

**SSES AMRAVATI'S SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.**

**Department of Botany**

**Academic Year: 2024-2025**

**REPORT ON**

## **INAUGURATION OF TALKING FOSSILS & TALKING TREE**

*A Groundbreaking Initiative by the Botany Department of Shivaji Science College Nagpur*

In a significant step towards interactive learning, the Department of Botany at **SSES AMT's Science College, Congress Nagar, Nagpur**, has introduced an innovative educational initiative - **Talking Fossils and Talking Plants**. This project employs cutting-edge **scannable and audible QR technology** to offer detailed information about fossils and plant species, making learning an engaging and immersive experience for students and visitors alike. This pioneering initiative was led by students working alongside faculty members **Dr. T. Rajput** and **Mr. Piyushkumar R. Sharma** under the expert guidance of **Principal Dr. O.S. Deshmukh** and **Prof. P.S. Tiwari**, Head Botany department. The official launch event was attended by **Chief Guest Dr. Kalpana Pandey, President Shikshan Manch, RTMNU and former mayor of Nagpur**, with **Guest of Honor Prof. Nitin Dongarwar, Prof. and Head of P.G.T.D of Botany, RTMNU**, along with faculty, students, and staff.

Chief Guest **Dr. Kalpana Pandey** praised the initiative for integrating technology with education, making botanical and paleontological knowledge accessible. She highlighted its role in fostering curiosity and experiential learning. **Prof. Nitin Dongarwar** highlighted the uniqueness of the initiative, noting that he had not seen such technology in any other colleges. He emphasized the importance of using technology to preserve scientific knowledge and encouraged further advancements.

With each fossil and trees labelled with a **QR code**, students and visitors can scan to receive **audio descriptions** detailing the specimen's characteristics, historical significance, and ecological importance. This interactive, self-paced learning method bridges the gap between theoretical concepts and practical understanding.

**Dr. O. S. Deshmukh**, Principal of the college, appreciated the department's dedication to enhancing accessibility and interactive learning. **Prof. Tiwari** emphasized how the initiative supports the college's mission to promote experiential education. The **Talking Fossils and Talking Plants** project aims to inspire curiosity and expand knowledge, benefiting not only students but also researchers, schoolchildren, and the general public. **SSES AMT's Science College** continues to set a benchmark in educational innovation with this forward-thinking initiative.

Miss. Himanshi Shive Conducted the program, Ms. Shruti Agarwal introduced the guests while Ms. Aishwarya Zure proposed vote of thanks. Dr. R. H. Mahakhode, Dr. S.S. Deshmukh, Dr. Anita M. Katgaye, Dr. R. P. Sonwalkar and Swapnil Fuse. The students of UG and PG First year of along with technical staff members Mr. Prashant Ankalwar and Mr. Shivam Ambone supported the event.



Students Scanning QR Codes of talking fossils



Students Scanning QR Codes of talking fossils



Faculty student's interactions for talking fossils





Students Scanning QR Codes of talking tree



Students Scanning QR Codes of talking tree



Students Scanning QR Codes of talking tree



\_Axis Impression.



Auroucarioxylon



Cycadeoidea



Glossopteris varica.



Glossopteris



Glossopteris subtilaes



Nilssonia



petrified dicot root



Pseudofossil



Enigmocarpon



Gangamopteris major



Glossopteris bramiana



Monocot Axis



Monocot Axis



Monocot Root



Schizoneura gondwanensis.



Tricocites

## Talking Fossil QR's





**Talking Tree QR's**

| Attendance Sheet |                      |          |                    |
|------------------|----------------------|----------|--------------------|
| Sr. No.          | Name of Student      | Class    | Signature          |
| 1                | Falguni Shivhare     | MSc      | <i>[Signature]</i> |
| 2                | Ganeshi Karyankar    | MSc I    | <i>[Signature]</i> |
| 3                | Kamini Furse         | MSc I    | <i>[Signature]</i> |
| 4                | Amitika Khare        | MSc I    | <i>[Signature]</i> |
| 5                | Rajal Dharpure       | MSc I    | <i>[Signature]</i> |
| 6                | Shruti Samkumar      | MSc I    | <i>[Signature]</i> |
| 7                | Pooja Paliwal        | MSc I    | <i>[Signature]</i> |
| 8                | Umeshi K. Raut       | BSc I    | <i>[Signature]</i> |
| 9                | Mansi R. Raut        | BSc I    | <i>[Signature]</i> |
| 10               | Vedakshi Lahane      | BSc I-YR | <i>[Signature]</i> |
| 11               | Tegashi Mule         | BSc I-YR | <i>[Signature]</i> |
| 12               | Himanshi Deskar      | BSc I-YR | <i>[Signature]</i> |
| 13               | Ruchita S. Mathankar | BSc I-YR | <i>[Signature]</i> |
| 14               | Shivani B. Raut      | BSc I-YR | <i>[Signature]</i> |
| 15               | Sapna H. Mishra      | BSc I-YR | <i>[Signature]</i> |
| 16               | Satisha N. Ghatge    | BSc I-YR | <i>[Signature]</i> |
| 17               | Sankhya P. Tixpuri   | BSc I-YR | <i>[Signature]</i> |

*[Signature]*  
Head

Prof. P.S. Tiwari  
Professor and Head  
Department of Botany,  
SSES Am's Science College,  
Congress Nagar, Nagpur-12

| Attendance Sheet |                      |       |                    |
|------------------|----------------------|-------|--------------------|
| Sr. No.          | Name of Student      | Class | Signature          |
| 1                | Kamini Gajanan Furse | MSc   | <i>[Signature]</i> |
| 2                | Falguni Shivhare     | MSc   | <i>[Signature]</i> |
| 3                | Amitika Khare        | MSc   | <i>[Signature]</i> |
| 4                | Ganeshi Karyankar    | MSc I | <i>[Signature]</i> |
| 5                | Rajal Dharpure       | MSc I | <i>[Signature]</i> |
| 6                | Umeshi R. Samkumar   | MSc I | <i>[Signature]</i> |
| 7                | Pooja Paliwal        | MSc I | <i>[Signature]</i> |

*[Signature]*  
Head

Prof. P.S. Tiwari  
Professor and Head  
Department of Botany,  
SSES Am's Science College,  
Congress Nagar, Nagpur-12

Co-Ordinator's  
Dr. Tinku Kumar Rajput  
Mr. Piyushkumar R. Sharma *[Signature]*


## Action Taken Report

The Department of Botany at SSES AMT's Science College, Congress Nagar, Nagpur, successfully launched the innovative "Talking Fossils and Talking Plants" initiative as part of its commitment to promote interactive and experiential learning. This pioneering educational project, utilizing advanced scannable and audible QR technology, was developed by students under the mentorship of Dr. T. Rajput and Mr. Piyushkumar R. Sharma, with guidance from Principal Dr. O.S. Deshmukh and Head of Department Prof. P.S. Tiwari. The launch event, graced by Chief Guest Dr. Kalpana Pandey and Guest of Honor Prof. Nitin Dongarwar, was well-attended by faculty, staff, and students. The dignitaries appreciated the department's innovative approach to integrating technology with education, highlighting its potential to enhance accessibility and engagement in botanical and paleontological learning. The project enables users to scan QR codes on labelled plant species and fossils to access detailed audio information, fostering self-paced, immersive learning experiences. The event was smoothly coordinated by Miss Himanshi Shive, with contributions from Ms. Shruti Agarwal, Ms. Aishwarya Zure, and support from faculty members, technical staff, and students. This initiative stands as a testament to the college's dedication to educational excellence and technological integration.

### FEEDBACK FORM

| Sr.No. | Question   | Response |        |         |
|--------|--|----------|--------|---------|
|        |  | Good     | Better | Average |
| 1)     | How would you rate the effectiveness of QR code-based audio information in helping you understand the plant or fossil specimens? |          |        |         |
| 2)     | How engaging did you find the overall experience of the Talking Fossils and Talking Plants initiative?                           |          |        |         |
| 3)     | How well do you think this initiative supports self-paced learning?  |          |        |         |
| 4)     | How would you rate the educational value of this project for students and visitors?  |          |        |         |



  
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 Department of Botany  
 Professor and Head  
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