

## SHIVAJI SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR

### DEPARTMENT OF BOTANY

#### Inauguration of 'Amritvatika' and launch of 'Shivaji Organics'

12 March 2025

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#### REPORT

The Department of Botany, Science College, Congress Nagar, Nagpur, successfully organized the grand inauguration and launch of Amrut Vatika and Shivaji Organics on March 12, 2025. The event was held at the Knowledge Resource Centre (Library) and was followed by a garden visit. The initiative aimed to promote sustainable agricultural practices and environmental awareness. The primary objectives of launching Amrut Vatika and Shivaji Organics were to establish an educational botanical garden showcasing diverse plant species, promote organic and eco-friendly Agro-fertilizers, encourage sustainable farming methods through organic waste management, and raise awareness about the importance of medicinal plants, hydroponics, and soil-less farming. The event commenced at 2:00 PM with the arrival of the esteemed guests. The lighting of the traditional lamp marked the auspicious beginning, followed by a floral welcome ceremony. Convener Dr. Reshma P. Sonwalkar delivered an introductory speech emphasizing the vision and mission behind the initiative. This was followed by the digital inauguration of Amrut Vatika and the official launch of Shivaji Organics. Under the 'Shivaji Organics' initiative, the production of biofertilizers was inaugurated, featuring two key products. 'Grow Max' (Liquid Biofertilizer), developed under the guidance of Dr. Reshma Sonwalkar and Mr. Piyushkumar Sharma, is an eco-friendly fertilizer created by repurposing onion and garlic peels, mixed fruit and vegetable peels, and banana peels. 'Azolla Biofertilizer,' developed under the guidance of Swapnil Fuse, Aishwarya Zure, and Piyushkumar Sharma, enhances soil fertility and promotes sustainable agriculture. Additionally, a hydroponics unit and Mushroom cultivation was established under the Guidance of Dr. R.H. Mahakhode to demonstrate soil-less plant growth techniques, promoting water-efficient farming. Mushroom cultivation was introduced as an entrepreneurial initiative, allowing students to gain hands-on experience in sustainable food production. A structured herbarium preparation initiative was also undertaken to

document plant specimens scientifically, providing an academic resource for botanical studies and research.

During the event, the book 'Amritvatika,' authored by Dr. Reshma Sonwalkar, Dr. Tinku Kumar, and Mr. Piyushkumar Sharma, was unveiled by the chief guests. Two significant initiatives were also launched: the 'Fossil Depository' (Jivashm Dalan), which includes a collection of ancient fossils useful for geology and biology research, and 'Campus Tree Flora' (Parisar Vriksha Sampada), which documents and conserves tree species found on campus.. The event also featured the unveiling of the fossil depository and campus tree flora. Guest of Honor Prof. Nitin Dongarwar sir shared his insights on the significance of botanical conservation and organic farming. Prof. Punita Tiwari addressed the audience with a few words of encouragement. The Chief Guest, Dr. Kalpana Pandey, delivered an inspiring speech on the role of sustainable practices in modern agriculture. Principal Dr. O. S. Deshmukh then delivered the presidential speech, emphasizing the college's commitment to environmental conservation and innovative agricultural solutions.

The 'Amritvatika' project was developed on the rooftop garden of the college under the guidance of Dr. Reshma Sonwalkar and B.Sc. Semester-I students. This unique initiative consists of over 100 plants covering more than 50 different plant families, including 45+ medicinal plants. It also features Xerophytes, spices, ornamental plants, hydrophytes, and plants categorized based on zodiac signs and planetary influences. Each plant has a QR code providing details such as common name, botanical name, family, and medicinal uses. Faculty members and media personnel appreciated the efforts of students after an extensive observation of the project.

The event was excellently anchored by Himanshi Shiv, and a vote of thanks was delivered by Ms. Aishwarya Zure.

### **Action Taken:**

To enhance awareness and training, students were provided hands-on sessions on rooftop gardening, hydroponics, biofertilizer preparation, and mushroom cultivation. QR code tagging for plant identification was successfully implemented, and organic fertilizers

were tested in the college gardens and nearby agricultural lands. The fossil depository, campus tree documentation, and herbarium collection were also established as valuable academic resources.



Signature of Teacher

Dr. R.P.Sonwalkar  
Convener



**Prof. P.S.Tiwari**

**HOD**

HEAD  
DEPARTMENT OF BOTANY  
SHRI SHIVAJI EDUCATION SOCIETY  
AMRAVATI'S SCIENCE COLLEGE  
CONGRESS NAGAR, NAGPUR

**Feedback Form:**  
**DEPARTMENT OF BOTANY**

**Inauguration of 'Amritvatika' and 'Shivaji Organics'**

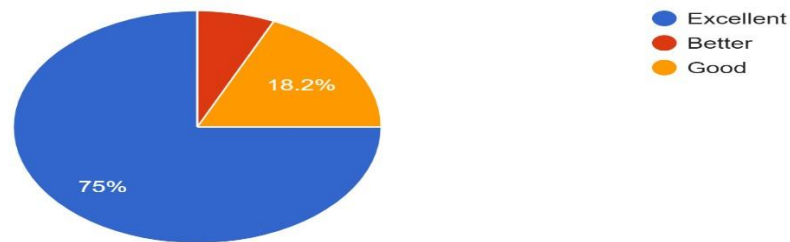
<p><b>Email *</b></p> <p>Valid email</p> <p>This form is collecting emails. <a href="#">Change settings</a></p>
<p><b>Full Name *</b></p> <p>Short answer text</p>
<p><b>Class *</b></p> <p>Short answer text</p>
<p><b>Mobile no. *</b></p> <p>Short answer text</p>
<p><b>1. How would you rate the content quality of the event? *</b></p> <p><input type="radio"/> Excellent</p> <p><input type="radio"/> Better</p> <p><input type="radio"/> Good</p>
<p><b>2. How relevant do you find the projects for research and development? *</b></p> <p><input type="radio"/> Excellent</p> <p><input type="radio"/> Better</p> <p><input type="radio"/> Good</p>
<p><b>3. How would you rate the practical implementation? *</b></p> <p><input type="radio"/> Excellent</p> <p><input type="radio"/> Better</p> <p><input type="radio"/> Good</p>
<p><b>4. How was the overall event organization? *</b></p> <p><input type="radio"/> Excellent</p> <p><input type="radio"/> Better</p> <p><input type="radio"/> Good</p>

## Feedback and Analysis:

A feedback form was distributed among attendees, including students, faculty members, and guests. The responses were analysed, with the following observations:

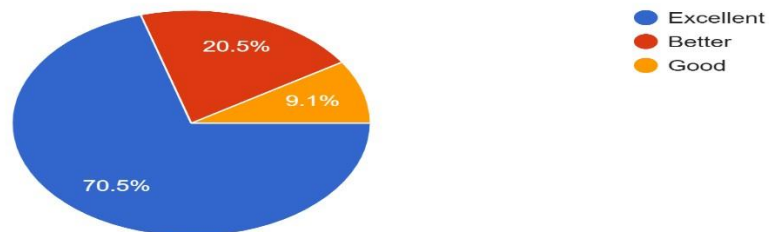
### 1. How would you rate the content quality of the event?

44 responses



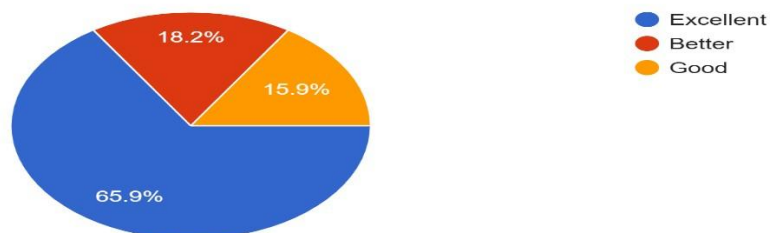
### 2. How relevant do you find the projects for research and development?

44 responses



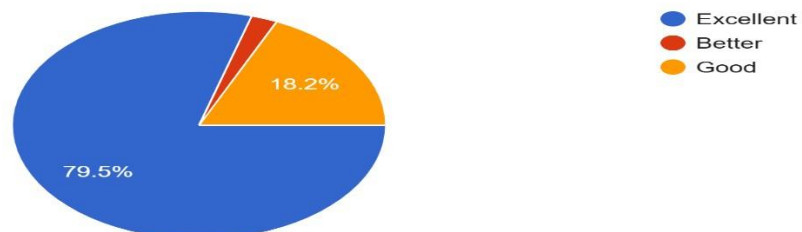
### 3. How would you rate the practical implementation?

44 responses



### 4. How was the overall event organization?

44 responses



1	Full Name	Class	1. How well	2. How fast	3. How would	4. How well
2	Reshma		Excellent	Excellent	Excellent	Excellent
3	Aarchi Sanodiya	Bsc Semester 2	Excellent	Excellent	Excellent	Excellent
4	Trupti Burande	Bsc 1st year botany	Excellent	Excellent	Excellent	Excellent
5	Piyushkumar Rajendra S -		Excellent	Excellent	Excellent	Excellent
6	Sapna harish mishra	1st year sem 2	Excellent	Excellent	Excellent	Excellent
7	Vaishnavi Kondalkar	B. Sc sem 2	Good	Good	Good	Good
8	Shravani Raut	1st year	Excellent	Better	Excellent	Excellent
9	Mansi balle	Bsc 1st year	Good	Good	Better	Good
10	Saisha Guralwar	BSC 1st year	Good	Excellent	Good	Excellent
11	Avantika Somkuwar	Bsc sem 4	Excellent	Excellent	Excellent	Excellent
12	Samiksha Pralhad Tirpu	BSC 1st year	Good	Excellent	Better	Excellent
13	Rajshree Parmanand Ko	M.Sc.Botany Final Year	Better	Good	Excellent	Excellent
14	Bhupendra Tikaram Kur	Staff	Excellent	Excellent	Excellent	Excellent
15	Pradnya wasnik	2 year cbm	Excellent	Excellent	Excellent	Excellent
16	Prince Shrikant Nagdev	Bsc 1st year	Excellent	Excellent	Excellent	Excellent
17	Gayatri Tejram Uikey	Bsc 3 rd year (sem -6)	Good	Better	Excellent	Excellent
18	Umesha Hiralal Raut	Bsc. 1 year Botany	Excellent	Excellent	Excellent	Excellent
19	Nishant Pachori	BSC 1 YEAR	Excellent	Excellent	Excellent	Excellent
20	Payal Shivramji Dharpu	M.Sc. 1st year	Excellent	Better	Good	Excellent
21	Bhumika Mahesh Gour	BSC 1st year	Excellent	Better	Good	Good
22	Janhvi Hemant Kayarkar	Msc sem 2	Excellent	Excellent	Better	Excellent
23	KALYANI VINAYAK KAR	MSC 1st year botany	Excellent	Excellent	Excellent	Excellent
24	Vedakshi lahane	Botany 1 year	Excellent	Excellent	Excellent	Excellent
25	Aishwarya pramod bam	M.sc 2nd yr	Excellent	Excellent	Excellent	Good
26	Dr, Anita M. Katgaye	Teacher	Excellent	Excellent	Better	Excellent
27	Rishika chachada	Bsc 1st year	Excellent	Excellent	Excellent	Excellent
28	Umakanti Jagmohan Ba	B.sc - 3 year	Excellent	Better	Excellent	Excellent
29	Poonam Pravin khope	M.sc (Botany) 2nd Sem	Better	Better	Better	Excellent
30	Aakanksha Lahanu Was	M. Sc final year	Good	Excellent	Better	Good
31	Aashi karosiya	Bsc sem 2	Excellent	Excellent	Excellent	Excellent
32	Himani rajesh deokar	Bsc 1 year botany	Excellent	Better	Good	Excellent
33	Ruchita mathankar	Sem 2	Excellent	Excellent	Excellent	Excellent

34	Falguni	Msc 1 yr	Excellent	Excellent	Excellent	Excellent
35	Hemanshi Shiv	Bsc sem2	Excellent	Excellent	Excellent	Excellent
36	Shreya Dnyaneshwar W	Bsc 2nd year	Excellent	Excellent	Excellent	Excellent
37	Tannu ghutke	Bsc 1 yr	Excellent	Excellent	Excellent	Better
38	Khushhoo Sanjay Choub	1st year Bsc	Excellent	Better	Good	Excellent
39	Sejal Borkar	2nd year	Excellent	Excellent	Excellent	Excellent
40	Kalyani chudaman Shah	MSC botany sem 2	Good	Excellent	Better	Good
41	Pooja Sohan rodekar	MSc botany	Excellent	Better	Better	Excellent
42	Priyanka kishor ingale	3rd year	Better	Good	Good	Good
43	MUGDHA GOLE	Bsc 1st year ( Botany)	Excellent	Excellent	Excellent	Excellent
44	Sangita suthar	Sem 4	Excellent	Excellent	Excellent	Excellent
45	Aman Thavre	M.sc 1st sem	Good	Excellent	Excellent	Good

*Reshma*

Dr. Reshma P. Sonwalkar

Convener

*P. S. Tiwari*



Prof. P. S. Tiwari

HEAD

Assistant Professor  
Department of Botany  
SSES Am's Science College,  
Congress Nagar, Nagpur-12.

Professor and Head  
Department of Botany,  
SSES Am's Science College,  
Congress Nagar, Nagpur-12





Shri Shivaji Education Society Amravati's

## SCIENCE COLLEGE

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



## DEPARTMENT OF BOTANY

# Organizing THE GRAND INAUGURATION & LAUNCH OF



### Chairperson

**Dr. O. S. Deshmukh**

Principal

### Chief Guest

**Dr. Kalpana Pandey**

President, Shikshan Manch, Former Mayor  
Nagpur

### Guest of Honor

**Prof. Nitin Dongarwar**

Head, P.G.T. Department of Botany,  
RTM . Nagpur University, Nagpur.

### Head

**Prof. P. S. Tiwari**

Head, Department of Botany

### Convener

**Dr. Reshma P. Sonwalkar**

**Dr. Rupali H. Mahakhode**

### Co - Convener

**Mr. Piyushkumar R. Sharma**



### About Amrutvatika

Amrut Vatika is a unique educational garden showcasing sustainable practices and diverse plant species. It features sections like Rashi Vatika, Navgrah Vatika, Medicinal plants, Hydrophytes, Xerophytes, Spice Corner, organic/Soilless farming and Hydroponics, promoting environmental awareness.

### About Shivaji Organics

Shivaji Organic Products offers eco-friendly agro-fertilizers and bio-fertilizers made from Azolla and organic waste like fruit and vegetable peels. These products promote sustainable farming while reducing waste. Our initiative reflects a commitment to environmentally conscious and innovative agricultural solutions.

### DETAILS OF PROGRAM

Date : 12/03/2025 | Time: 2:00 PM

Venue : Knowledge Resource Centre (Library) Followed by Garden visit.





**S.S.E.S Amt's Science College, Congress Nagar, Nagpur**

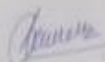
**Department of Botany**

NOTICE

All UG and PG students are hereby informed that the **Inauguration of Amrut Vatika** and the launch of **Shivaji Organics** developed by the **Department of Botany, SSES AMT's Science College, Nagpur**, will take place on **12th March 2025**. As a part of the academic curriculum, students are expected to attend this event to enhance their understanding of sustainable agricultural practices and organic farming innovations. This will be a valuable learning opportunity to witness the practical application of botanical research.

Venue- Knowledge Resource Centre (Library) Followed by Garden visit.

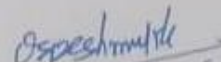
Time: 2:00 PM.



Convener  
Dr. R. P. Sonwalkar



Head  
Prof. P.S. Tiwari



Principal  
Dr. O.S. Deshmukh

Inauguration of Amul Vastu & launch of Shivaji  
organics - 12/03/2025  
Attendance sheet.

Name of Participants	Sign.
1) Piyush Rajendra Sharma	Sharma.
2) Swapnil Pandurang Fuse	Fuse...
3) Z.P. R-P Sonwalkar	<del>R.P.</del>
4) Ruchita S. Mathankar	@mathankar
5) Himani R. Deokar	HDeokar
6) Dharmarajy A. Kerkar	Akerkar
7) Pooja S. Nagdeve	<del>P.N.</del>
8) Umesh H. Raut	<del>C.Raut</del>
9) Samiksha P. Tirpude	<del>F.T.</del>
10) Saisha N. Guralwar	Saisha
11) Hemanshi Shiv	HShiv
12) Rutuja Waghmare	R.Waghmare
13) Vaishnavi Kondalkar	Vaishnavi
14) <del>Khushi</del> Sanjay Choubey	<del>Khushi</del>
15) Shruvami R. Raut	<del>S.Raut</del>
16) Rishika K. Chachada	Rishika
17) Harehali V. Thaware	HThaware
18) Sapna H. Mishra	H.Mishra
19) Pooja A. Bhongade	P. Bhongade
20) Raveet Kaur	Raveet
21) Tanu Ghutke	Ghutke
22) Ishita Madame	IMadame
23) Janvi Wasake	JWasake
24) Shruvami Khandhare	Shandare
25) Snehal Khobragade	Shobragade
26) Tepti Buvande	Tuvande
27) Aachi K. Sanodiya	Asanodiya
28) Aashi Karoshiya	Akaroshiya

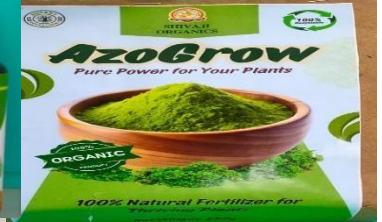




Inauguration of Shivaji Organics



Latitude: 21.128166  
Longitude: 79.081919  
Elevation: 321.26+2 m  
Accuracy: 219 m  
Time: 12-03-2025 14:53  
Note: Inauguration of Amrut Vatika and launch of Shivaji Organics



Latitude: 21.12817  
Longitude: 79.08192  
Elevation: 321.26+2 m  
Accuracy: 219 m  
Time: 12-03-2025 14:55  
Note: Inauguration of Amrut Vatika and launch of Shivaji Organics



# देशोन्नती

## शेतकऱ्यांनी सॅद्रिय शेतीकडे वळावे

डॉ. कल्पना पांडे यांचे प्रेरणादायी शिबिरात शिबिरातून केलेले सीडबँक आणि रसवनाची निर्मिती | शिबिरातील विद्यार्थ्यांच्यासाठी आयोजित शिबिराचा प्रारंभ

**उत्पादनावर होतोय परिणाम**

शिवजी शिक्षण संस्थेच्या अग्रणी शाळा, शिबिरातून केलेले सीडबँक आणि रसवनाची निर्मिती | शिबिरातील विद्यार्थ्यांच्यासाठी आयोजित शिबिराचा प्रारंभ

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### THE TIMES OF INDIA

## Shivaji Science College Launches AI-Driven Gardening Solutions

Mar 12, 2025, 23:59 IST

Nagpur: The Botany Department of Shivaji Science College unveiled its innovative AI-driven educational garden, 'Amrut Vatika', on Wednesday. The initiative aims to foster sustainability & environmental awareness among students and the community at large.

The garden features specialized sections such as Rashi Vatika and Navgrah Vatika, showcasing plants associated with zodiac signs and planetary influences. Other areas include Medicinal Plants, Hydrophytes, Xerophytes, Spice Corner, & Soilless Farming, highlighting diverse plant species & sustainable practices.

Alongside the garden, several unique projects were introduced. Talking Tree, an interactive digital initiative, engages visitors in learning about plant species. Talking Fossils showcases fossilized plant specimens, tracing the evolution of flora over time. The 'Seed Bank' aims to preserve native and rare plant species, contributing to biodiversity conservation. 'Herbanique - The Art of Preserving Nature' blends traditional and modern techniques to preserve medicinal and endangered plants. The Digital Flora