BAL BHARATI PUBLIC SCHOOL,NOIDA

Presents

Techस्पर्धा

ATL FEST

04-05 February 2020

https://bbpsnoida.balbharati.org/

Dear Sir/Madam,   15 Jan, 2021

"SCIENCE HELPS IN THE UNDERSTANDING OF THE NATURAL WORLD, WHILE TECHNOLOGY DISCUSSES THE ABILITY TO MANIPULATE THE NATURAL WORLD".

• The school has the rare distinction of being amongst the first 250 schools to be selected for setting up the *ATL Tinkering Lab* in the first phase from amongst 6000 applicants; under the *Atal Innovation Mission (AIM)* a Government of India's flagship initiative to promote a culture of innovation and entrepreneurship in the country in the year 2016. The school, with the objective to foster innovation in different sectors of the economy and create an umbrella structure to oversee innovation ecosystem of the country has been empowering the students through various events and activities.

• The School has strong collaborations with Adobe, Moglix, Code and many more tech companies with the imperative to introduce the young minds to the latest technologies and has also adopted Artificial Intelligence in the school curriculum from Classes IV to XI with an objective for students to leverage the full potential of Atal Tinkering Lab and help them to innovate and create valuable solutions benefiting societies at large.

• We do not believe in concentrating learning, but igniting the spark of learning for a wider reach in order to stimulate community centric innovations and ideas in the unserved, underserved sections of the society. As evident to all our worlds came to a grinding halt due to the Covid-19 pandemic in January 2020 but it is only Science, Technology and the Evolution of digital platforms that have provided answers to most of the challenges faced by the world and our students found opportunities to experiment and innovate. At this rare juncture, it is therefore important that we enhance interactions between students, encourage scientific enquiry and help them seek solutions to the unseen future.

• We are proud to announce that the **ATL club of BBPS Noida 'ANVESHAN'** will be hosting '**Tech**स्पर्धा' for the young, brilliant minds brimming with new ideas and skills on 04 and 05 February, 2021. It will be a platform which will not only encourage students to participate in learning - based activities in an environment of bonhomie and camaraderie, but will also promote healthy competition where students will be able to give expression to their creativity and contribute to scientific advancements. Please find the details of the event in the enclosed brochure.

We look forward to welcoming your school at '**Tech**स्पर्धा'.

Thanking you

Yours sincerely,

Asha Prabhakar
(Principal)

स्वच्छ भारत
एक कदम स्वच्छता की ओर

GENERAL INSTRUCTIONS

1. No entries will be entertained without Registration

2. Link for online registration : https://forms.gle/B9ukWD99H6DHhGRF8

3. Only one team per school is allowed in each event.

4. The entries must be sent from the registered e-mail Ids only. The media files must be named as: **EventName_TeamName _SchoolName**

5. Schools must confirm their participation and registration by 21st January 2021. No late submission shall be entertained.

6. In case of a query Event- in- charges can be contacted from 5pm -8pm only or participating schools may leave a message along with the school name.

   - Ms Rani Vaid   :   Mobile No. 09891312120
   - Mr Umesh Verma   :   Mobile No. 09811336317
   - Mr Omkar Sahu   :   Mobile No. 09457382748

7. Teachers in-charge & the registered students are requested to join our WhatsApp group for updates regarding which they will be intimated once their school has registered Join

8. In case of any change in the participating team, organizers are to be informed at least one day prior to the event via email: anveshanatal@nd.balbharati.org

9. Participation in all the events is mandatory to be the Overall Winner of the Event

RULES AND REGULATIONS

1. The Platform for the presentation will be **ZOOM / Google Meet**

2. Cameras should be switched on during the Presentation and mic should be put on mute unless specifically asked.

3. Students are requested to give their presentation in school uniform only.

4. Participation of a student in multiple events is allowed, however if a situation arises of overlapping event, it will be the responsibility of the participating school to manage the school.

5. Participating schools will be disqualified for not adhering to the event rules.

DATES TO REMEMBER

LAST DATE FOR REGISTRATION

21st JANUARY 2021 (Thursday)

LAST DATE FOR SUBMISSION

28th JANUARY 2021 (Thursday)

DATE OF FINAL ONLINE PRESENTATION

04th FEBRUARY 2021 (Thursday)

ONLINE VALEDICTORY FUNCTION

05th FEBRUARY 2021 (Friday)

EVENT - 1
SMART COVID FIGHTER ROBOT

CATEGORIES:
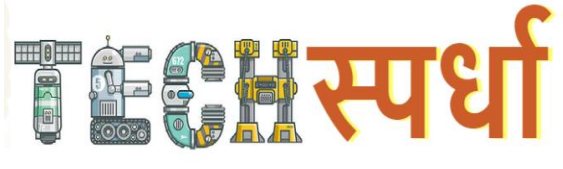
Category-1	:	Classes VI to VIII
Category-2	:	Classes IX to XII
No. of Participants	:	Team of 2

ABOUT THE EVENT:

Students have to build a Smart Robot (Prototype/Working Model) that can help in tackling situations arising during the pandemic.

SOFTWARE TO BE USED:

1. AutoCAD 3D
2. Design spark
3. Adobe Photoshop

RULES:

The competition will have two rounds: **Preliminary and Final**

PRELIMINARY ROUND

- Participants should prepare a word document describing their idea in about 100-150 words and mail it to anveshanatal@nd.balbharati.org
- The document should mention the problem faced during pandemic and the possible solution using a robot, materials used and application of each part used to design robot, detailed description of technology used in making robot and its working.
- Idea should be original, non- fictional, and economical.
- Falsification of the project will result in instant disqualification.
- It is mandatory to attach the picture of the prototype.
- Entries should be submitted latest by 28th January 2021.
  Link for Submission   :   https://forms.gle/jQiLpRP3PTphHdDs7

JUDGEMENT CRITERIA

- Relevance of the topic
- Creativity /Originality
- Content
- Working Efficiency

FINAL ROUND

- Selected participants will upload the presentation on Google Drive and mail the link to anveshanatal@nd.balbharati.org
- Final Presentation will take place on 4th February 10:00 am onwards and meeting id will be shared on the WhatsApp group with the selected participants and Teacher incharge.
- Time limit for each presentation will be 5 minutes.
- Students will share their screen during presentation and delivery of ideas.

JUDGEMENT CRITERIA

- Relevance of Topic
- Creativity /Originality
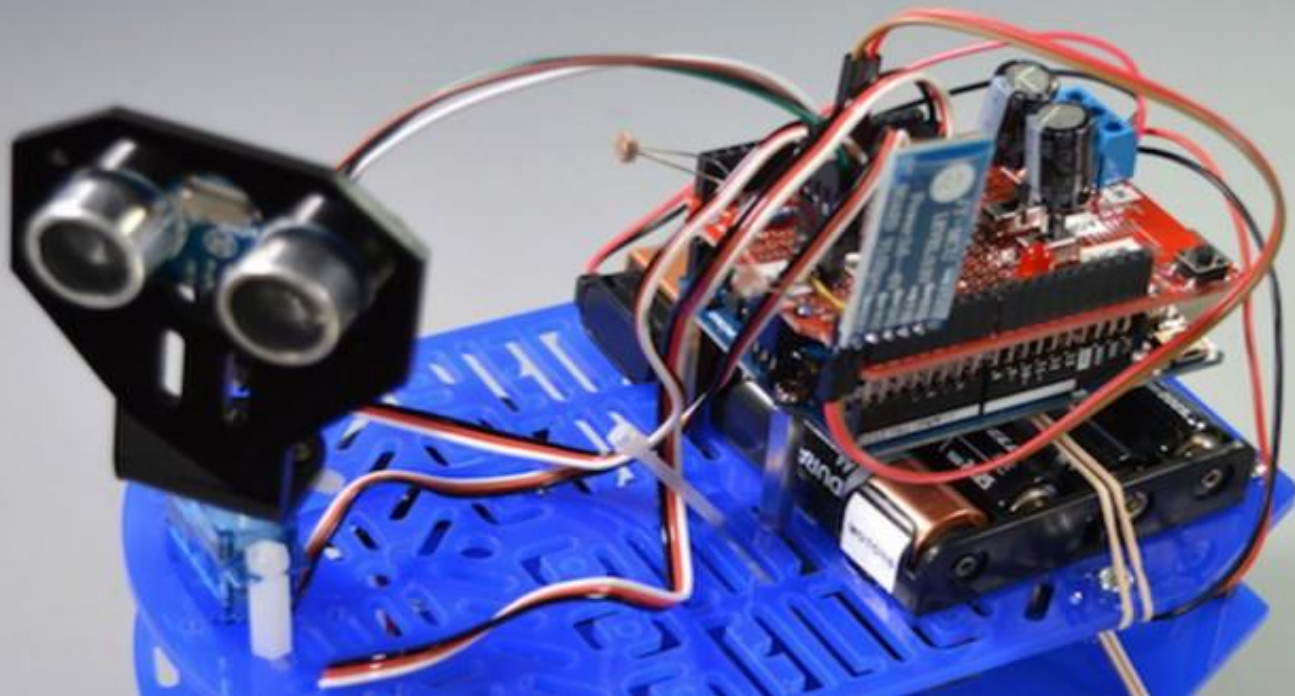- Content
- Overall Presentation
- Communication

Event In –charge   :   Mr. Umesh Verma   (+91-9811336317)

EVENT – 2
ARDUINO MAKER CHALLENGE
(DESIGNING ARDUINO BASED PROJECT)

CATEGORIES:

Category-1   :   Classes VI to VIII

Category-2   :   Classes IX to XII

NO. OF PARTICIPANTS   :   Team of 2

ABOUT THE EVENT:

Students have to build an Arduino Based Project (Prototype/Working Model) on any of the themes mentioned below and create a video explaining the construction and working of the project.

3 GOOD HEALTH AND WELL-BEING	6 CLEAN WATER AND SANITATION	11 SUSTAINABLE CITIES AND COMMUNITIES

1. **SDG-3**   :   Good Health and Well-Being

2. **SDG-6**   :   Clean Water and Sanitation

3. **SDG-11**   :   Sustainable Cities and Communities

PRELIMINARY ROUND :

- Participants should prepare a video (3 minutes) and PPT (5 -10 slides) describing their project and mail it to anveshanatal@nd.balbharati.org
- Idea should be original, non- fictional, and economical.
- Falsification of the project will result in instant disqualification.
- It is mandatory to attach the picture of the prototype.
- Entries should be submitted latest by 28th January 2021.

  Link for Submission   :   https://forms.gle/oaQKCKiSK2TGqcJa7

FINAL ROUND

- Final Presentation will take place on 4th February 10:00 am onwards and meeting id will be shared on the WhatsApp group with the selected participants and Teacher incharge.
- Time limit for each presentation will be 5 minutes.
- Students will share their screen during presentation and delivery of ideas.

JUDGEMENT CRITERIA:

- Originality and Innovation
- Scientific thought and approach
- Economic (low cost/portability/durability)
- Presentation (demonstration & explanation)

Event In-charge   :   Mr. Omkar Sahu   (+91-9457382748)

EVENT - 3
CODE-HEAD
(MOBILE/WEB APP DESIGNING COMPETITION)

CATEGORIES:

Category-1   :   Classes VI to VIII

Category-2   :   Classes IX to XII

NO. OF PARTICIPANTS   :   Team of 2

ABOUT THE EVENT:

Mobile applications, better known as apps, are an innovative way of connecting people with issues they care about. Whether addressing health, education or inequality, apps are some of the newest ways that public can learn about and contribute to the success of the SDGs.

Students have to create a Web App/ Mobile App on any of the theme mentioned below using any platform of their choice.

THEMES:

GOOD HEALTH & WELL BEING

Some suggestive focus areas are:
- ❖ Ensure healthy life.
- ❖ Strengthen the prevention of a communicable diseases like COVID-19.
- ❖ Sports & Fitness.

QUALITY EDUCATION

Some suggestive focus areas are:
- ❖ Increase access to information and communication.
- ❖ Promote lifelong learning opportunities for all.
- ❖ Ensure inclusive education.

INDUSTRY, INNOVATION & INFRASTRUCTURE

Some suggestive focus areas are:
- ❖ Strengthen youth entrepreneurship
- ❖ Promote inclusive and sustainable industrialization.

RESPONSIBLE CONSUMPTION AND PRODUCTION

Some suggestive focus areas are:
- • Efficient management of food from farmers to consumers.
- • Promoting no wastage of food and resources.

PRELIMINARY ROUND :

- • Participants should submit Published WebApp URL of the developed App/ Share APK File for the developed App and word document explaining the App in 500 word and mail it to anveshanatal@nd.balbharati.org
- • Idea should be original and non- fictional.
- • Falsification of the application will result in instant disqualification.
- • Entries should be submitted latest by 28th January 2021.

Link for Submission: https://forms.gle/6SmnFSnNHR4EZbkF6

FINAL ROUND

- Final Presentation will take place on 4th February 21 10:00 am onwards and meeting id will be shared on the WhatsApp group with the selected participants and Teacher incharge.
- Time limit for each presentation will be 5 minutes.
- Students will share their screen during presentation and delivery of ideas.

JUDGEMENT CRITERIA:
- Content
- Structure & Navigation
- Functionality
- User Interface

Event In-charge   : Ms. Omkar Sahu   (+91-9457382748)

EVENT – 4
GAME FOR CHANGE
(G4C) CHALLENGE

CATEGORIES:

Category-1	:	Classes VI to VIII (Only Girls)
Category-2	:	Classes IX-XII (Only Girls)
PARTICIPANTS	:	Team of 2 (only girls)

ABOUT THE EVENT:

A STEM challenge aims at increasing the participation of girls and closing the gender gap in STEM.

- Participants (only Girls) are required to make a 2D/3D game using any platform on any one of the themes mentioned below

THEMES:

- Smart Mobility
- Building Resilience through Games.
- Equality for all
- Global Health

RULES

- APK file with video presentation and source code to be sent at anveshanatal@nd.balbharati.org

- Time limit for the video is 2 minutes.

- Plagiarism of any kind will result in instant disqualification.

  Link for Submission   :   https://forms.gle/17VKdjtRu2PSHeY69

JUDGEMENT CRITERIA:

- Creativity

- Video presentation

- Complexity of the source code

- Novelty

  Event In-charge   : Ms. Rani Vaid   (+91-9891312120)

EVENT – 5
TECH-TOY

CATEGORIES:

Category-1   :   Classes VI to VIII

Category-2   :   Classes IX-XII

PARTICIPANTS   :   Team of 2

ABOUT THE EVENT:

The competition is an exciting activity with an aim to provide platform for participants to challenge their creativity and skills in the designing of fascinating toys based on themes mentioned below

THEMES:

- Environment
- Divyang-Friendly
- Out of box, creative and logical thinking
- Sports and Fitness
- Security and Surveillance.

JUDGEMENT CRITERIA:

- Design   and Reflection
- Innovative and aesthetic appeal of model.
- Working of Toy

RULES:

- PPT / Video presentation of the Toy that includes pictorial sketches of design etc. and Design brief and participant's learning experience or reflection in less than 100 words to be sent at anveshanatal@nd.balbharati.org

- Time limit for the video is 2 minutes.

    Link for Submission   : https://forms.gle/o3H8XXY3y7fjgxDg7

Event In-charges   :   Mr. Umesh Verma   (+91-9811336317)

Ms. Rani Vaid   (+91-9891312120)