### 3.2.1 QIM

# Ecosystem for Innovations at Government Science College, Gandhinagar

### Introduction

Government Science College, Gandhinagar has developed a robust ecosystem for innovation. This ecosystem focuses on raising awareness about Intellectual Property Rights (IPR) and fostering a culture of innovation. It includes departmental laboratories, a comprehensive library, an active research cell, an Innovation Club, and a Student Startup and Innovation Policy (SSIP) committee.

### Laboratory Facilities

#### Advanced Scientific Infrastructure

The laboratories in each department are equipped with a variety of scientific instruments necessary for advanced experimentation. For instance, the Chemistry department's post-graduation center runs MSc programs where students engage in dissertation projects, cultivating a research-oriented mindset. The Microbiology lab is notable for providing pure bacterial cultures to nearby colleges and researchers, making it a unique resource in the state.



# *Laboratories* Link for Infrastructural facilities: https://www.gscgandhinagar.in/view-pdf?id=298



Bacterial culture and experimental equipment in microbiology laboratory

# **Library Facilities**

Extensive Resources and Digital Access

The college library is a well-equipped facility offering extensive collections of reference books, journals, and e-journals. It also provides internet access, ensuring that both students and faculty have the latest research materials at their fingertips.



*Library* Link for Library facilities: <u>https://www.gscgandhinagar.in/view-pdf?id=300</u>

# **Research Cell**

Encouragement of Quality Research

The Research Cell plays a crucial role in promoting high-quality research among teachers and students. It supports participation in conferences, seminars, and workshops, especially those focusing on IPR awareness. This not only enhances research output but also ensures faculty and students stay informed about the latest developments in their fields.

### Student Startup and Innovation Policy (SSIP) Committee

Nurturing Entrepreneurial Spirit

The SSIP committee is dedicated to fostering an entrepreneurial spirit among students. It provides financial support for innovative startup ideas through grants and seed funding. Additionally, the committee organizes seminars, workshops, and field trips to expose students to real-world startups and entrepreneurship, cultivating an entrepreneurial mindset.

### Integration of IPR in Curriculum

Raising Awareness through Education

Several microbiology courses include IPR as a unit/topic in their curriculum, raising awareness among students about the importance of intellectual property rights. This integration ensures that students are knowledgeable about IPR, which is crucial for protecting their innovative ideas.

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Members	Ca- Chairman	Chairman	Name of Committee	Sc. No.	Sr.	Name of Committee	Chairman	Co- Chairman	Members
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(Computer Program)	1	1		-	9	Online Education & Administration Committee (MS Teams, Cogent, Sandhan)	Prof. Chandresh K. Kharadi	Dr. D. N. Adhyaru	Amrita Raval (Computer Programme
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Research Cell committee

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1	Dr. M. G. Bhatt (Principal)		Chairperson	2 L	Dr. P. U. Shanna Prof. P. D. Chaudhary		Co-ordinator
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Establishment of SSIP Cell , Innovation club and IPR cell at institute Link to committee lists: <u>https://www.gscgandhinagar.in/page?gid=21</u>



Certificate course on Intellectual property rights for all the faculties of Gujarat education services conducted by education department, Gujarat.

# Innovation Club Committee

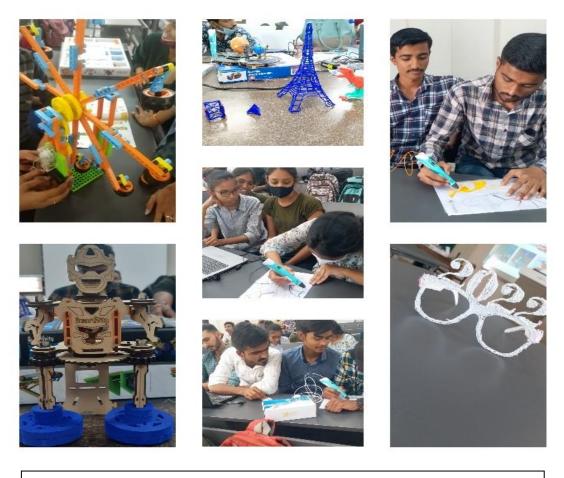
Promoting Interdisciplinary Innovation

The Innovation Club is instrumental in promoting interdisciplinary activities and the development of new models, including those involving AI programming. It nurtures creativity among students and encourages them to develop startups. The club offers training and support for participation in various competitions and hackathons, further enhancing students' innovative capabilities.

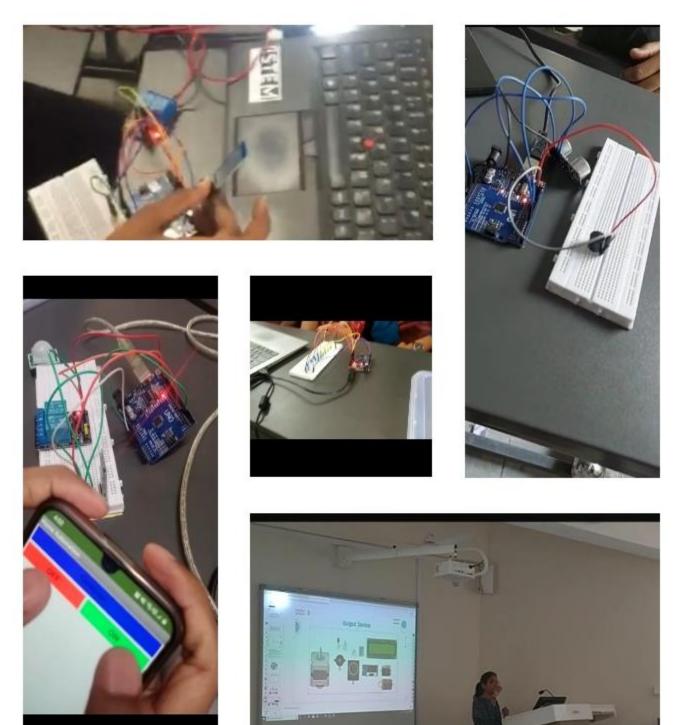
# **Participation in Competitions and Seminars**

### Showcasing Innovation

The institute encourages students to participate in subject-specific seminars, conferences, workshops, and various competitions. This provides a platform for students to showcase their innovative ideas and projects. Students from various departments like microbiology, physics, and botany have achieved recognition at state and national levels.



Workshops under Innovation club



Workshops under Innovation club Link to SSIP and Innovation activities: <u>https://www.gscgandhinagar.in/ssip-2-0-brochure</u> <u>https://www.gscgandhinagar.in/ssip-innovation-2022-23</u>



Gujarat Council on Science & Tec... • 1h One of the main goals of coding hackathon for students @GujScienceCity is developing new ideas, providing a platform where innovation is born.

It's the most efficient #environment for problem-solving that boost #Inspiration #innovation #creativity and #productivity. @mnagaraian







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Indian Association of Physics Teachers (IAPT RC-7) CERTIFICATE This is to certify that Mr./Ms. Joshi Mahi Harshad bhaii of Government Science College, Sector 15, Gandhinagar has Participated in the School / UG /PG /RS / Teacher category by Presenting their innovative physics experiment and won the 1st / 2pt prize during State level Final CPEx-2024 Organized on 14th March, 2024 at P D Patel Institute of Applied Sciences, CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY, Changa - 388 421, Gujarat, India in association with Indian



Achievement of students in various competitions /Seminars

# Value-Added Course on Indian Knowledge System (IKS)

Understanding Holistic Knowledge

In alignment with NEP-2020, the institute introduced a Value-Added Course on the Introduction to Indian Knowledge System (IKS) in the academic year 2023-24. This course aims to provide a holistic understanding of the rich Indian knowledge system and its traditions, highlighting its relevance in the contemporary world.

Link to IKS Syllabus on Institutional Website: https://www.gscgandhinagar.in/view-pdf?id=230

### Conclusion

The innovative ecosystem at Government Science College, Gandhinagar, with its advanced laboratory facilities, comprehensive library, active research cell, supportive SSIP committee, and dynamic Innovation Club, provides an excellent environment for fostering innovation and entrepreneurship. This ecosystem ensures that students and faculty are well-equipped to pursue ground-breaking research, develop innovative solutions, and contribute significantly to society's advancement.