components	30 Mins
3.	Disassembling & Analysis of Mechanical parts	30 Mins
4.	Study on Harness wiring connections	30 Mins
5.	Study on Battery and Charger	30 Mins
6.	Disassembling & Assembling of Charzer Unit	30 Mins
	Lunch Break	60 Mins
7.	Total assembling of EV	60 Mins
8.	Test Drive on assembled EV	30 Mins
9.	General Discussion and Queries	30 Mins

INR 38,000

2 Day - 60 Participants - VE Team - 05

Benefits:

- Expert guidance from trained technical trainers.
- Hands-on experience through live demonstrations.
- Industry-recognized certification upon completion.
- Access to cutting-edge EV technology insights.

3 DAYS WORKSHOP ON EV TECHNOLOGY

S.NO.	Topic	Duration
	DAY – 1	
1.	History of Electric Vehicles	30 Mins
2.	Government schemes on Electric Vehicles	30 Mins
3.	Top EV companies & Opportunities in EV sector	30 Mins
4.	Market demand on 2W, 3W, 4W - EVs	30 Mins
5.	Brief on EV Charging Stations	30 Mins
	Lunch Break	60 Mins
6.	Description of 2W - EV parts	30 Mins
7.	Brief on Battery technology used in EVs	15 Mins
8.	Battery Management System	15 Mins
9.	Type of Motors used in EVs	15 Mins
10.	General discussion & Queries	45 Mins
	DAY – 2	
1.	Disassembling & study of EV outer casing parts	60 Mins
2.	Detaching and study of Electronic components	60 Mins
3.	Disassembling & Analysis of Mechanical parts	60 Mins
	Lunch Break	60 Mins
4.	Study on Harness wiring connections	60 Mins
5.	Study on Battery and Charger	30 Mins
6.	General discussion & Queries	30 Mins
	DAY – 3	
1.	Assembling of EV Mechanical parts	60 Mins
2.	Assembling of EV Electronic components & Battery	90 Mins
	Lunch Break	60 Mins
3.	Disassembling & Assembling of Charzer Unit	60 Mins
4.	Test Drive on assembled EV	30 Mins
5.	General discussion & Queries	30 Mins

INR 55,000

3 Day - 60 Participants - VE Team - 08

***Note: Food & Accommodation under the scope of college.**

Benefits:

- Expert guidance from trained technical trainers.
- Hands-on experience through live demonstrations.
- Industry-recognized certification upon completion.
- Access to cutting-edge EV technology insights.
- Career advancement opportunities in the EV sector.

Pre-Requisites from Institution

- ✓ Depending on the workshop content, participants may need to bring their laptops or specified devices.
- ✓ Ensure participants have the necessary software installed or follow instructions for installation.
- ✓ Spacious hall with tailored seating and well-equipped laboratory provided.
- ✓ Availability of projector, screen, and microphone ensured.
- ✓ Access to high-speed internet facilitated throughout the workshop.
- ✓ Provision of at least three extension boards for device accommodation during hands-on practices.
- ✓ Two designated representatives for seamless coordination and assistance during the workshop.





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