



Where future meets innovation



3D PRINTING

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



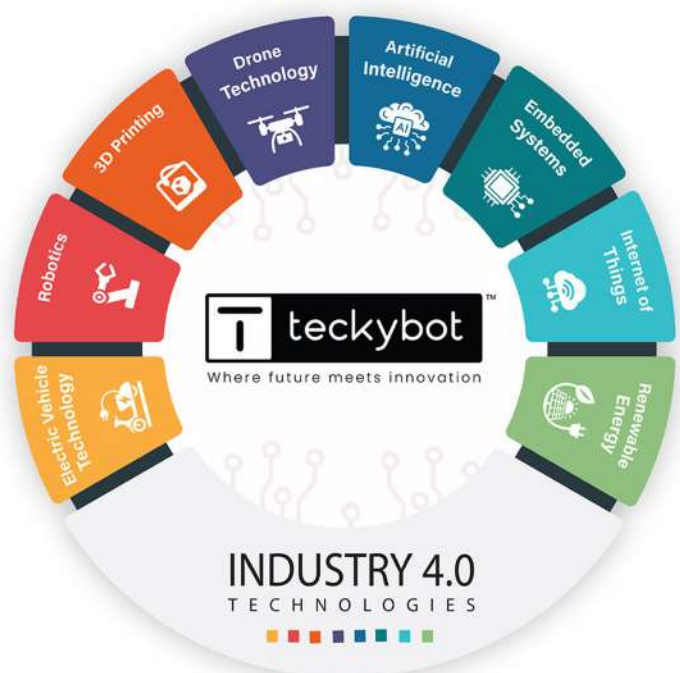
Our Mission

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**



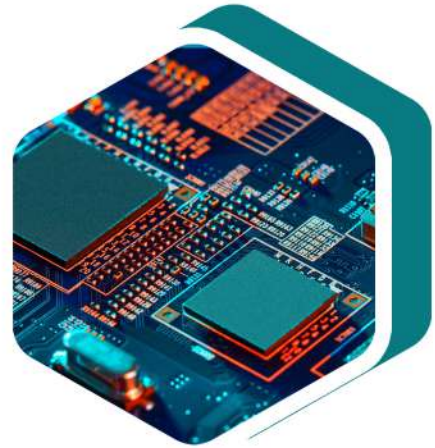


1. Artificial Intelligence Workshop

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.

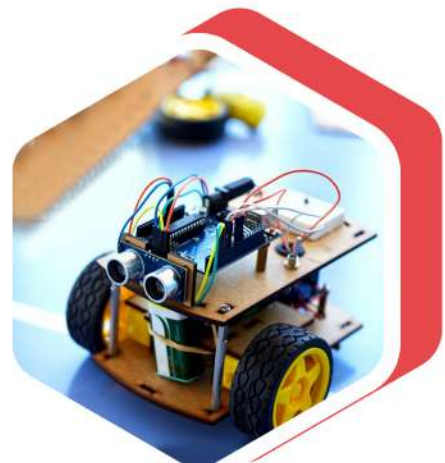


3. Internet of Things Workshop

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.



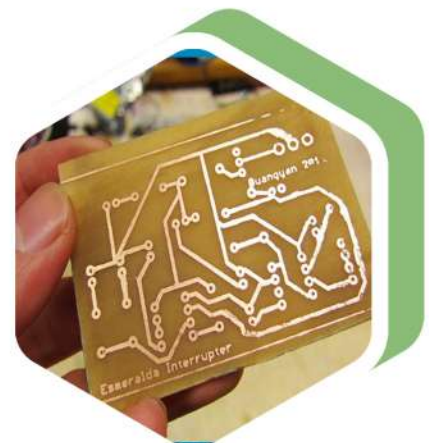
7. Electric Vehicle Workshop

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.



3D Printing Technology

3D printing, also referred to as **additive manufacturing**, revolutionizes the production of three-dimensional objects by layering materials like plastic, metal, or composite powders. It presents a groundbreaking approach to **manufacturing, facilitating rapid prototyping** and the **fabrication of customized parts and products**. This technology finds extensive applications across diverse industries, spanning aerospace, automotive, healthcare, and consumer goods.



Its key advantage lies in enabling designers and engineers to iterate rapidly, thereby **reducing development costs** and **time-to-market**. Additionally, 3D printing allows for the creation of intricate geometries that are challenging or even impossible to achieve with traditional manufacturing methods. Its versatility and adaptability make it an **indispensable tool** for innovation and advancement in **modern manufacturing processes**.

2 DAYS WORKSHOP ON 3D PRINTING

S.NO.	Topic	Duration
DAY – 1		
1.	Introduction to Printers	45 mins
2.	Introduction to Additive Manufacturing	45 mins
3.	Brief about supported materials	45 mins
4.	Applications of 3D Printeing Technology	45 mins
Lunch Break		
5.	Introduction to CAD Software's	45 mins
6.	Introduction to 123D Designing Software	45mins
7.	How to Design an Object using 3D Design software	90 mins
DAY – 2		
1.	Introduction to Slicing software	90 mins
2.	Settings of Slicing softwares	45 mins
3.	Loading files in a 3D printer	45 mins
Lunch Break		
4.	Printer calibration and object printing process	60 mins
5.	Troubleshooting of 3D Printer	45 mins
6.	Future scope	45 mins
7.	Advantages of 3D printing technology	30 mins
2 Days Workshop		
60 Students		
Per Head- Rs.600		
80 Students		
Per Head- Rs.550		
100 Students		
Per Head- Rs.400		

Benefits:

- Expert guidance from trained technical trainers.
- Hands-on experience through live demonstrations.
- Industry-recognized certification upon completion.
- Access to cutting-edge 3D printing technology insights.
- Career advancement opportunities in the 3D printing sector.

3 DAYS WORKSHOP ON 3D PRINTING

S.NO.	Topic	Duration
DAY – 1		
1.	Introduction to Printer	45 mins
2.	History of 3D printing	45 mins
3.	Introduction to Additive Manufacturing	45 mins
4.	Technologies of Additive Manufacturing	45 mins
Lunch Break		
5.	Brief about Supported Materials	30 mins
6.	Types of FDM Printer	30 mins
7.	Parts of the FDM Printer	30 mins
8.	Applications of 3D Printing Tecnology	30 mins
9.	Introduction to CAD Software's	60 mins
DAY – 2		
1.	Introduction to 123D Designing software	60 mins
2.	How to Design an Object using 3D Design Software	120 mins
Lunch Break		
3.	Designing an object with advanced options	120 mins
4.	Introduction to Slicing software	60 mins
DAY – 3		
1.	Brief about Flash print Software	90 mins
2.	Loading File in 3D Printer and object printing process	90 mins
Lunch Break		
3.	3D Printer calibration	45 mins
4.	Trouble shooting of Printer	45 mins
5.	Future scope	30 mins
6.	Advantages of 3D printing technology	30 mins
7.	Challenges facing 3D printing technology	30 mins

**3 Days
Workshop**

60 Students
Per Head- Rs.650

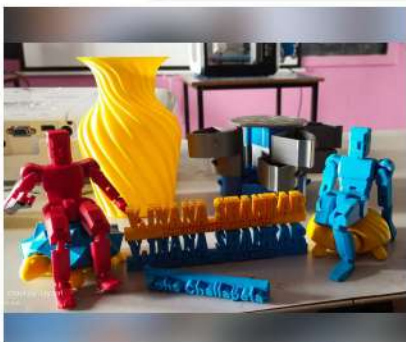
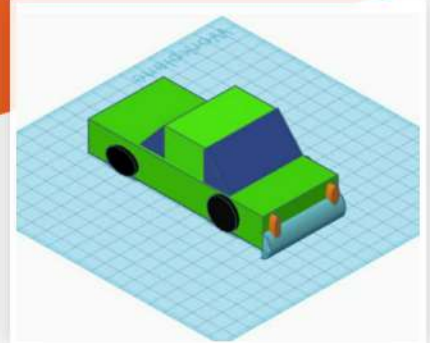
80 Students
Per Head- Rs.600

100 Students
Per Head- Rs.450



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.



<https://www.instagram.com/teckybot/>



<https://www.linkedin.com/company/teckybot/>



<https://www.facebook.com/teckybot/>



<https://www.youtube.com/@teckybot23>



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