

Shri Shivaji Education Society Amravati's SCIENCE COLLEGE, Congress Nagar, Nagpur
DEPARTMENT OF BOTANY
Conducted Project on
HYDROPONICS
Session 2022-23



Shri Shivaji Education Society Amravati's

SCIENCE COLLEGE

Congress Nagar, Nagpur - 440012 (M.S.) India.
Accredited With CGPA Of 3.51 At 'A+' Grade.



BOTANY DEPARTMENT
Organizing
Project on
HYDROPONICS
SESSION 2022-23

Our aim is to equip students with modern agricultural skills and promote affordable hydroponic solutions for landless farmers and regions facing soil and water scarcity.

What is Hydroponics?

- A soilless farming technique where plants are grown in nutrient-rich water, without the need for soil.
- Allows cultivation of crops in limited spaces, utilizing vertical farming and controlled environments.

Why Hydroponics?

- Hydroponics is a soil-free farming method that allows crops to grow in nutrient-rich water. It's ideal for urban spaces, using 90% less water and producing crops 30-50% faster. With fewer pests, it reduces the need for chemicals, offering a sustainable and efficient farming solution.

Benefits for Students

- Practical Knowledge
- Entrepreneurship Opportunities
- Environmental Impact

Project Highlights



Objective:

To raise awareness among students on sustainable, soilless farming practices and the potential for year-round crop production.



Scope

Introduction to various hydroponic systems, nutrient solutions, and crop cultivation methods.



Hands-on Training

Students participated in setting up small-scale hydroponic systems for growing vegetables and herbs.

JOIN US IN REVOLUTIONIZING AGRICULTURE!

Contact :
Department of Botany,
Shri Shivaji Science College, Congress Nagar, Nagpur.

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REPORT

Department of Botany, Shivaji Science College, Nagpur was completed the project on 'Hydroponics' for the awareness among the students about soil less farming techniques during the session 2022-23.

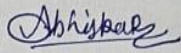
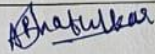

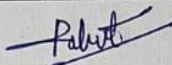
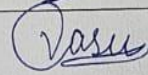
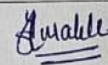
In recent years hydroponics is seen as a promising strategy for growing different crops. As it is possible to grow short duration crop like vegetables round the year in very limited spaces with low labour, so hydroponics can play a great contribution in areas with limitation of soil and water and for the poorer and landless people. In India, the hydroponic industry is expected to grow exponentially in near future. To encourage commercial hydroponic farm, it is important to develop low cost hydroponic technologies that reduce dependence on human labour and lower overall startup and operation.



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Prof. R.N. Deshmukh
HOD & Project Coordinator

Shri Shivaji Education Society Amravati's SCIENCE COLLEGE, Congress Nagar, Nagpur

DEPARTMENT OF BOTANY
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HYDROPONICS
Session 2022-2023

Sr. No.	Name of Students	Signature
1	Abhishek Batke	
2	Akshay Bhatkulkar	
3	Madhavi Roria	
4	Rohit Jambhule	
5	Vasu Madekar	
6	Yash Mahule	



Prof. R.N. Deshmukh
HOD & Project Coordinator

ACTION TAKEN REPORT

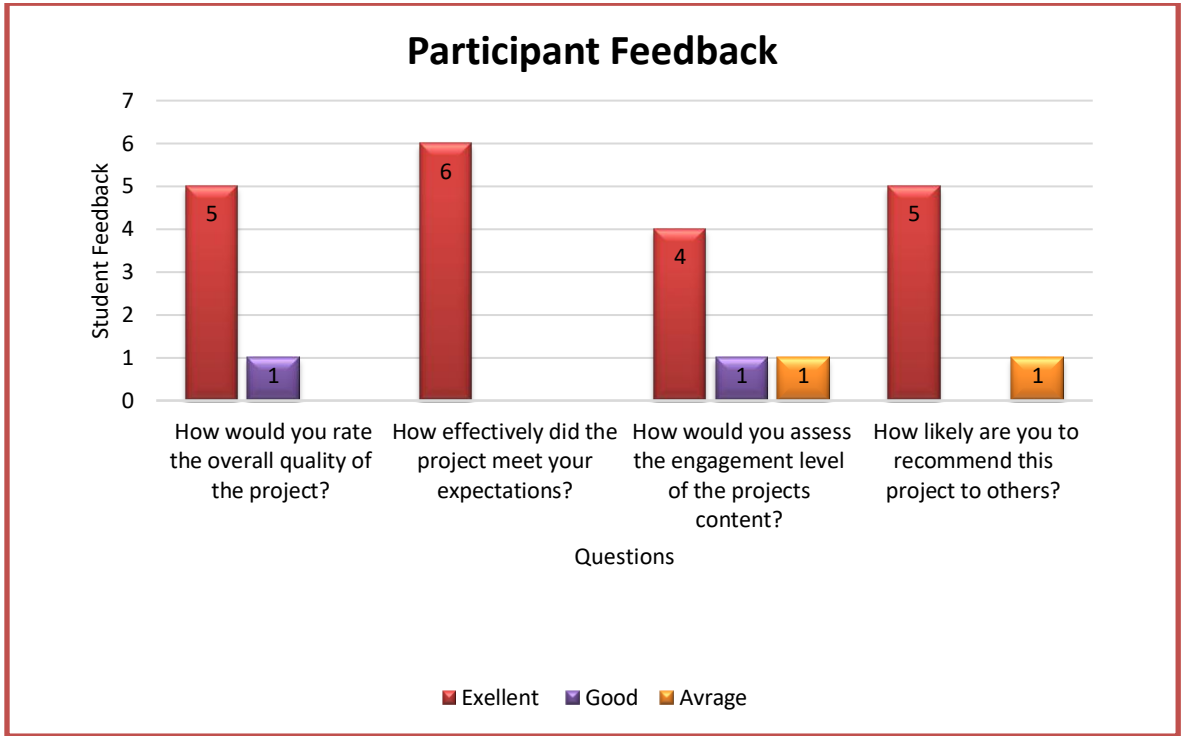
The Department of Botany, Shri Shivaji Science College, Congress Nagar, Nagpur, successfully completed a project on 'Hydroponics' during the 2022-2023 academic session. The project aimed to raise awareness about soil-less farming techniques among B.Sc. students, highlighting the benefits of hydroponics, especially for regions with limited soil and water resources. Student's setup of a small-scale hydroponics system where they gained hands-on experience in growing vegetables and short-duration crops. The project emphasized the potential of hydroponics as a sustainable solution, particularly for landless farmers and resource-constrained areas, aligning with the growing demand for low-cost, labor-efficient agricultural technologies in India.

FEEDBACK QUESTIONS

- 1) How would you rate the overall quality of the project?
{ Good / Better / Average }
- 2) How effectively did the project meet your expectations?
{ Good / Better / Average }
- 3) How would you assess the engagement level of the projects content?
{ Good / Better / Average }
- 4) How likely are you to recommend this project to others?
{ Good / Better / Average }



Prof. R.N. Deshmukh
HOD & Project Coordinator



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Prof. R.N. Deshmukh
HOD & Project Coordinator

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Signature of IQAC Coordinator
Internal Quality Assurance Cell
(IQAC)
S. S. E. S. A. Science College
Congress Nagar, Nagpur



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Signature of Principal
Principal
S. S. E. S. Amravati's
Science College, Nagpur.