



All India Council for Technical Education
Announces

BHARATH CYCLE DESIGN CHALLENGE

for the students of Technical Education

Last Date to Submit Design: 15th July, 2023

Grand Finale & Prototype Exhibition: 2nd October, 2023



For More Details Visit

<https://forms.gle/qcXb737ShudEFoBbA>





Phone : 011-26131577 - 78, 80
011-29581000
Website : www.aicte-india.org



सत्यमेव जयते

अखिल भारतीय तकनीकी शिक्षा परिषद्

(भारत सरकार का एक सांविधिक निकाय)

(मानव संसाधन विकास मंत्रालय, भारत सरकार)

नेल्सन मंडेला मार्ग, वसंत कुंज, नई दिल्ली-110070

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

(A Statutory Body of the Govt. of India)

(Ministry of Human Resource Development, Govt. of India)

Nelson Mandela Marg, Vasant Kunj, New Delhi-110070

F.No.01/TLB/AICTE/NNCF/190/2023-24

Date:02.06.2023

To,

**The Director/Principal,
All AICTE Approved Institutes**

Dear Sir/Madam,

Sub: Bharath Cycle Design Challenge (BCDC) – Request to encourage participation – Reg.

The Bharath Cycle Design Challenge (BCDC) is an initiative to encourage innovation and creativity in the design and making of bicycles. The challenge seeks to promote sustainable transportation and provide solutions to the challenges faced by the public in India. The competition invites student teams to design a **Cycle** that is affordable, eco-friendly, and suits the needs of the Indian market.

The competition involves two basic themes which are design and prototyping of **Commute & Cargo Cycle with subcategory of EV/Non EV.**

The workflow of competition follows a four stage process which are Concept Development (3rd June-15th July), Prototyping (1st August), Testing and Evaluation (1st Sept -30th Sep) & Grand Finale with showcasing of prototype on the occasion of Gandhi Jayanti on 2nd October at AICTE HQ.

In view of the above, the council request your good Institute to encourage the students to participate and to make the event a grand success through this registration form: <https://forms.gle/BdGh38zvoZN13KTp6>

Kindly check Bill of Material also

https://drive.google.com/file/d/1JFi_-

rdkjwpFVa5qXO_m9rAUnkWb_aro/view?usp=sharing

Further details and calendar of events are available at AICTE Homepage.

www.aicte-india.org

Regards

Dr. Ramesh Unnikrishnan

Advisor-II

Training & Learning Bureau



सूचना का
अधिकार



ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi-110070

PRE-EVENT MEDIA PRESS RELEASE

AICTE announces the launch of **Bharath Cycle Design Challenge** on 3rd June, 2022 on the occasion of World cycle Day.

About Bharath Cycle Design Challenge (BCDC)

- AICTE is announcing a Bharath Cycle Design Challenge on the occasion of World Bicycle Day. The Bharath Cycle Design Challenge is an initiative to encourage innovation and creativity in the design and making of bicycles. The challenge seeks to promote sustainable transportation and provide solutions to the challenges faced by various groups of people in India. The competition invites participants to design a bicycle that is affordable, eco-friendly, and suits the needs of the Indian market.

Key initiatives of Bharath Cycle Design Challenge (BCDC)

- The competition is open to the students of Technical education.
- The competition involves two basic themes which are **Commute & Cargo Cycle with subcategory of EV/Non EV.**
- The workflow of competition follows a four stage process which are Concept Development (3rd June-15th July), Prototyping (1st August), Testing and Evaluation (1st Sept -30th Sep) & Grand Finale with showcasing of prototype on occasion of Mahatma Gandhi Jayanti on 2nd October at AICTE HQ.
- The event will focus on Sustainability, Ergonomics, Aesthetics and Maintainability of rickshaw/bicycle.
- Further details about the event are available at www.aicte-india.org

All India Council for Technical Education (AICTE), New Delhi

Bharath Cycle Design Challenge

Rules and Regulations

Eligibility:

The competition is open to students of Technical Institutions in India approved by AICTE.

Team:

- a) Each team should be led by a designated Team Leader.
- b) Team Leader will be the primary contact person for communication with the AICTE and is responsible for submitting the design entry on behalf of the team.
- c) Teams should consist of 3 to 5 members.

Roles and Responsibilities:

- a) Team Leader should coordinate and delegate responsibilities among team members.
- b) Each team member should contribute their expertise and actively participate in the design process.
- c) Collaboration and effective communication within the team are crucial for a successful submission.

Design Submission:

- a) Team Leader is responsible for submitting the complete design entry on behalf of the team.
- b) The submission should include all required elements, such as 2D and 3D models, technical specifications, and the Bill of Materials (BOM).

Communication:

- a) The Council shall primarily communicate with Team Leader regarding competition-related updates, announcements, and queries.
- b) Team Leader should ensure that all important information is shared with the team members.

Collaboration Tools:

- a) Teams are encouraged to use collaboration tools and platforms to facilitate communication and coordination among team members.
- b) These tools can include project management software, version control systems, document sharing platforms, or communication channels.

Cycle Design Requirements:

- a) All cycle designs submitted must be original and unique, not infringing on any existing patents or intellectual property.
- b) The design should be focused on improving performance, comfort, sustainability or any other aspect that enhances the cycling experience.
- c) The design can be for any type of Cargo Cycle or Commute Cycle with subcategory of EV/ Non EV.

Submission:

- a) Participants must submit their designs in digital format.
- b) The design submission should include both 2D and 3D models of the cycle.
- c) The 2D drawings should provide detailed technical specifications, including materials suggested for different components.
- d) Participants must also submit a comprehensive Bill of Materials (BOM) listing all the components and materials required to build the cycle.

Intellectual Property:

- a) Participants retain full ownership and intellectual property rights over their submitted designs.

- b) By participating in the competition, participants grant the organizers a non-exclusive license to use their designs for promotional purposes related to the competition.

Judging Criteria:

- a) Designs will be evaluated based on creativity, innovation, feasibility, functionality, and overall quality.
- b) The judges' decisions will be final and binding.

Code of Conduct:

- a) Participants are expected to adhere to a high standard of integrity, respect and fairness throughout the competition.
- b) Any form of cheating, plagiarism, or unethical behavior will result in disqualification.

Confidentiality:

- a) Participants should not share their designs or any confidential information related to their designs with other participants or outside parties during the competition.
- b) The Council will take reasonable measures to protect the confidentiality of participants' designs.

Deadlines:

The competition timeline, including the submission deadline are as follows:

S. No.	Date	Activities
1.	03 June, 2023	Announcement of event (World Cycle Day)
2.	15 July, 2023	Last Date for Participants to Submit their Design Concept
3.	01 August, 2023	Announcement of shortlisted Participants
4.	30 September, 2023	Completion of testing & evaluation of the Physical Model (Proto Type)
5.	02 October, 2023	Grand Finale and announcement of Winners

Shortlisting of Teams and Prizes:

- a) The competition will offer prizes for winners, which will be communicated before or during the competition.
- b) Four teams will be shortlisted for the final event in each category i.e., there shall be a total of 16 teams for the grand finale.
- c) Shortlisted teams may be connected to the AICTE Idea labs located across the country for facilitating their design and manufacturing.
- d) AICTE will provide an amount **Rs. 40,000/- (Forty Thousand Rupees only)** per team to all 16 short listed teams as a seed money for proto type development, design and fabrication purpose.
- e) For the winners in each category, an amount of **Rs. 1,00,000/- (One Lakh Rupees only)** shall be provided as Prize money. (Only for 1st prize winners in each category)
- f) Certificate of Appreciation shall be provided to the remaining teams who qualified for the grand finale.

Liability:

- a) Participants are responsible for ensuring that their designs do not pose any safety risks or infringe upon any legal requirements.
- b) The organizers will not be liable for any injury, damage, or legal issues arising from the participation in the competition or the use of the submitted designs.

Amendments:

- a) The organizers reserve the right to modify or amend the rules and regulations of the competition if necessary.
- b) Changes, if any, shall be communicated to participants on time.

Please feel free to contact @ 011- 29581215/1307

Email-ID: ittlb@aicte-india.org & swayamitc3@aicte-india.org

Bharath Cycle Design Challenge Registration

Bharath Cycle Design Challenge (BCDC) - Request to encourage participation - Reg.

The Bharath Cycle Design Challenge (BCDC) is an initiative to encourage innovation and creativity in the design and making of cycles. The competition seeks to promote sustainable transportation and provide solutions to the challenges faced by the public in India. The competition invites student teams to design a Cycle that is affordable, eco-friendly, and suits the needs of the Indian market.

The competition involves two basic themes which are design and prototyping of **Commute & Cargo Cycle with subcategory of EV/Non EV.**

Important dates:

Opening Date :- 03 June 2023.

Closing Date :- 15 July 2023.

Concept Development (3rd June-15th July).

Prototyping (1st August).

Testing and Evaluation (1st Sept -30th Sep).

Grand Finale with showcasing of prototype on the occasion of Gandhi Jayanti on 2nd October at AICTE HQ.

*** Indicates required question**

1. Team Leader Name *

2. Team Leader Email *

3. College/Institution Name *

4. Address of Institution of the Team Leader *

5. Department *

6. Number of Team Members (Min 3 members - Max 5 members). *

Mark only one oval.

1 Team Leader with 2 team members.

1 Team leader with 3 team members.

1 Team leader with 4 team members.

7. State *

8. City *

9. PINCODE *

10. Contact Number *

11. Alternate Contact Number. *

12. Team Member 1 Information(Name, Contact Number, Email , Department, Institute ,State) *

13. Team Member 2 Information(Name, Contact Number, Email , Department, Institute ,State) *

14. Team Member 3 Information(Name, Contact Number, Email , Department, Institute ,State) *

15. Team Member 4 Information(Name, Contact Number, Email , Department, Institute ,State)

16. Select Theme *

Mark only one oval.

- Cargo Cycle
- Commute Cycle

17. Select Category *

Mark only one oval.

- EV
- Non EV

18. Brief Explanation of your Design / Innovation component (In 100 Words). *

19. Your design /Innovation is addressing which kind of problem (In 100 Words). *

20. Who are ultimate users of your Design/ Innovation (In 100 Words) *

21. How your design innovation is better than existing options available in the market (In 100 Words) *

22. Is there any Intellectual Property(IP) component associated with your design/Innovation *

Mark only one oval.

Yes

No

23. Upload CAD Design in JPEG/PDF format.

*Technical drawings are typically created in 2D and saved in " PDF" formats max Size 5MB.

3D CAD Model: The primary file you need to provide is a 3D Computer-Aided Design(CAD) model of your cycle design.This model should represent all the components and details of the deisgn in a three-dimensional format.3D models should be submitted in the "STP" formats for 3D CAD models STEP(.stp) max size 25 MB

Files submitted:

24. Upload the Bill of Material (BoM) and approx. cost in pdf format