teckybot™

Where future meets innovation

DRONE 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

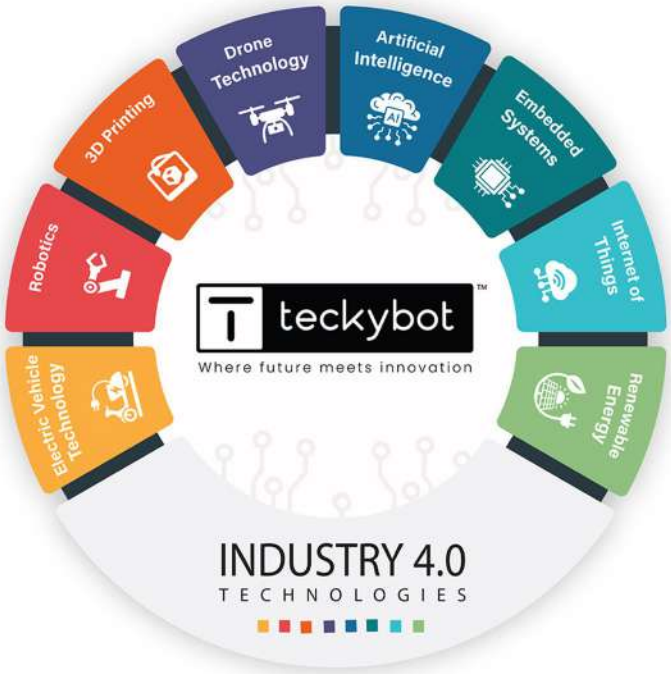
Empowering Tecky's with **INDUSTRY 4.0** Technologies where future meets Innovators

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**

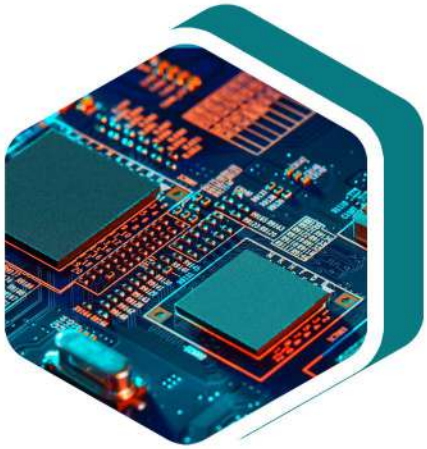


1. Artificial Intelligence Workshop

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.

Drone Technology

Drone technology, also known as **unmanned aerial vehicle (UAV) technology**, involves the design, development, and operation of **unmanned aircraft systems.** Drones come in various sizes and configurations, from small quadcopters used for recreational purposes to large fixed-wing aircraft used for commercial and military applications. Drone technology enables a wide range of applications, including **aerial** photography and videography, agriculture, infrastructure inspection, search and rescue, surveillance, and package delivery.

AGRICULTURE

Drones with cameras monitor crops and apply targeted treatments, optimizing agricultural productivity.

CONSTRUCTION AND SURVEYING

Drones helps in streamline the project management and surveying processes with aerial capabilities.

ENVIRONMENTAL MONITORING

Drones helps in tracking wildlife, deforestation, and environmental changes for conservation efforts

DELIVERY SERVICES

Drones expedite deliveries to remote areas, cutting time and costs.

FILMMAKING

Drones capture unique aerial perspectives for cinematic and visual storytelling.

EMERGENCY RESPONSE

Drones support disaster relief efforts with rapid assessment and communication capabilities.

Advances in drone technology, such as improved battery life, **autonomous navigation**, and **obstacle avoidance,** have expanded their capabilities and potential applications in both **civilian** and **military sectors**. As the technology continues to evolve, drones are expected to play an increasingly important role in various industries and sectors.

2 DAYS WORKSHOP ON DRONE TECHNOLOGY

S.NO.	Topic	Duration
	DAY – 1	
1.	Introduction and Background	30 mins
2.	Overview of drones and their history	30 mins
3.	Types of drones and their characteristics	30 mins
4.	Different uses and applications of drones	30 mins
5.	Drone Technology and Components	30 mins
	Lunch Break	
6.	Anatomy of a drone: Propellers, Battery	30 mins
7.	Anatomy of a drone: Motors, Controllers, Cameras	30 mins
8.	The role and function of each component	30 mins
9.	The importance of GPS in drones	30 mins
	DAY – 2	
1.	Power Distribution Board Assembly	30 mins
2.	Flight Controllers and Peripherals	30 mins
3.	Transmitter	30 mins
4.	A Step-by-step guide to Assembling Drone	45 mins
5.	Safety precautions while assembling and handling drones	45 mins
	Lunch Break	
6.	Hands-on Session: Drone Flying and Operation	45 mins
7.	Basic drone operations: Launch, hover, return, and land	45 mins
8.	Safety protocols during flight	30 mins
9.	Wrap-up and Q&A Session	15 mins

2 Days Workshop	60 Students	80 Students	100 Students
	Per Head- Rs.600	**Per Head- Rs.550**	**Per Head- Rs.500**

Benefits:

- Benefit from expert guidance under skilled technical instructors.
- Experience hands-on learning through interactive demonstrations.
- Obtain industry-recognized certification upon successful completion.
- Access cutting-edge insights into Drone technology.
- Explore career advancement opportunities in the Drone technology sector

3 DAYS WORKSHOP ON DRONE TECHNOLOGY

S.NO.	Topic	Duration
	DAY – 1	
1.	Introduction and Background	30 mins
2.	Overview of drones and their history	30 mins
3.	Types of drones and their characteristics	30 mins
4.	Different uses and applications of drones	30 mins
5.	Drone Technology and Components	30 mins
	Lunch Break	
6.	Anatomy of a drone: Propellers, Battery	30 mins
7.	Anatomy of a drone: Motors, Controllers, Cameras	30 mins
8.	The role and function of each component	30 mins
9.	The importance of GPS in drones	30 mins
	DAY – 2	
1.	Power Distribution Board Assembly	60 mins
2.	Flight Controllers and Peripherals	60 mins
3.	Transmitter	30 mins
	Lunch Break	
4.	Discuss real-world examples where drones have been used successfully	45 mins
5.	Potential for drones in various industries	45 mins
6.	Discussing ethical considerations while operating drones	45 mins
	DAY – 3	
1.	A Step-by-step guide to Assembling Drone	60 mins
2.	Safety precautions while assembling and handling drones	60 mins
3.	Recap of the topics covered	30 mins
	Lunch Break	
4.	Hands-on Session: Drone Flying and Operation	45 mins
5.	Basic drone operations: Launch, hover, return, and land	45 mins
6.	Safety protocols during flight	30 mins
7.	Wrap-up and Q&A Session	15 mins

3 Days Workshop	60 Students	80 Students	100 Students
	Per Head- Rs.800	**Per Head- Rs.650**	**Per Head- Rs.600**

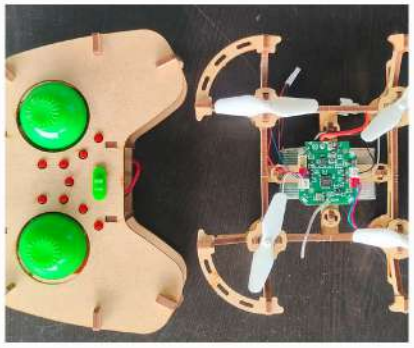
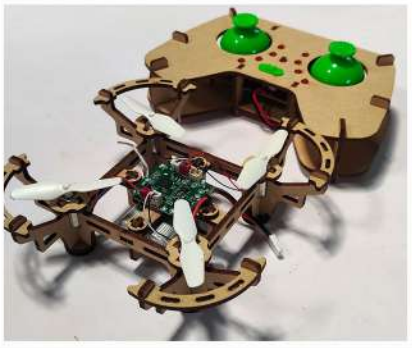
Pre-Requisites from Institution

- ✓ 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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