



DEPARTMENT OF BOTANY



Gokhale Education Society's
H.P.T. Arts and R.Y.K. Science College, Nashik-5
Maharashtra

History and Faculty

ESTABLISHMENT

Establishment – 1948

- ☐ T. Y. B. Sc. Botany: **June 1971**
- ☐ 1st in Nashik District who has started teaching of Botany at T. Y. B. Sc. level as a special subject.
- ☐ M.Sc. Botany: **July 2007**
- ☐ Recognized Research Center in Botany : **June 2010 (SPPU)**



Available Educational Program

- ☐ Undergraduate Course (B.Sc.)
- ☐ Post-graduate Course (M.Sc.)
- ☐ Ph.D. Program
- ☐ Implementation of NEP from the year 2024-2025
 - ☐ Introduce courses for Arts and Science faculty
 - ☐ Certificate course in Mushroom Cultivation

FACULTY

**Sr.
No**

Name

**Designation and
Experience (years)**

1

Prof. Dr. S. G. Auti

Professor and HOD - 35

2

Prof. Dr. H. A. Thakur

Professor-29

3

Dr. Mrs. U. G. Basarkar

Associate Professor -25

4

Dr. K.V.C. Gosavi

Assistant Professor -13

5

Mrs. Shilpa Jadhav

Assistant Professor -2

Non teaching Staff

Shri. V.G. Sandhan

Lab Assistant

Shri. R. V. Gulave

Lab Attendant

Shri. K.D. Bhosale

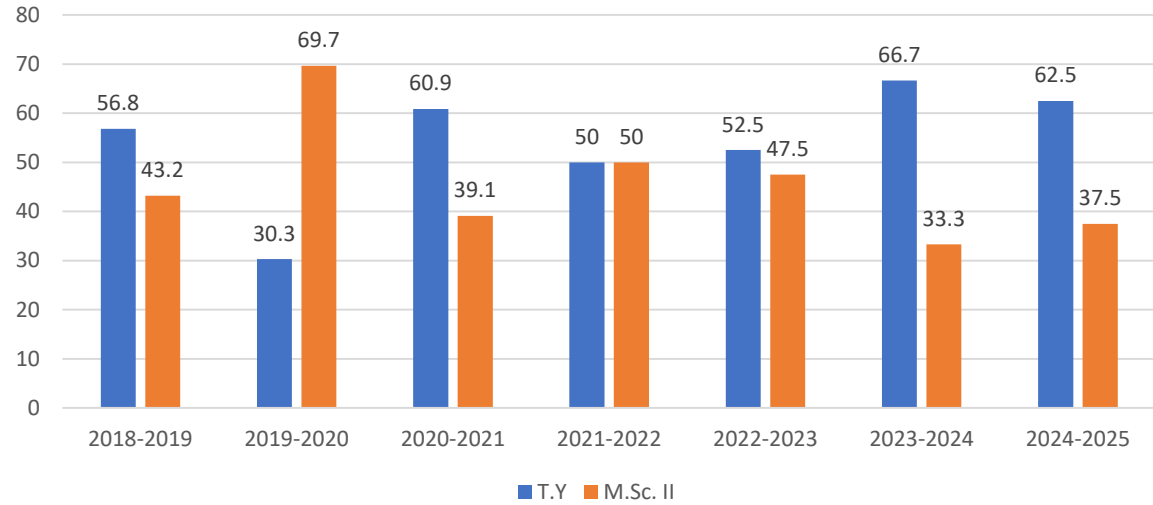
Lab Attendant

Smt. H.G. Gadkhakh

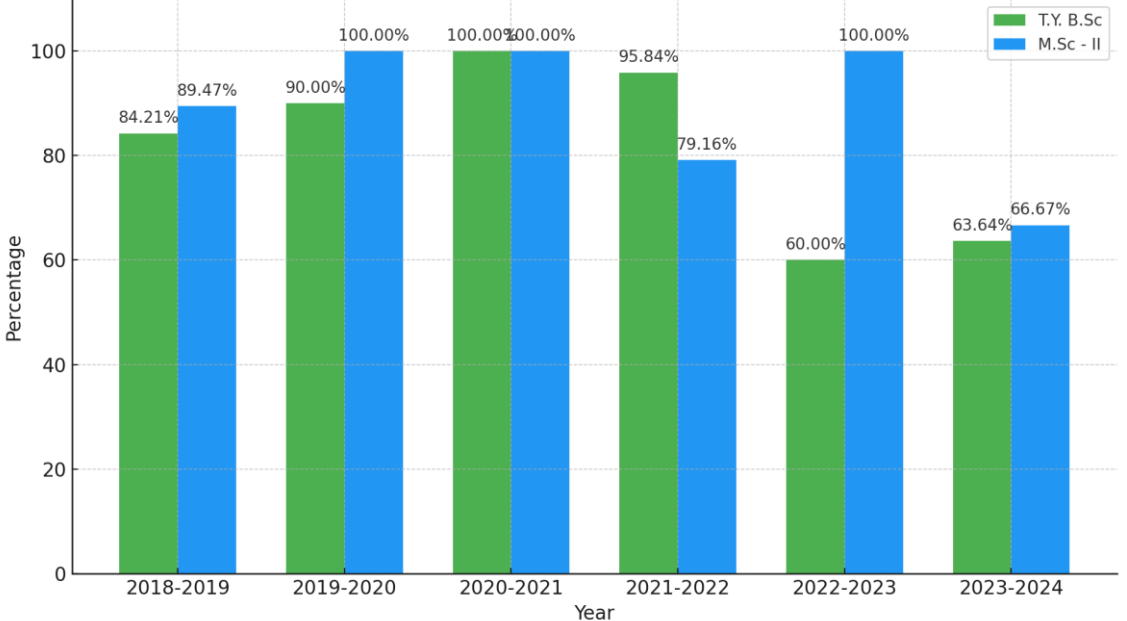
Peon

Strength-Results-Placements

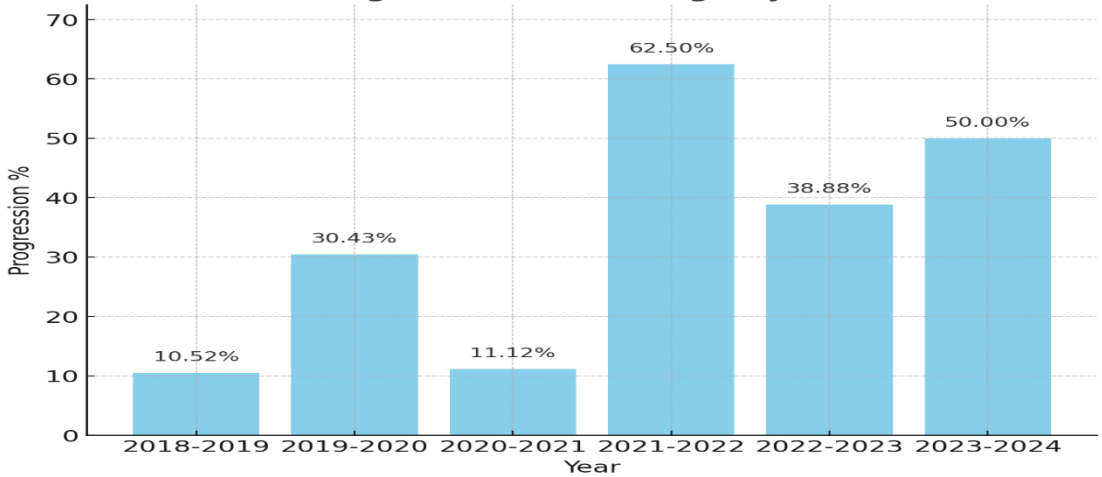
Enrollment of Students over the Years in Percentage



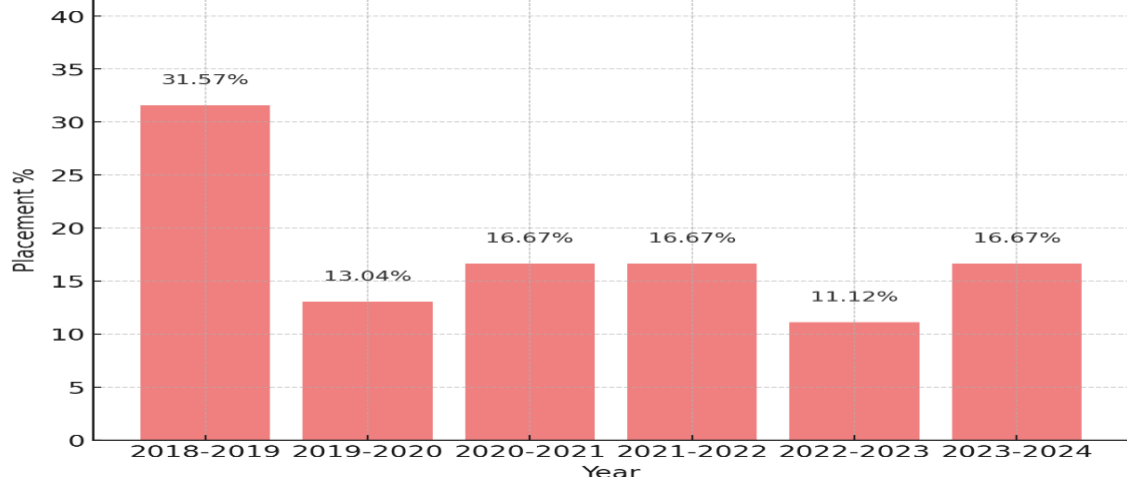
T.Y. B.Sc and M.Sc - II Results by Year



Progression Percentage by Year



Placement Percentage by Year



Infrastructure

❑ laboratories 3, classrooms 2 ,Research laboratory, ICT facilities ,Staff Room – Total Area – 2044 sq.feet

❑ Well develop and maintained Botanical Garden -120 Plant species – Area 14541 Sq.feet

Department Working

- ❑ As per BOS, Savitribai Phule Pune University, Pune
- ❑ College Academic Calendar (IQAC)
- ❑ Teaching plan
- ❑ Head of Department

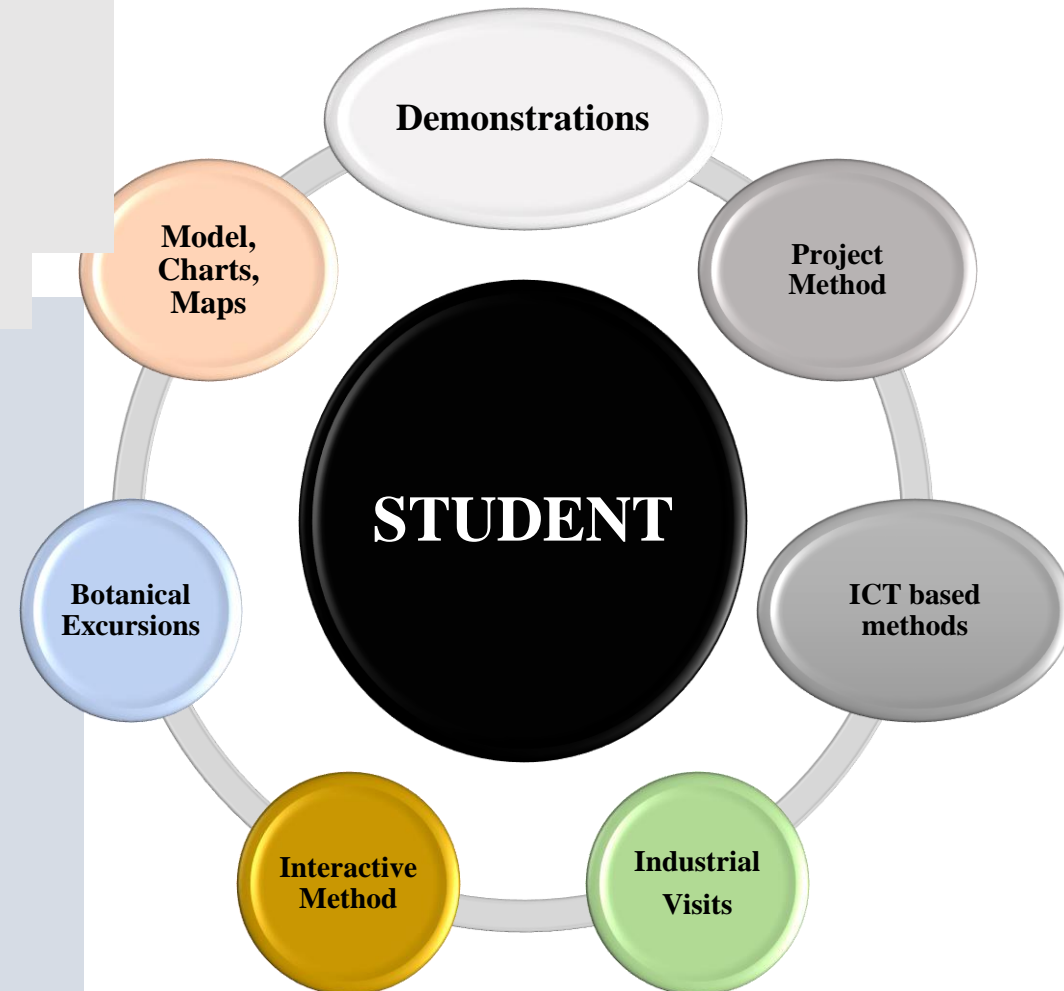
Students Support Facilities

- Sectional Library –
- Internet Facility
- Drinking water facility
- Earn and learn Scheme

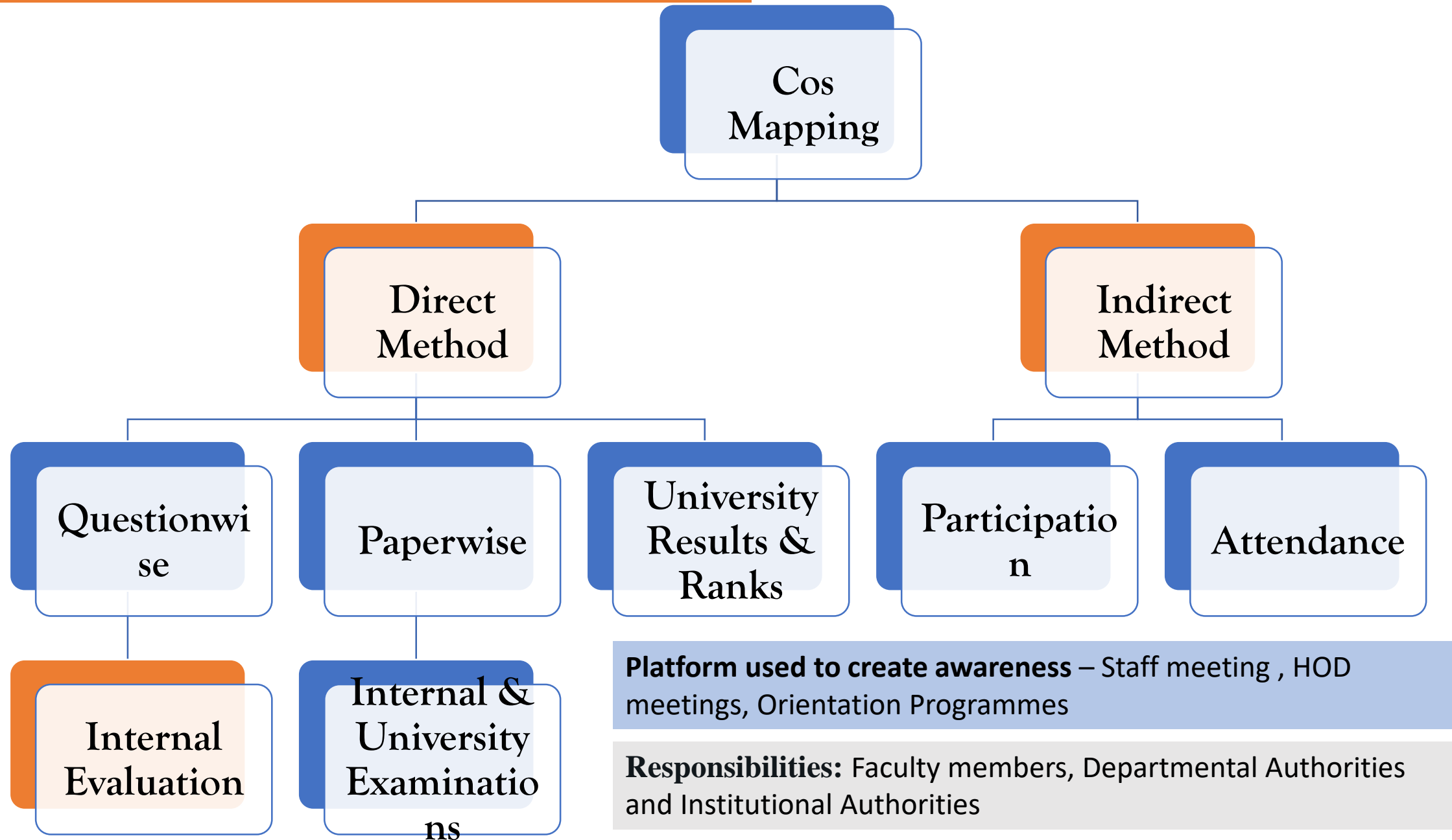
Continuous Internal Assessment

- ❑ Internal test,
- ❑ Field visit,
- ❑ Home Assignments,
- ❑ Dissertations,
- ❑ Journal writing ,
- ❑ Short presentations
- ❑ University theory and Practical examination
- ❑ Assessment of on job training courses and Dissertations

Teaching-Learning Methods



Methods Adapted for Cos Mapping



1.3.1 Cross cutting issues transacted in the syllabus 22-23

Programme Name	Level	Issues addressed
Bo-111 Plant life and Utilization	F.Y.B.Sc.	Biodiversity and sustainable ecosystem
BO-231 Taxonomy of Angiosperms	S.Y.B.Sc.	Flowering plant diversity and maintenance of ecosystem
BO-242 Plant Biotechnology	S.Y.B.Sc.	Pollution and measures to minimise it
BO-354 Plant Ecology	T.Y.B.SC.	Diversity of Ecosystems and its Managements
BO-3511 Plant diversity and Human Health	T.Y.B.SC.	Relation between Plants and Human and its sustainable development
BO-3510 Medicinal Plants	T.Y.B.SC.	Human health
BOT-505 MJ Green Belt and Green Credit	M.SC.	Global warming, carbon footprints and conservation of plant species / forest
BOT-512 MJ Biodiversity Conservation and Utilization	M.SC.	Biodiversity and sustainable ecosystem
BOT-552 MJ Taxonomy of Angiosperms	M.SC.	Biodiversity and sustainable ecosystem

2.3.1 Student centric methods

Experiential learning: Students learn through hands-on experiences and reflection

Event	Experiential learning
Hands on Training in Angiosperm Taxonomy and Preparation of Herbarium	Help students to understand core concepts in easy way and to develop skill
Field visits in Botany	Helps to understand different ecosystems and vegetation type
Industrial visits	Provide exposure to functioning and working of Industries
Demonstrations of Healthy recipes of Millets and Mushrooms	Provide nutritional importance of millets for Health
Botanica (Green Festival)	Helps to develop logical potential and soft skills through poster making, scientific sketching , floral design

Students Achivements

• Post-Graduate Level –

Students awarded University gold medal: 06

Pooja Daiya (2009), Tahsin Kazi (2011), Alka Rai (2012), Pratima Yadav (2013) , Afra Akabani (2014) and Ashwini Shimpi (2017)

• University Rank Holders: 07

Jyoti Kamat (5th), Kirti Deshmukh (5th), Rahul Shejwal (6th), Pranjali Devda (5th), Sakshi Arora (2nd), Diksha Agarwal -3rd

• Graduate Level- 07

Drushtant Buch-5th (2012), Kalyani Gunjal – 10th (2012), Kajal Jaju 7th (2015), Riya Gulchait - 9th (2017), Nikita Kambale -5th (2019), Nikita Patil -5th (2022) and Joshi 5th (2022)

Award to Research Student by Indian Association for Angiosperm Taxonomy, Calicut, Kerala

❑ Prof. R. S. Rao Award



AVISHKAR

• 15 Aavishkar Projects at College level

• 10 Projects selected from Zonal Level Aavishkar

• 2 Projects selected for University Level

• Post- Graduate Students dissertations – 62

• Participation in scientific exhibition

• Participation in Botanica – Green Festival

Sr.no	PhD Students Name	Conferences/ Seminars/workshops attended	36
1	Rushikesh Sanjay Jadhav	National – 02 International – 03 Workshops - 02	
2	Chandrika Paul	National - 01 International - 05 Workshops & seminars - 05	
3	Afra Kasim Akbani	National - 02 International - 02 (3) Workshops & seminars - 03	
4	Vaibhavi Rajendra Todkar	National - 01 International – 01 Workshops & seminars - 01	
5	Vaishnavi Bhalchandra Motkari	National – 01 International - 03 Workshops & seminars - 04	

Research Activity

- Recognized Research guide (SPPU) for M.Phil and Ph.D. : **03**
- Ph.D. Award students – **07**
- Ph.D. Perusing students – **06**
- Major Research Projects (SERB- CRG) – **Amount of Rs. 2898764/**
- Travel Grants (UGC) – **Amount Rs. 24741/**
- Paper presented at Seminar/conference – **34**
- Patents – **04**
- Books – **04**
- Delivered Talk / Resource Person – **55**
- Organized Workshops on Millets – **13**

Publications – 56 +17 =73

Year	UGC care listed Journal	Peer reviewed journal	Total
2018-19	10	0	10
2019-20	9	0	9
2020-21	9	1	10
2021-22	15	1	16
2022-23	10	1	11
2023-24	07	-	7
2024-25	10	-	10

Involvement of staff members at University work:

Member on BOS of SPPU (2021-2024) and Academic Council of Autonomous College (2024-208)

- Participation in Syllabus framing
- Co-ordinator: Avishkar, Innovation etc.
- CEO of College (2018- till date) and ARC (2018 to till date) Chairman of Assessment Program and Practical examination
- Selection committee member of SPPU

- Helps to conserve floral diversity of Plateaus
- Inculcate importance of diversity among students and people and involvement in Conservation

- Two species propagated and restored successfully
- Five are going to in this season

Discovery of New Plant Species and Genus

New Species

1. *Eriocaulon rayatianum* Chandore, Borude & S.R.Yadav (2019)
2. *Pinda shrirangii* Gosavi & Chandore (2020)
3. *Lepidagathis sabui* Chandore, Borude, Madhav & S.R.Yadav (2020)
4. *Vicoa gokhalei* Gosavi, Madhav, Chandore & S.R.Yadav (2020)
5. *Dipcadi janae-shrirangii* Chandore, Borude, Bhalekar, Madhav & Gosavi (2021)
6. *Crotalaria gajureliana* Gholave, Madhav & Gosavi (2021)
7. *Momordica janarthanamii* Gosavi, Gholave, Madhav & Kambale (2022)
8. *Eriocaulon shrirangii* Chandore, Borude, Bhalekar, Madhav & Gosavi (2023)
9. *Tripogon salunkhei* Gosavi, Madhav & Chandore (May 2024)
10. *Shrirangia concanensis* Gosavi, Madhav & Chandore (2022)

New Genus:

1. *Shrirangia* Gosavi, Madhav & Chandore (Apiaceae)



**Species Honours “Gokhale Education Society” Nashik,
One of the oldest and well known education Institute of
Maharashtra**

Research on Millets

Morphological and nutritional characterization of Finger millet landraces from Maharashtra (120)

Morphological and nutritional characterization of Little millet landraces from Nashik and Palghar district

Antioxidant and Phenolic studies

Publications on Millets -06

Screen nutrient rich landraces

Develop and analyse nutritious recipes of Finger millet

Formulation of Finger millet products



Extension activities

Awareness through Nashik Akashwani – 13 September 2023

Deliver Talk (55) and workshops (13) for the students

Workshops for the farmers (5)

Outcome

Established Startup by the name Dr. Ragi - CEO – Dr. Tahsin Kazi , Ph.D. Student

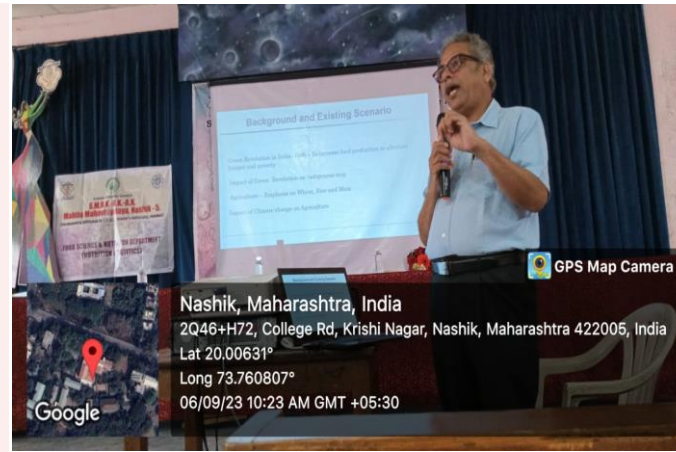
Promote farmers for the cultivation of Millets to enhance the area under cultivation of finger and little millets

Helps in the conservation of Millet landraces or local traditional varieties from North Maharashtra

Supported “Millet mission” of United Nation and Government of India



Millet conservation and promotion



July 13, 2024 Savitribai Phule Pune University, Pune



Farmers Workshop May 21, 2022

Finger millet conservation, Place: Aamlon



Millet Exhibition

Established Startup by the Name: Dr. Ragi CEO – Dr. Tahsin Kazi , Ph.D.
Student



DR. TAH SIN KAZI
(PH.D. STUDENT)

Ragi Health DRINK (Chocolate Flavour)

Why Ragi??
Manage Diabetes
Helps cure malnutrition.
Instigates brain development
Helps in healthy weight loss
Provides refreshing & radiant glow to skin and hair
Antioxidant properties
Natural relaxant

About Me
Journey from Ragi Girl to Dr. Ragi:
Hello, Congratulations for the right choice!!!
I am Dr. Tahsin Kazi and I have done Ph.D. on Ragi. The extensive research has confirmed that Ragi is really our Best Superfood. We have meticulously designed this product for all the age group to enhance overall health.
~Happy Healthy Life!!!~

NUTRITIONAL VALUE
Carbohydrate 00
Protein 00
Fats 00
Energy value 00

INGREDIENTS
Ragi Malt, Barley Malt, Rolled Oats, Cocoa Solids, Amaranth, Milk Powder, Ashwagandha Powder, Shatavari Powder.

SIGNATURE RECIPE / HOW TO PREPARE

In 100 ml of boiling milk add 2-3 tsp of Ragi health drink premix.

Stir well and cook on low flame for 3-5 min.

Add honey / date syrup / jaggery / brown sugar as a sweetener.

Garnish with chocolate chips.

Enjoy warm.

Easy customizable drink according to your liking. For more tasty treats visit our website www.drragi.in

HOW TO STORE ME
Transfer the content in clean air tight container and store in cool and dry place. Use dry spoon.

Manufactured By:
T K Foods
Plot No 29, Khode Nagar, Ashoka Marg,
Nashik-422006, Maharashtra, India.
91 9999999999, hello@drragi.in
drragi.in / tkfoods.in FSSAI Lic. No : 1234567890

Batch No:
MRP:
Mfd Date:
Best before 4 months

DR. RAGI
RESEARCH BASED PRODUCTS

YOUR HEALTH IS ABOUT TO GET BETTER
• 06/08/21 •

Introducing dream products for all the health freaks out there.

Ragi Coffee Drink Premix
Ragi Elaichi Drink Premix
Ragi Chocolate Drink Premix
Ragi Cookies
Ragi Rusk

A BIG Launching OFFER
30% DISCOUNT ON M

Contact us: +91 965 744 97

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Ragi Chocolate Drink Premix
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Ragi Rusk

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DR. RAGI
RESEARCH BASED PRODUCTS

RAGI HEALTH DRINK
Chocolate Flavour

Fascinating Fact
Ragi is filled with antioxidants called flavonoids that is GOOD for your skin and protects it from UV rays.

Healthy, Tasty and Traditional Superfood!!!!

No Added sugar, artificial colours, flavours and preservatives.

Diabetic Friendly!!!

Antioxidant Rich
Reverts skin damage
With Calcium
Iron
Vitamin A
Vitamin E

M.Sc. Plant Biotechnology
(80.80%) - Year -2011,
University Topper (Gold Medal)

B.Sc. Biotechnology
Year -2009 (73%)

❖SET (Life Sciences) and ICAR-NET
(Agricultural Biotechnology) qualified.

Ph.D. – Year -2021,
Savitribai Phule Pune
University, Pune

❖JRF (2015-2017) & SRF (2017-2020): UGC-MANF

: CEO of “ DR.RAGI”

Prestigious Awards

Awards to Faculty:

- ❑ **Best Teacher Award-2022** by Savitribai Phule Pune University, Pune, Maharashtra, India
- ❑ **Kirloskar's Vasundhara Mitra Puraskar – 2021**, Pune, Maharashtra, India
- ❑ **Prof. M. Sabu Award-2022** by Indian Association for Angiosperm Taxonomy, University of Calicut, Kerala, India
- ❑ **Prof. M.K. Mathur, Life Time Achievement Award -2023** by Global AgroBiotech and Pharma Research Foundation, Ahmedabad, Gujarat, India
- ❑ **Vasundhara Mitra Nisargrakshak Purashkar 2024** . Mumbai Tarun Bharat (Maha MTB). (28.12.2024)
- ❑ **Teacher Entrepreneur Award -2025** by Gokhale Education Society, Nashik, Maharashtra, India



MoU and Linkages

Sr.no	moU and Linkages	Activities conducted under moU and Linkages
1.	Krishidoot Herbal Biotech Pvt. Ltd. Ozar,Nashik	Summer training to M.Sc. Students and laboratory facility for Ph.D. students 2019,2021,2022,2023
2.	Arts, Commerce and Science College, Karanjali , Nashik – College from Tribal region of Nashik.	workshops on Millet cultivation, Conservation and Promotion – year 2022, 2023
3.	Arts, Commerce and Science College, Mokhada Nashik – College from Tribal region of Palghar District.	lectures and workshops on Millet cultivation, Conservation and Promotion – Year 2022,2023

Outcome:

- Our students get opportunity to work with industry people and handling of few advance instruments
- Get opportunity to connect with triable students of Mokhada and Karanjali College to understand their traditions and traditional crops such as millets
- Collaboration in research – 09 International Publications

Books

1. *Bhartiy Dvipakalpatil Jasvandichi Olakh*
(Regional language: Marathi).

Publisher: Blue Ink Publishing House
ISBN: 978-81-956739-6-4 (July 2022)

2. "Enumeration of Plant Diversity: At Abasaheb Marathe College campus, Rajapur

Publisher: Book Saga Publications
ISBN: 978-93-95470-88-9 (March 2024)

3. Sedges (Cyperaceae) of Maharashtra

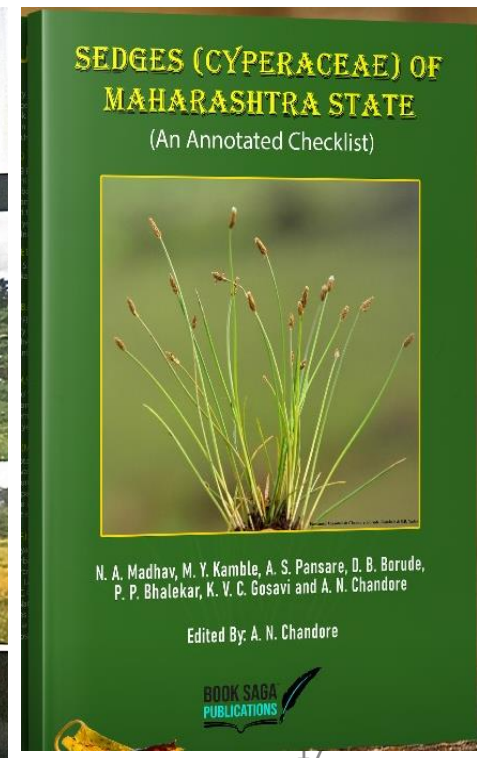
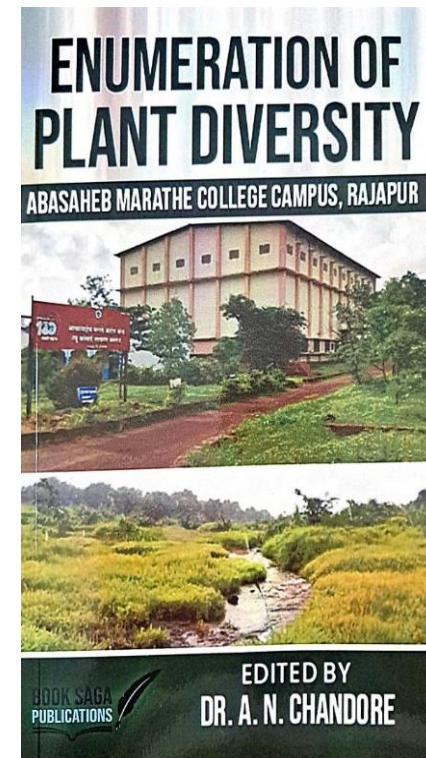
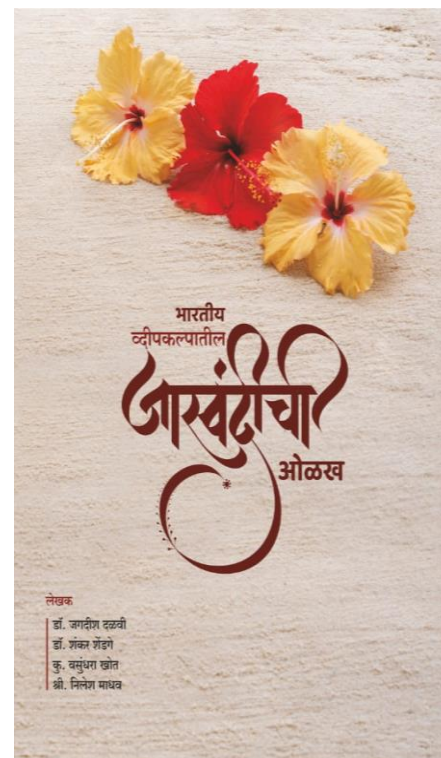
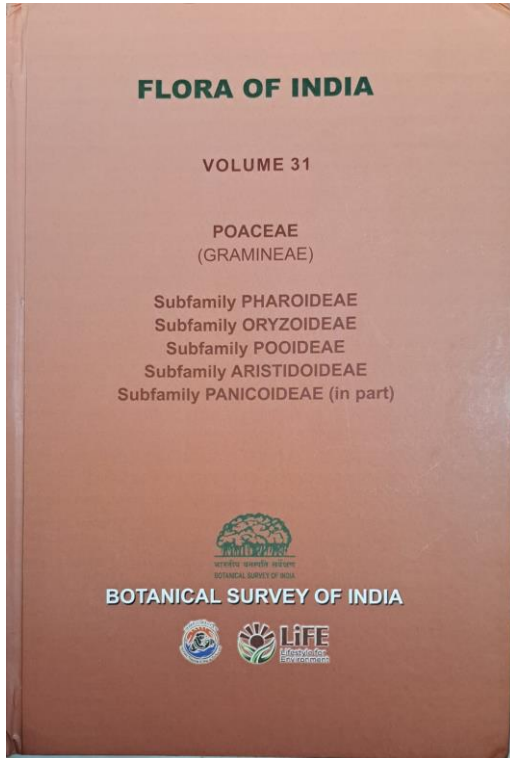
(An Annotated Checklist). Publisher: Book Saga Publication.

ISBN: 978-81-974128-8-2 (2024)

4. Flora of India

and

Millet magazine



Department Activities

Best Activities of the Department

1. **Botanica – Platform for holistic development – Best practice – since 2010**
2. **Biodiversity , awareness movement and Tree plantation – Best Practice –Since 2016**
3. **Plant of the day activity – Since 2018**

Other Activities

Botanical excursions

Academic Workshop and Hands on Training

Aavishkar – Research project competition Career

Rotract – Activities in Collaboration with River Rotary Club, Nashik

Career Counselling

Botanica – Green Festival Since 2008

Platform for Holistic Development



25.01.2022019



Nashik, Maharashtra, India
2036+X4M, Krishi Nagar, Nashik, Maharashtra 422005, India
Lat 20.0050474 / Long 73.7602793
Monday 05 February 2024 14:57:30

Online Botanica
Botanica 2021
Date: February 10,2021

https://youtu.be/AtmvWcMEI_4

Workshops and Training



**Protein Estimation Workshop
(22-04-2022)**



Field Training – Ratangad (Samrad)



Plant of the Day



National workshop: Two days national workshop entitled “Fundamental tools in plant systematics” (March 3,2023)


Career Counselling




Dr. Warkhede, February 26, 2021



Dr. Umesh Kakade February 2, 2021




Gokhale Education Society's
H.P.T. Arts and R.Y.K. Science College
Prin. T.A. Kulkarni, Vidya nagar, Nashik-422005
NAAC Re-Accredited: 'A' Grade
Department of Botany
Organized online lecture on



Career Opportunities in Life Sciences

Resource Person



Miss. Sayali Bhor

- All Life Science Students Invited to attend the lecture
- Miss Sayali has done Masters in Wine, Brewing and Alcohol Technology, India, Savitribai Phule Pune University Jan, 2020 - Jan, 2022.
- And currently working in International Master in Science of Wine and Vine Vinifera Euro master Montpellier South of France | 2022-2024
- Date of lecture: 16th March, 2023
- Time of lecture: 1.45 pm
- on Google meet
- Link of lecture: <https://meet.google.com/gmu-ychu-dfo>
- Or dial: (US) +1 314-474-3422 PIN: 392 101 513#
- Link of attendance: <https://forms.gle/wst3JXSY3uud9BL66>



Nilima Jorwar,, March 11, 2022



Dr. Savita Borse, August 12, 2022

Botanical Excursion



Vegetation study of Old Jawhar Valley



**Deorai visit, Kakatwadi, Palghar Dist
March 18, 2023**



**Deorai visit, Kakatwadi, Palghar Dist
Date_ November 11, 2022**



Ratanwadi, January 22, 2020



Sandhan Valley, December 22, 2021

Mushroom cultivation – Employment opportunities (2019,2023)



Mushroom Recipes

Demonstration of Horticultural Practices

Activities



Parent and Alumni Meet



Awareness campaign of campus flora



Restoration of Endemic Plant species

Tree plantation program – 2029 and 2022

Goal Ahead

1. Enrichment of Botanical Garden
2. Certificate courses on mushroom cultivation, nursery management, Plant tissue culture and Millets
3. Establishment of Herbarium
4. Upgradation/procurement of advanced instruments
5. Establishment of seed bank
6. Counseling cell
7. Linkages with industries and Institutes



Thank You

