



Pan India Educational Drive

# Bharat Drive 4.0

June 2023 <---> June 2024



## about us!

**Zilicon Technologies Private Limited** is a startup company registered in India and recognized by the Department for Promotion of Industry and Internal Trade, Government of India. We are mainly focusing on domestic smart home systems and home automation solutions. Our Vision is to integrate Internet of Things into day-to-day activities and to make daily life easy and manageable. Our mission is to provide simple, user friendly, ready to use and cost-efficient smart home devices which address a wide range of day-to-day issues to our customers.

**Riglabs Collective** is an initiative by Zilicon Technologies Private Limited which focuses on Academic Sector. All the team members and Company co-founders are in the academic sector, having handled more than 400 events in various domains since 2016. The extreme resonance of the passion of team members in tech and academic fields was the core reason for the establishment of the community.




## what's this about?

**Bharat Drive 4.0** is an initiative by riglabs collective focusing mainly on delivering, discussing and analyzing **Industry 4.0** ideas and concepts all over India.

Our drive will connect **6000+** students in **200+** centers all over India [covering all states and union territories] in 09 ~ 12 months; making this drive first of its kind.

Bharat Drive 4.0 is meant to be delivered across all over India. This drive can take up to almost 09 ~ 12 months to complete.

 **To be Started in** June 2023

 **To be Ended in** June 2024

# drive breakdown

The drive is broken down in to 09 different modules, and is classified as below.

Each module is explained in their corresponding sections.

<b>Industry 4.0</b>	<b>001</b>
<b>Demo &amp; Experience</b>	<b>002</b>
<b>Questions &amp; Answers</b>	<b>003</b>
<b>Getting Prepared</b>	<b>004</b>
<b>Hands-On Training</b>	<b>005</b>
<b>Electronics Exhibition</b>	<b>006</b>
<b>Ideation</b>	<b>007</b>
<b>Conclusion</b>	<b>008</b>
<b>Institutional Testimonial</b>	<b>009</b>



# 001 industry 4.0

This session covers the basics, concepts and related technologies & aspects of Industry 4.0.

- 01 | **Industrial Revolution**
- 02 | **Concepts & Basics of Industry 4.0**
- 03 | **Fields & Domains of Industry 4.0**
- 04 | **Cyber Physical Systems**
- 05 | **Future Scope of Industry 4.0**
- 06 | **Current Stage of Industry 4.0 in India**
- 07 | **Future Scope of Industry 4.0 in India**



## 002 demo & experience

To fully understand what industry 4.0 is, it should be experienced. This section contains the demonstration and experience available for industry 4.0. The Industry 4.0 demonstration & experience is a captivating showcase that immerses delegates in the cutting-edge domains of the 04th industrial revolution offering, a dynamic and interactive experience, presenting the advancements and applications of Industry 4.0 technologies.

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- 01 | **Addictive Manufacturing: Demonstration**
  - 02 | **Augmented Reality: Experience**
  - 03 | **Big Data: Demonstration**
  - 04 | **Cloud Computing: Demonstration**
  - 05 | **Cyber Security: Demonstration**
  - 06 | **Internet of Things: Demonstration & Experience**
  - 07 | **Robotics: Hands-on Experience**
  - 08 | **Other Related Fields [Electronics Exhibition]**
  - 09 | **Virtual Reality: Experience**



## 003 questions & answers

In the questions & answers module, delegates can ask their doubts, clarification on specific fields, express their point of view, seek practical advice etc. on Industry 4.0 and related topics. All queries received will be addressed by the mentor and will be referred to respective technical leads if needed for more clarifications.



## 004 getting prepared

Delegates will be getting career guidance sessions and tips on skill development pathways which covers the necessary points that help them to make the right decisions and this prepares them to fit into future demand gaps.



## 005 hands-on training

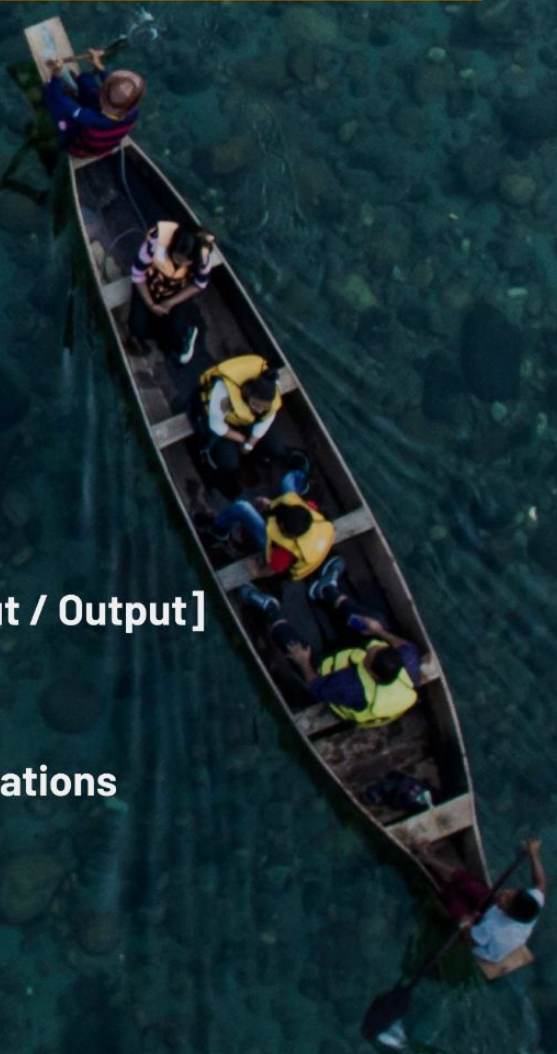
Delegates will be getting an opportunity to build their own robot by attending the hands-on session which covers everything from introduction, familiarization and basics to ideating and guidance for building their own robots using AI tools. All necessary training components and robotics kits will be provided by Riglabs Collective at free of cost [components and robotics kits have to be returned after the session]. Project evaluation, troubleshooting, scaleup possibilities, etc. will also be covered in this session.

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- 01 | **Hands-on training is done in groups up to 05 members**
  - 02 | **Total strength of a batch is limited to 30 ~ 40 students or 06 ~ 08 groups**
  - 03 | **All training supplies provided should be returned after the event**



## 006 electronics exhibition

Delegates will also get an opportunity to explore 300+ Electronics / IoT / Embedded System / Robotics - Components, [in addition to the robotic kit and components provided for training]. such as Sensors, Actuators, Breakout Boards. Input Devices, Output Devices, Micro Controllers, Micro Processors, etc. All the components will be displayed and the following details will be provided.

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- |    |  |
|----|--|
| 01 | <b>Name of the Component</b>                           |
| 02 | <b>Specifications of the Component</b>                 |
| 03 | <b>Usage and Applications</b>                          |
| 04 | <b>Advantages &amp; Disadvantages</b>                  |
| 05 | <b>Similar / Replacement Component</b>                 |
| 06 | <b>Operating Voltage, Rated Current</b>                |
| 07 | <b>Minimum &amp; Maximum Capacity [Input / Output]</b> |
| 08 | <b>Wiring / Connection Instructions</b>                |
| 09 | <b>Related Library &amp; Software Specifications</b>   |
| 10 | <b>Example: Basic Codes</b>                            |
| 11 | <b>Other Details and Live Q&amp;A</b>                  |
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## 007 ideation

Delegates will be getting an opportunity to develop, ideate and present their ideas at the event. The proposals will be evaluated and necessary instructions will be given for developing the idea into a viable product.



## 008 conclusion

A feedback session will be there where students can express their feedback and suggestions. The feedback received will also be shared with the respective institutes after the event. After feedback the whole session will wind-up.

## 009 institutional testimonial

This enables to measure the efficiency and impact of the event conducted on behalf of riglabs collective and the management of the institute. We will collect a testimonial video from the management of the institute in which the following factors can be covered.

- 01 | **Why did the institute choose to be a part of Bharat Drive 4.0?**
- 02 | **What are the benefits, you are expecting that your students will be getting from Bharat Drive 4.0?**
- 03 | **Based on the feedback, are you satisfied?**
- 04 | **What are the steps that the institute is taking in order to ensure the students' career will be fit for the future?**

# ☰ advantages / benefits

## Certificate of Participation - For Students

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Certificate of Participation will be provided to all the participants. Each certificate will have a unique ID which can be verified online. Participants can use this certificate for contacting us in the future.

## Certificate of Recognition - For Institutes

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Institutes in which the program was conducted will be provided with a certificate of recognition. Each certificate will have a unique ID which can be verified online. Name, Details, Testimonials and other details of the institute will be published on the website of Riglabs Collective and on our social media handles. The certificate will not get expired unless Zilicon Technologies Private Limited initiates the cancellation or by manually agreeing the same in writing or by mail.

## MoU Signing with Institute

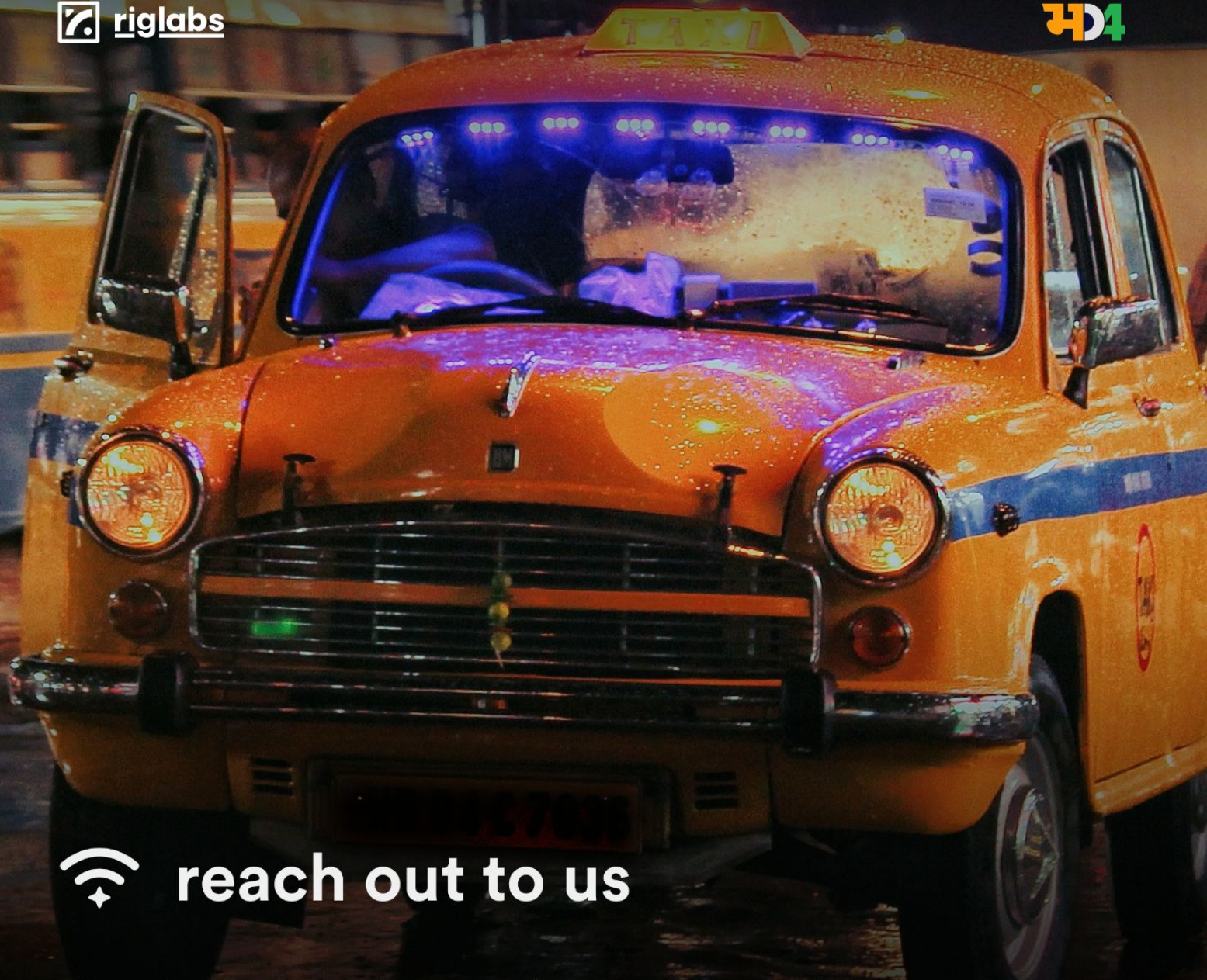
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A Memorandum of Understanding shall be signed between Zilicon Technologies Private Limited and the Institute. Some of the highlights are listed below.

- Two orientation programs per year for the institute at free of cost.
- Offers for students of the institute on upcoming events.
- Early bird access for students of the institute on upcoming events.
- Reservations on selected events for students and faculties of the institute.
- Free community membership and networking channels for participants.
- Free monthly QA sessions [one each month or as scheduled by company - online] for participants.
- Future venue hosting possibilities and collaborations.
- Techfest / Event / Technical supports.
- Priority on upcoming drives.
- Institute will receive loyalty perks [as issued by the company].


### Attached

- *Draft MoU*
- *Certificate of Participation [demo / sample copy]*
- *Certificate of Recognition [demo / sample copy]*




 **reach out to us**

We are looking forward to expanding our mission to a broader spectrum.

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Further guidelines, criteria, terms and conditions of the drive will be shared upon connecting with us.

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this content was last updated on 11<sup>th</sup> of June, 2023.

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**THE END**

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