ABOUT

Andhra TECK LEAGUE

Teck Team Solutions, established in 2014 in Visakhapatnam, Andhra Pradesh, is a renowned training and product development firm specializing in Industry 4.0 technologies. Over the years, we have made significant contributions to the field of technical education and development. Our commitment to innovation and growth has led us to organize various successful events in the past.

In 2016, 2017, and 2018, we organized the highly acclaimed technical event called **Mechatronics,** which provided a platform for students to showcase their skills and knowledge in the field of various technologies. Building on our previous successes, in 2023, we are thrilled to introduce the upgraded version of our event, known as **Andhra Teck League (ATL).** The ATL event is specifically designed for students, aiming to inspire, educate, and nurture their interest in emerging technologies.

KALASRUJAN

Fosters a culture of Innovation and Creativity

Kala Srujan (Design Thinking) is a problem-solving approach that emphasizes a human-centered and iterative process for creating innovative solutions. The main aim is to get maximum practical benefits from the model and to generate it with the minimum amount of general material which means to make or to create innovative and attractive things from the material we do not use anymore.

Design Thinking promotes an iterative and agile approach to problem-solving. It encourages rapid prototyping and testing, allowing for continuous improvement and refinement of ideas and concepts. It encourages individuals to think outside the box and comeup with novel solutions to address challenges.
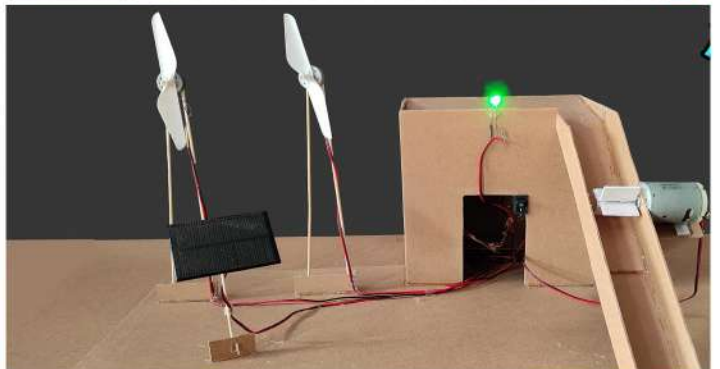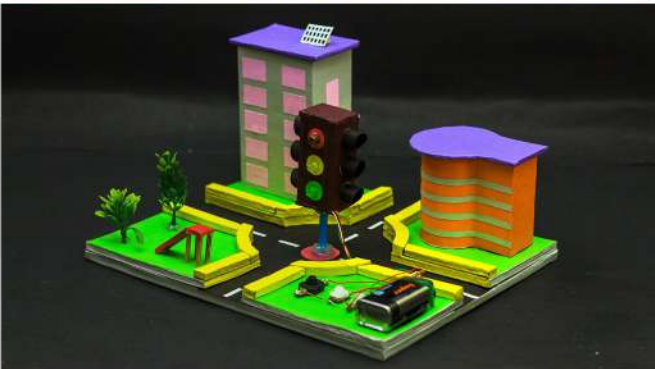
Who Can Apply:

JUNIOR LEVEL

8th to 12th
Standard

SENIOR LEVEL

Any Engineering
Students

Sample images for Kala Srujan

Levels of Competition:

This contest will be conducted in 3 different levels:

Preliminary Level **Zonal Level** **Final Level**

Problem Statement

The Problem Statement typically include the following 5 Concepts:

- ▶ Industry 4.0 Technology
- ▶ Space Technology
- ▶ Agri Technology
- ▶ Aerospace
- ▶ Renewable Energy

Industry 4.0 Technology

- Industry 4.0, also known as the Fourth Industrial Revolution, refers to the ongoing transformation of the manufacturing and industrial sectors through the integration of advanced digital technologies and automation.
- In the context of Industry 4.0 technology, students are tasked with creating a model that envisions the integration of cutting-edge technologies such as 3D printing, robotics, IoT, embedded systems, and more.
- The model should serve as a representation of how these advanced technologies can be applied to drive innovation, automation and efficiency within industrial settings.

Space Technology

- Space technology refers to the application of scientific knowledge, engineering and technology for the exploration and utilization of outer space. It encompasses a wide range of disciplines and technologies that enable human activities in space, including satellite systems, space probes, spacecraft and related infrastructure.
- In the context of space technology, students are required to create a model that encompasses the space ecosystem, employing their imagination to represent it in a realistic manner.
- The model should capture the intricate elements of the space environment, showcasing celestial bodies, spacecraft, satellites, and other components that contribute to the functioning and exploration of space.

Agri Technology

- Agricultural technology refers to the application of advanced technologies, scientific knowledge and innovations in agriculture to improve efficiency, productivity, sustainability and profitability in the farming and food production sector.
- In the concept of Agri technology, students are tasked with creating a model that represents a problem in the agriculture sector or portrays the regular agricultural process.
- The model should effectively highlight the challenges faced in agriculture or demonstrate the typical practices and techniques employed in farming.

Aerospace Technology

- Aerospace technology refers to the field of technology and engineering related to the design, development and operation of aircraft and spacecraft. It encompasses a wide range of disciplines and technologies that enable flight and space exploration.
- Within the scope of the assignment, students are encouraged to compare the Earth ecosystem with the aerospace industry and present their findings through a model format.
- The model should effectively capture and illustrate the similarities, differences and interrelationships between these two systems.

Renewable Energy

- Renewable energy refers to energy derived from natural resources that are continuously replenished and are not depleted over time. Unlike fossil fuels, which are finite and contribute to environmental pollution and climate change, renewable energy sources offer sustainable and cleaner alternatives for meeting our energy needs.
- Students are expected to create a model by incorporating a renewable energy resource of their choice, such as solar energy, wind energy, water or others. The model should effectively showcase the utilization and potential of the selected renewable energy resource.
- The model should provide a clear representation of how renewable energy contributes to sustainable and clean energy solutions.

Rules of Levels

Preliminary Level :

1. In the preliminary level, students are required to select a concept from the above five technologies and submit an abstract of their idea. The abstract should comprehensively define the chosen concept in a text format, without the inclusion of any images.
2. The abstracts received will undergo thorough evaluation by our panel of experts. Following the scrutiny process, selection notifications will be sent to the respective school/college through E-mail.

Zonal Level :

1. Selected students from the preliminary level will proceed to the zonal round, where they are required to attend the event at a designated location. In the zonal round, students will be provided with materials by our team to create a model.
2. It is mandatory for the participants to utilize the given materials to construct their model during the event. Sample materials: Popsticks, band, fevicol, papers, charts, plastic bottles, corks, junk parts, decorative items and many more.
3. The final model created by participants must maintain a direct relationship to the concept they selected during the preliminary round.
4. The models that successfully pass the evaluation in the zonal round will be selected to proceed to the final round. These selected models will move forward for further consideration and participation in the final round of the competition."

Final Level :

1. In the final level, participants will be provided with advanced materials which offer greater possibilities and challenges for the participants to showcase their skills and creativity in the construction of their models.
2. Sample materials: Additional to zonal round we provide toys, stickers, craft, colors, electronics, mechanical items and many more.
3. The model you create in the final level must maintain a direct correlation with the concept you selected during the preliminary level.
4. It is essential that the model effectively reflects and embodies the chosen concept, demonstrating a clear connection and alignment throughout the design and construction process.

Judging / Selection Criteria :

Preliminary Level:

The participants in the preliminary level will be selected based on the below factors:

1. Your idea must be directly aligned with the chosen concept.
2. Timely submission of the abstract is essential.
3. Concepts submitted after the deadline will not be considered.
4. Your creativity and noble innovation matters a lot.

Zonal Level:

The selection of participants for the Zonal level will be based on the following factors:

1. Time: Students are required to submit the finished model within the specified timeframe.
2. Presentation: The model you create should be directly linked to the chosen concept and visually appealing. Additionally, your explanation of the model should effectively communicate the connection between the concept and the design.
3. Material usage: The given materials should be utilized effectively and taken into consideration during the design process. It is important to ensure that the materials provided are efficiently incorporated into the model and contribute to its overall effectiveness.

Final Level:

1. Time: Students are required to submit the final model within the specified timeframe.
2. Presentation: The model you create should be directly linked to the chosen concept and visually appealing. Additionally, your explanation of the model should effectively communicate the connection between the concept and the design.
3. Material usage: The given materials should be utilized effectively and taken into consideration during the design process. It is important to ensure that the materials provided are efficiently incorporated into the model and contribute to its overall effectiveness.
4. Working condition: Depends on the % working condition or prototype of the model is highly desirable.

Reference Video Links :

Video Link -1: https://www.youtube.com/watch?v=BzAchB71Jdg
Video Link -2: https://www.youtube.com/watch?v=2VkHdbTrHrw

Participation Eligibility :

1. Participation Team Should consist minimum of 02 to 04 members.
2. All team members can register from one primary contact number.
3. Initial registration is mandatory to participate in the event.
4. Every participant should have official ID Card from the respective institution / school.
5. All team members should belong to same institution / school only.
6. Team members should willing to participate zonal & Final level contests at outstation locations as per the schedules.

NOTE: The competition organizers reserve the right to modify the rules and regulations if necessary. They also reserve the right to disqualify any entry that violates the rules or disrupts the competition.

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