

**BEST PRACTICES**

**2022-2023**

**Shri Shivaji Education Society**

**Amravati's Science College,**

**Congress Nagar Nagpur-**

**440012 (M.S.)**

1. **Title of Practice** *“Hydroponic Farming”*

2. **Goal:** To provide efficient eco-friendly farming, an alternative to retrenching agricultural land.

3. **The context:** Humans are now up against a myriad of new demanding issues that are leading to dramatic changes to our global lifestyles: climate change, hazardous infectious diseases, increasing urbanization, and the depletion of natural resource deposits. Hydroponic farming has strong potential to resolve the issues posed to our agricultural system. Crops grown indoors and hydroponically can be grown anywhere on Earth at any time of the year, regardless of weather conditions, availability of cultivable land, or soil quality. Hydroponic farming has the potential to provide fresh, local food for areas with extreme droughts and low soil quality. Hydroponic technique also enables the scientists to optimize the inputs of water, nutrients, and light fed to the plants. In India, the hydroponic industry is expected to grow exponentially shortly.

4. **The practice:** Staff & students of the Department of Botany initiated the concept of a hydroponics system on the college “C” Block Rooftop. The system includes 1 set of 6 Premium Food-grade PVC planting pipes with 48 Holes, spacing between Holes are 2”; Overall Dimension is 37.4 x 13.8 x 16.9 inches, a timer, water pump, hose, power plug and 48 planting baskets. The timed Circulation System is maintained with a 10W water pump and a timer for better water circulation, making plants grow better. Oxygenated water and nutrients are delivered directly to the roots, which makes vegetables more nutritious and better-tasting using 20L water tank. Green leafy vegetables such as lettuce, tomato, spinach, and coriander celery, are successfully cultivated in our system.

5. **Evidence of Success:**

- Project in charge Prof. R.N. Deshmukh presented Hydroponics at the 123<sup>rd</sup> Indian Science Congress, organized by RTM, Nagpur University Nagpur.

- Faculty member Prof. Punita Tiwari along with 4 students presented Hydroponic by PowerPoint presentation at a national conference organized by the Indian Women Scientists Association, at NEERI, Nagpur.

- The vegetables produced through this best practice are given to the staff members of the college.

- The project is effectively carried out by the students under the monitoring of teachers from the Department of Botany.

## 6. Resources required:

Polymer sheets, liquid nutrients, green net, PVC Pipes, circulation of water, and nutrient administration.

## 7. Contact Details:

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Congress Nagar, Nagpur

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**Principal Sir's visit to Hydroponic farming**



**Hydroponic production**



**Overview of Hydroponic farming**



Students working in the hydroponic system



Prof. R. N. Deshmukh presented Hydroponics in 123<sup>rd</sup> ISCA, Nagpur



**Prof. Punita Tiwari presenting Hydroponics at National Conference organized by IWSA, at NEERI**

**The following students are actively involved in this Hydroponic Farming project of the college:**

- Akshay Bhatkhulkar
- Rohit Jambhule
- Samiksha Wankhede
- Yash Mahule
- Denen Giri
- Abhishek Batke
- Sameer Gaurkar

  
A. A. Halder

Dr A. A. Halder  
Coordinator, IQAC  
Science College,  
Congress Nagar, Nagpur



Prof. M. P. Dhore  
Principal  
Science College,  
Congress Nagar, Nagpur



Shri Shivaji Education Society Amravati's  
**Science College, Congress Nagar, Nagpur**  
**Best Practices 2022-2023**

**Best Practice II**

**1. Title: Institutional Social Responsibility**

- Annapurna Yojana
- College social responsibility (CSR) scheme

**2. Goal:** Step towards Food Charity and Financial Empowerment of needy and promising students.

**3. The Context:**

- **Annapurna Yojana** The Annapurna Yojana, spearheaded by SSES Amravati, embodies institutional social responsibility by offering food donations to the families of patients in Dr. Panjabrao Deshmukh memorial medical college and Hospital, Amravati run by our parent society. This noble endeavour entails extending food assistance to relatives or caregivers who accompany patients throughout their hospital stay. By easing the financial strain and emotional stress encountered by these families during annoying times, this initiative not only promotes their well-being but also fosters a more compassionate and inclusive healthcare atmosphere. Committed to its cause, the Annapurna Yojana ensures the provision of wholesome meals to deserving families of patients admitted to Dr. Panjabrao Deshmukh memorial medical college and Hospital, Amravati, thus embodying the ethos of benevolence and support.
- **College social responsibility (CSR)** refers to the responsibility of institutions to act in ways that benefit society beyond their direct organizational interests. It involves considering the impacts of their decisions and activities on students. This includes financial support to the indigent and committed students. **CSR scheme run by the college** to provide financial assistance to empower the poor and promising students excelling in different curricular and co-curricular activities. It also supports the student's dream for education, culture, research, patent registration, library deposit, etc.

**4. The Practices:**

- Faculty members and non-teaching staff of SSES Amravati 's Science College, Nagpur, supporting this noble cause named "Annapurna Yojana" in terms of financial assistance of

Rs 100/- per month by UG Faculty, 75/- by junior college teachers, 50/- by non-teaching staff and Rs 500/- per month by the Principal. All employees of our college generously donate a total amount of 6,200/- rupees every month to the Dean, Dr. Panjabrao Deshmukh Smruti Medical College & Hospital, Amravati to support the “Annapurna Yojana”.

- The CSR fund is generated by voluntary donations of teaching and non-teaching staff members from their monthly salary. The collected fund is disbursed to beneficiary students who excel in various activities and also participate in various activities at the university, state, and national levels. Principal Prof. M.P. Dhore disburses the amount to the students as per their needs every year.

The list of students who received financial assistance during session 2022-23 is as follows:

Sr. No.	Name of Student	Year	Sanctioned Amount
1.	Vishal R. Kharchwal	M.Sc. – II	4865/- (Four thousand eight hundred and sixty-five Rupees Only)
2.	Chetan G. Khadse	BCA – III	3425/- (Three thousand four Hundred and twenty-five Rupees Only)
3.	Mayur D. Shivankar	MSc II	875/- (Eight hundred and seventy-five rupees only)
4.	Dr. Sugandha Khangar (Teacher In-Charge)	(UG + PG) Physics Students	6950 + 15000 = 21950/- (Twenty-one thousand nine hundred and fifty rupees only)
5.	Ku. Shreya N. Dokwal	B.Sc. II	3705/- (Three Thousand Seven Hundred and Five Rupees Only)
6.	Ku. Renuka S. Ayyagiri	BSc - I	3785/- (Three thousand seven hundred and eighty-five Rupees Only)
7.	Ku. Kiran S. Rao	BSc II	3805/- (Three thousand eight hundred and five rupees only)
8.	Ku. Khushi A. Ghate	BCA – I	5000/- (Five thousand rupees only)
9.	Ku. Tanuja K. Shinde	BSc II	1500/- (one thousand and five hundred rupees only)
10.	Ku. Sana S. Khan	MSc I	5000/- (Five thousand rupees only)
11.	Mayur D. Shivankar	MSc II	5000/- (Five thousand rupees only)



## Evidences of Success:

- **Vishal Karchwal received the award** in the International Youth Festival organized by Lovely Professional University, Jalandhar, Phagwara, Punjab.
- VUPTA Seminar -23 was organized by Shivprasad Sadanand Jaiswal College Arjuni (Morgaon) during 20-21<sup>st</sup> February 2023. A total of 17 students from our college participated in VUPTA - 2023 organized by Shivprasad Sadanand Jaiswal College Morgaon/Arjuni. Out of which 7 students participated in Poster Presentation and 10 participated in Oral Presentation.
- Out of all these following students have bagged the prizes
  1. Miss. Anushka Palandurkar SEM-II bagged 1st Prize in the Seminar and 2nd Prize in the Elocution Competition.
  2. Miss. Suhani Thakare- 3rd Prize in General Knowledge Quiz.
  3. Mr. Abhinav Gotmare - SEM-VI bagged 3rd Prize in Seminar
  3. Mr. Mayur Shivankar- SEM IV M.Sc. -2nd Prize in Seminar
  4. Miss. Riya Faldu SEM-II MSc - 3rd Prize in Poster presentation.The remaining students have been appreciated with participation certificates.



**Hon'ble Principal Prof. M. P. Dhore sir giving CSR money to the students**



Mr. Vishal Karchwal received an Award in the International Youth Festival organized by Lovely Professional University, Jalandhar, Phagwara, Punjab.



Shivaji Science College students excel in Vidarbha University Physics Teachers Association (VUPTA) seminar.

*A. A. Halder*  
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