teckybot™

Where future meets innovation

INTERNET OF THINGS (IOT)
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

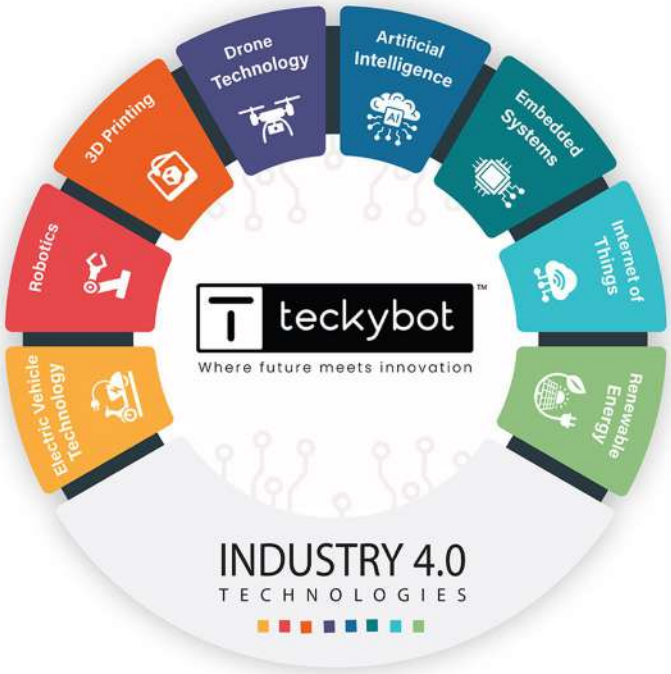
Empowering Tecky's with **INDUSTRY 4.0** Technologies where future meets Innovators

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**

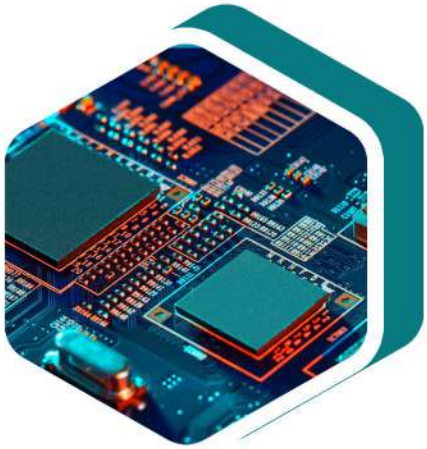


1. Artificial Intelligence Workshop

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

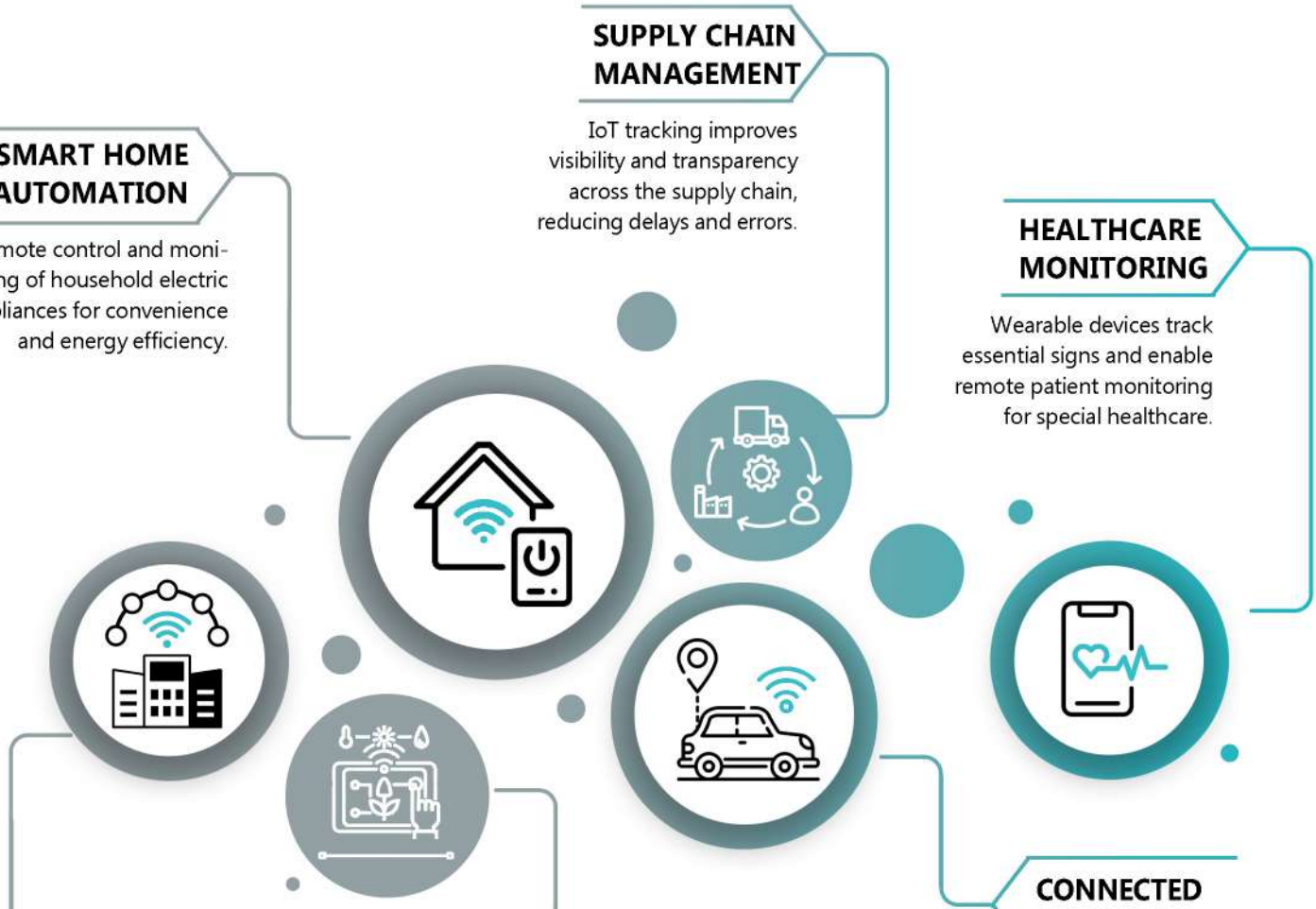
EV is one of the most promising and transformative technologies in the transportation sector. It offers a sustainable and eco-friendly alternative to traditional combustion engine vehicles, reducing emissions and dependence on fossil fuels. In "EV" workshop you can learn about the principles of electric 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.

Internet of Things (IoT)

The Internet of Things (IoT) refers to the network of **interconnected devices** and **sensors** that communicate and exchange data over the internet. These devices can range from **everyday objects** such as **smart thermostats** and **wearable devices** to **industrial machines** and **infrastructure**. IoT technology enables the collection, analysis, and utilization of real-time data to improve efficiency, automate processes, and enhance decision-making. It has applications in various domains, including smart homes, healthcare, agriculture, transportation, and smart cities. By **connecting physical objects** to the **digital world**, IoT technology enables new opportunities for innovation and transformation across industries.



2 DAYS WORKSHOP ON INTERNET OF THINGS

S.NO.	Topic	Duration
	DAY – 1	
1.	Outlines of this course	30 mins
2.	Introduction to Internet of Things (IoT)	30 mins
3.	Benefits of the Internet of Things	30 mins
4.	How Internet of Things is Transforming Daily Life	45 mins
5.	Understanding the Pros and Cons of Internet of Things	45 mins
	Lunch Break	
6.	IoT Development Platforms and Tools	60 mins
7.	IoT Sensors and Devices	30 mins
8.	IoT Prototyping (Hands-on session)	30 mins
9.	Communication Technologies used in IoT	60 mins
	DAY – 2	
1.	Exploration of IoT communication protocols	30 mins
2.	Establishing Communication and Data Transfer	30 mins
3.	What are Servers and the Role they Play in IoT?	30 mins
4.	Tips on Choosing a Server for your IoT Application	45 mins
5.	Exploration of IoT in Healthcare and Smart Cities	45 mins
	Lunch Break	
6.	Summary of Key Points	15 mins
7.	Real-world Use Cases and Case Studies	30 mins
8.	Project Work and Troubleshooting	120 mins
9.	Future Trends and Challenges	15 mins

2 Days Workshop	60 Students Per Head- Rs.650	80 Students Per Head- Rs.600	100 Students Per Head- Rs.550

Benefits:

- Receive expert guidance from skilled technical trainers.
- Engage in hands-on learning with live demonstrations.
- Obtain an industry-recognized certification upon completion.
- Gain valuable insights into cutting-edge IoT technology.
- Explore career advancement opportunities in the IoT sector.

3 DAYS WORKSHOP ON INTERNET OF THINGS

S.NO.	Topic	Duration
	DAY – 1	
1.	Outlines of this course	30 mins
2.	Introduction to Internet of Things (IoT)	30 mins
3.	Benefits of the Internet of Things	30 mins
4.	How Internet of Things is Transforming Daily Life	45 mins
5.	Understanding the Pros and Cons of Internet of Things	45 mins
	Lunch Break	
6.	Interfacing of input and output devices with Arduino	60 mins
7.	Introduction to PWM	30 mins
8.	Introduction to sensors and types of sensor	30 mins
9.	Interfacing of sensors with Arduino controller (IR sensor, DHT11.... Etc)	60 mins
	DAY – 2	
1.	IoT Development Platforms and Tools	45 mins
2.	IoT Sensors and Devices	45 mins
3.	IoT Prototyping (Hands-on session)	90 mins
	Lunch Break	
4.	Communication Technologies used in IoT	45 mins
5.	Exploration of IoT communication protocols	45 mins
6.	Establishing Communication and Data Transfer	90 mins
	DAY – 3	
1.	What are Servers and the Role they Play in IoT?	60 mins
2.	Tips on Choosing a Server for your IoT Application	60 mins
3.	Exploration of IoT in Healthcare and Smart Cities	60 mins
	Lunch Break	
4.	Real-world Use Cases and Case Studies	45 mins
5.	Project Work and Troubleshooting	120 mins
6.	Future Trends and Challenges	15 mins

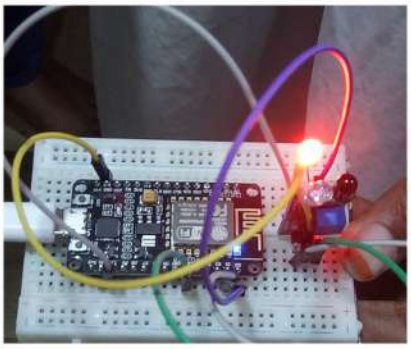
3 Days Workshop	60 Students	80 Students	100 Students
	Per Head- Rs.850	**Per Head- Rs.800**	**Per Head- Rs.750**

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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