



**GOVERNMENT ARTS COLLEGESHADERA**  
**Dist.Panchmahal**  
**સરકારી વિનયન કોલેજશહેરા જિ.પંચમહાલ**

E-Mail : [prin.shehara@gmail.com](mailto:prin.shehara@gmail.com), Website : <https://gacshahera.org>  
(NAAC Accredited – ‘ B ’ CGPA 2.49)

Date:25/10/2024

**Government Arts College, Shahera**  
**Report on Innovation Club Activities (2023-2024)**

Under the guidance of Principal, Dr Vipul Bhavsar, the Innovation Club at Government Arts College, Shahera has successfully conducted 14 activities throughout the academic year 2023-2024. These activities were aimed at fostering creativity, problem-solving skills, and technological innovation among students. The club, in collaboration with the Gujarat government's Innovation Club program, provided various kits to facilitate hands-on learning experiences in emerging technologies.

The following is a record of the activities conducted by the Innovation Club, along with the kits used for each activity:

**Activity 1:**

The first activity of the Innovation Club served as a general exploration for all 10 kits provided under the Innovation Club. Students familiarize themselves with the diverse range of kits, setting the stage for future hands-on learning experiences in various fields of innovation and technology.

Date:01/08/23



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Activity 2:

In this session focused on advanced kit components exploration, students delved into the intricacies of using LEDs with Arduino microcontrollers. Through hands-on experimentation, they learned how to integrate LEDs into circuits and program them using Arduino, enhancing their understanding of electronic components and programming concepts.

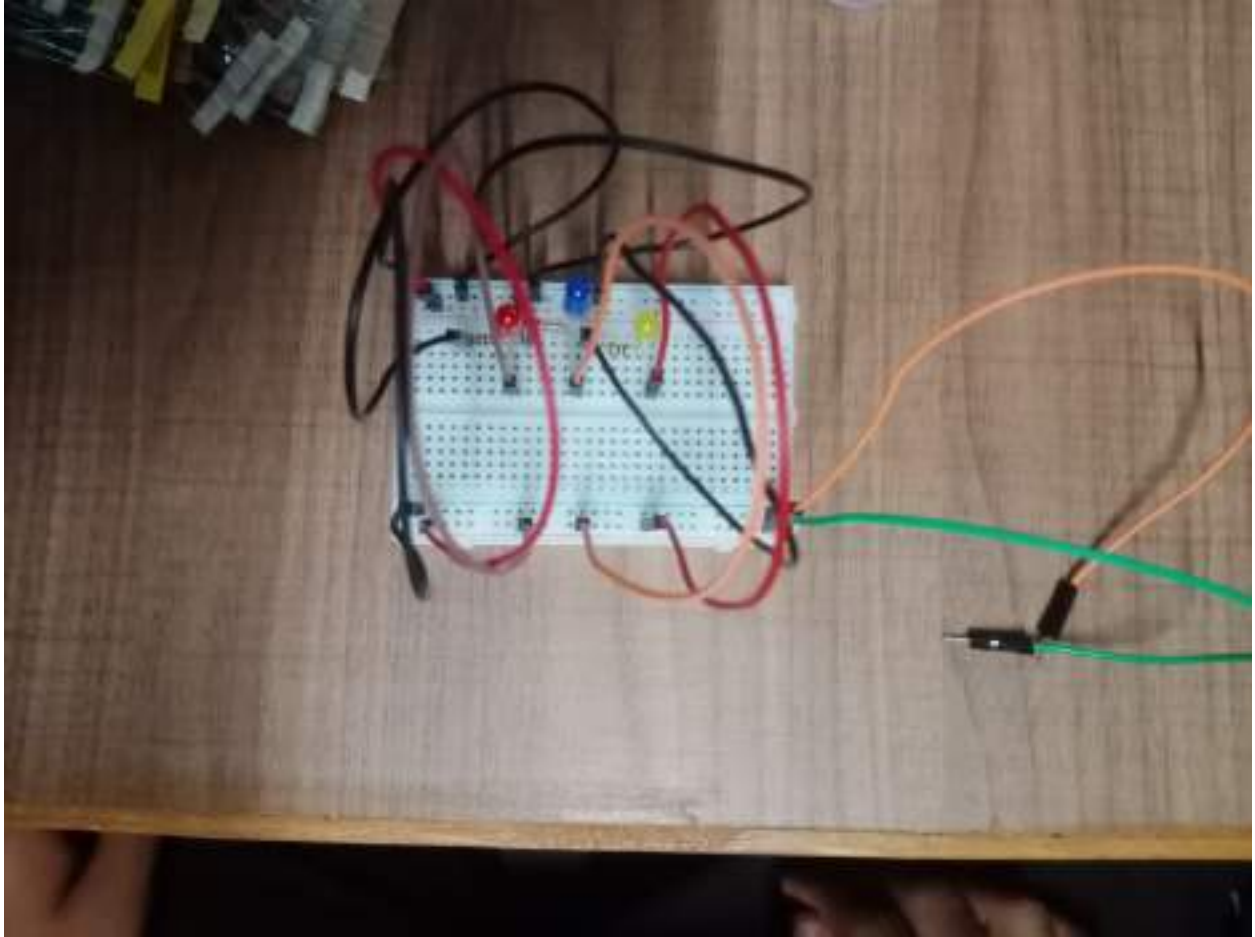
Date: 11/08/2023



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Activity 3:

Students participated in a telescope assembly workshop, utilizing the Telescope Kit to learn about its different components, including lenses. They were taught how to use each component effectively, followed by outdoor observation sessions, enriching their understanding

Date:14/08/2023



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Activity 4:

Students participated in a building block activity using the "Innovations Bricks kit". They constructed various structures, learning about shapes, sizes, and design concepts. This hands-on experience encouraged creativity and problem-solving skills among the students.

Date: 19/08/23



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Activity 5:



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Students engaged in an interactive learning session with the Orboot Earth AR Globe. Using augmented reality technology, they explored different geographical regions, cultures, and landmarks from around the world. Through this immersive experience, students expanded their knowledge of geography, history, and global awareness in an engaging and dynamic way.

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Activity 6:





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In this activity, students decorated clay pots for Navratri using glue guns. They adorned the pots with colorful embellishments and designs, showcasing their creativity and festive spirit. Through this hands-on project, students learned about traditional crafts and the art of decoration, adding a personal touch to their Navaratri celebrations.

Date: 29/09/2023

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**Activity 7:**

In this activity, students utilized glue guns to join various materials and objects around the college campus. From fixing broken items to creating new displays or installations, students



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learned practical skills in using adhesive technology to solve everyday problems creatively. This activity not only fostered a sense of ownership and responsibility for the college environment but also encouraged innovation and resourcefulness among the students.

Date:04/10/2023

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Activity 8:

Students participated in an exciting project to build obstacle-avoiding car using Arduino microcontrollers. Guided by mentors, they learned about electronic components, and robotics principles as they assembled and programmed their car. Through trial and error, students developed problem-solving skills and gained practical experience in it.

Date: 24/10/2023



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Activity 9:



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In this activity, students engaged in a hands-on workshop using power tools such as drill machines while prioritizing safety by wearing protective goggles. Under supervision, they learned the basics of operating drill machines, understanding safety protocols, and proper handling techniques. Through practical demonstrations and guided practice, students gained confidence in using power tools for various DIY projects, empowering them with valuable skills for future endeavors.

Date: 10/12/23



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**Activity 10:**

In this activity, students experimented with 3D printing pens to unleash their creativity and innovation. They used the pens to create three-dimensional models and artwork, exploring



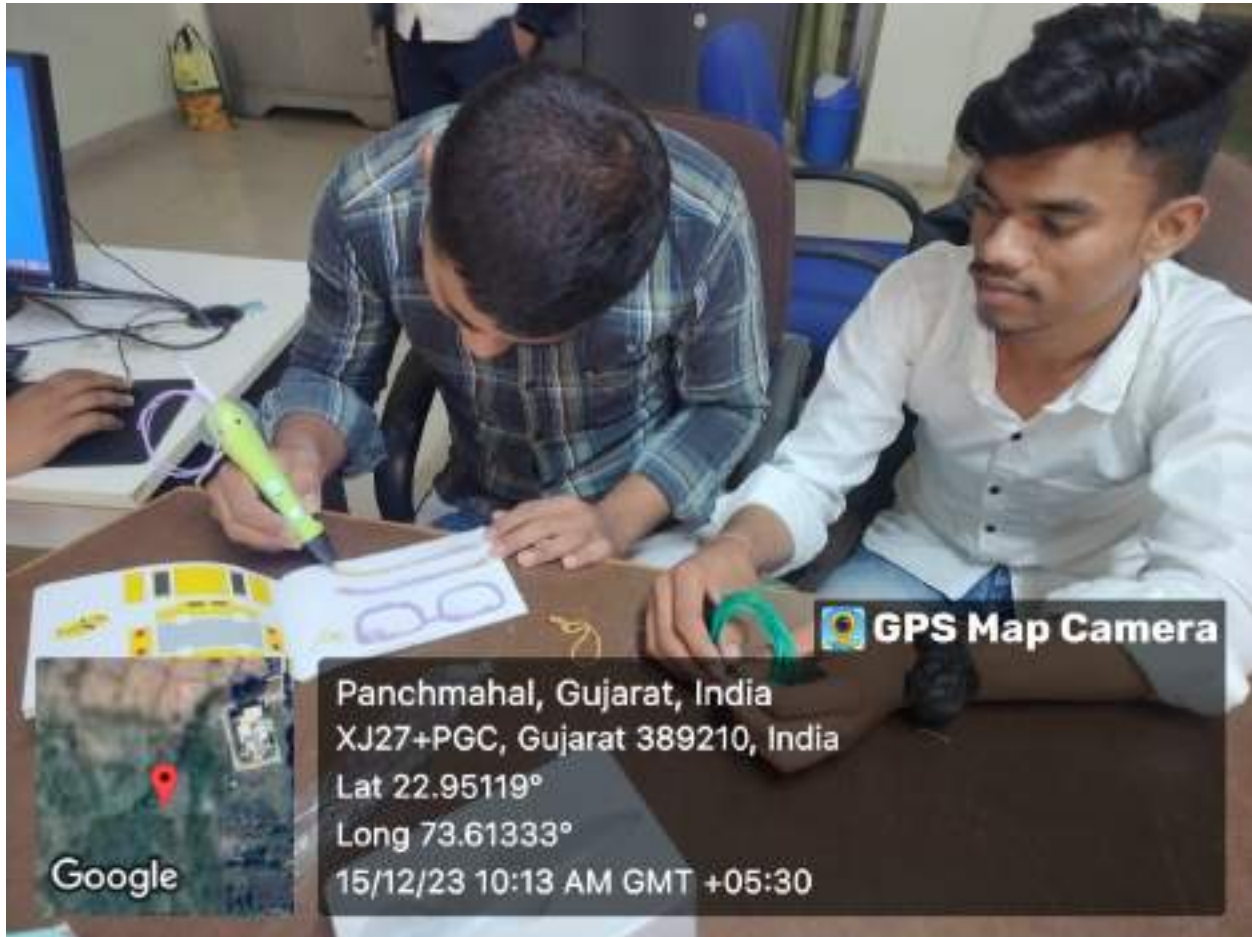
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the possibilities of this emerging technology. Through hands-on experimentation, students learned about the principles of 3D printing and honed their spatial visualization skills, fostering innovation and artistic expression.

Date:15/12/2023

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Activity 11:

Students participated in a workshop utilizing resistors and LED lights to learn about basic electronics and circuitry. Guided by instructors, they explored the principles of electrical resistance and circuit design by assembling simple circuits. Through hands-on experimentation, students gained insight into how resistors regulate current flow and how LED lights function within a circuit.

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Activity 12:

Students participated in a hands-on workshop where they learned to use pH meters to measure the acidity or alkalinity of various solutions. Through practical exercises and



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discussions, they gained insight into the importance of pH in different fields and developed essential laboratory skills.

Date:13/3/2024

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The Innovation Club remains committed to providing students with opportunities to explore, innovate, and transform their ideas into actionable projects. We look forward to continuing our efforts in nurturing the spirit of innovation among our students in the coming years.

**KIRANKUMAR ROHIT**

Coordinator

Innovation Club

Government Arts College, Shahera

