



**RV College of
Engineering®**



CENTRE OF EXCELLENCE Hydrogen and Green Technology (CH2GT)

**Established 2021 and funded by
Rashtreeya Sikshana Samithi Trust (RSST)**

United Nations has called for immediate action by all the countries. It emphasizes creating an avenue for affordable, reliable, sustainable, and modern energy, to combat climate changes and their impact along with the revitalization of the global partnership for sustainable development. Concurrently, the Government of India has initiated the National Hydrogen Energy Mission with a prime focus on the generation of hydrogen from green power resources and to link India's growing renewable capacity with the hydrogen economy. In line with the initiatives of the United Nations and the Government of India, RV College of Engineering has started the Centre for Hydrogen and Green Technology (CH2GT) in March 2021. CH2GT is widening its horizon by actively looking for industrial partners and researchers from all the disciplines who are intrigued by Hydrogen Technology.

Vision

Development of reliable, affordable and sustainable Hydrogen energy systems and solutions

Mission

1. Promoting the implementation of renewable energy systems
2. Providing green energy solutions to industrial and societal needs
3. Developing well to wheel carbon neutral renewable/green hydrogen energy systems

Objectives

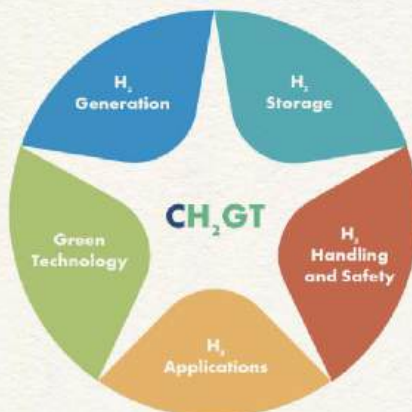
1. Development of research and laboratory infrastructure for skill enhancement, academic and research projects
2. Skill advancement of students, faculty members, industrialists, and professionals in sustainable hydrogen energy technologies
3. Design and development of curriculum for UG | PG programs, certification courses, and skill advancement courses
4. Execution of consultancy and research projects through industry-institute interaction
5. Collaboration and networking with researchers, industries, and institutions working on sustainable hydrogen energy and environmental research across the globe



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Modules of CH2GT



Overview of CH2GT Activities

Sl. No.	Activities	Activity Count	Students Involved			Faculty Involved
			2021	2022	2023	
1	Internships	5	66	31	27	8
2	Student Projects	27	24	14	11	1
3	Conference Proceedings	31	03	34	10	8
4	SCI Publications	09	01	06	06	2
5	Patents	05	02	02	01	2
6	Tech Talks	07	-	05	04	1
7	External Collaborations	08	-	-	-	1
8	Funded Project	01	2	6	5	2
9	Courses	02	61	62	-	2
10	Proposals	09	-	-	-	3
11	MoUs	05	-	-	-	1

Investment by the Institution

Sl. No.	Equipment (under procurement)	Amount	Year
1	Benchtop Hydrogen Generation, Storage, Sensing, and Utilization Module with training kit	Rs. 10,00,000	2024
2	Coolant Bath operating in the range of -20°C to 0°C	Rs. 02,00,000	2024

Total Revenue Generated: ₹223,580

For Further Details Contact

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