

Department of Botany

Report 2022-2023

Department of Botany organized various activities to motivate the students for their overall development.

Activities:

- ❖ Student Induction Program (SIP) was organized from 24th to 27th August 2022 in the college to cope up with new environment of the campus. Head of Department introduce about faculty members, achievements of the dept. to the students of B.Sc Sem- I and inculcate the culture of the dept. as well as institution in them.

- ❖ World Nature Conservation Day was celebrated on 3rd September, 2023 by Department of Botany. On this Occasion, department organized Competition to motivate the students to express their thoughts and contribution towards nature & its conservation about plants. The theme of the competition was “Green Festive Celebration”. Dr. R.H. Mahakhode was the Convener and Dr. R.P.Sonwalkar was Co-convener of the competition. Prof. R.N.Deshmukh, Head and Prof. P.S.Tiwari guided the students about the competition. Total 48 students were actively participated and exhibits their skill and learn about the conservation of nature. Seven students got prizes in Green Zodiac Bandhan, Vaigyaanik Green Rakhi and Green Ganesh.

- ❖ As a part of B.Sc Curriculum, one day trip was organized to Bor Dam District Wardha by department of Botany on 8th October, 2022 for Sem. III & Vth botany students. The major objective was to familiarize the students with the wild and cultivated flora and ecology of the region. Total 4 teaching staff, 3 non teaching staff and 87 students was present.

- ❖ Botanical Society under Science Association was inaugurated on 17th October 2023 at the hands of Prof. Prafulla M. Sable, Director of Board of Examination and Evaluation, RTMNU, Nagpur and also felicitated the meritorious students on this occasion. Such activities undertaken by Botanical Society to inculcate team work and leadership qualities in students.

- ❖ Department of Botany, organized one day workshop on “Nursery Techniques” on 21st November 2022, as a part of Skill based curriculum, RTMNU Nagpur. Hon’ble Principal Prof M.P.Dhore was present as chairman, Prof. Anjali Phaley, L.A.D. college Nagpur as guest speaker and expert, Prof. R.N.Deshmukh (HOD), Prof P.S.Tiwari, Dr.R.H.Mahakhode, Dr.R.P.Sonwalkar Convener were present. During the workshop madam imparted the students with the critical knowledge on propagation and nursery management for fruit, vegetable, tuber crops, flowering and ornamental crops. She briefed about nursery techniques and its management through PowerPoint presentation which was followed by hands-on training of various methods like Budding, Grafting, Stem Cutting, Air layering etc also gives the training on Bonsai preparation. Office bearers of botanical society played important role in organizing the workshop in systematic manner. About 130 students and staff members were attended the workshop.

- ❖ Guest lecture were conducted by the department on Mushroom Cultivation under Skill Based Course on 18th November 2022, 15th March 2023 and 16th March 2023 by Mr. Abhimanyu Dongarwar Expert, SKY Mushroom.
- ❖ Department of Botany carried out project on “Hydroponics” for the B.Sc. students during the session 2022-23. It is the technique of growing plants using a water-based nutrient solution rather than soil. Students learnt the growing method of more plant in less space compared to traditional outside garden.
- ❖ Department carried out four days training program on Plant Tissue Culture technique under Self-financed Certificate Course for Sem. VI students demonstrated by Prof. P.S. Tiwari on 1-4 March, 2023 to develop inclination towards research and better understanding of laboratory techniques.
- ❖ Students of Semester VI were visited to Maharashtra State Seed Biotech Lab, Nagpur (MAHABEEJ) on 9th March 2023, educational tour to sophisticated scientific labs gives new vision and also helps to motivate interest towards basic sciences.
- ❖ Department of Botany signed MOU with Department of Cosmetic Technology, Nikalas Mahila Mahavidyalaya, Nagpur on 10th March 2023.
- ❖ Students of Sem. VI from Botany dept. actively participated in the workshop on “Extraction of Bioactive Compounds from plants” as a part of syllabus conducted by Nikalas Mahila Mahavidyalaya, Nagpur on 14th March 2023.
- ❖ Mr. Abhimanyu Rao Dongarwar, Expert, Sky Mushrooms, Nagpur demonstrating techniques in two days workshop on ‘Mushroom Cultivation‘ for the registered students under the Skill Based Program on 23-24, March 2023.
- ❖ Green Audit regularly conducted by the Department.

Skill Based Course on Mushroom Cultivation

- Skill Based Course on Mushroom Cultivation runs by the department since 2019-20. Under this course, the department organized various Guest lectures on the topics Introduction & Identification of Edible Mushrooms; Sterilization Techniques, preparation of substrate/compost & Nutritional value of Mushrooms; Inoculation, Harvesting, Storage & Marketing of Edible Mushroom.
- Two days workshop organized by the department on “Mushroom Cultivation Technique” during 23-24 March 2023 for the registered students under skill based course.

Non-teaching Award:

- ❖ Mr. Shrihari Wasudeorao Dailkar, Laboratory Attendant, Department of Botany received “Best service Award” by the College for the session 2021-22.

Research Activities:

- ❖ Dr. R.H. Mahakhode published one Research paper in National Journal.
- ❖ Dr. R.P. Sonwalkar published one Research paper in UGC-Care Journal.
- ❖ Faculty members also attended and presented research paper in various National and International conferences and workshops.

Chapter in Edited Books:

- ❖ Dr. R.H. Mahakhode published chapter entitle “Strategies of nanotechnology as a defense system in plants” in the Book “Biogenic Sustainable Nanotechnology: Trends and Progress”, Elsevier Publication, June 2022 pp. 227-248. eBook ISBN: 9780323885362.

Invited Talk as resource person:

- ❖ Prof.P.S.Tiwari invited as Penalist in one day symposium on “Women in Science and Entrepreneurship" (WISE 2023) organized by Indian Women Scientists' Association, Nagpur Branch on 2nd April 2023 at NEERI, Nagpur.
- ❖ Prof. R.N. Deshmukh was Chairman of the session in Farmer’s Science Congress, ISCA 2023 on 5th Jan. 2023.

Merit Position:

- ❖ Ku. Vinita Rajendra Tijare & Ku. Vrunda Vidyadhar Borkar secured 5th & 8th position in merit list declared by RTM Nagpur University, Nagpur Summer 2022.

Student Achievements:

- ❖ Department of Botany organized competition “**Green Festive Celebration**” on the occasion of ‘World Nature Conservation Day ‘on 3rd September 2023. The winners of the exhibition were Mr. Prash Waghmare and Ku. Payal Maraskolhe from Vaigyaanik Green Rakhi; Ku. Chaitali Patil and Ku. Sejal Lende from Green Ganesha; Ku. Madhavi Mohod, Ku. Gauri Nasare, Ku. Khushi Mishra and Ku. Bhagyashree Shahu from Green Zodiac Bandhan.
- ❖ Ku. Ketki Sonkusare of Sem. VI won third prize in science exhibition ‘**VidyanVari**’ organized on the occasion of 125th birth anniversary celebration of Dr. Punjabrao alias Bhausaheb Deshmukh and National Science Day by Shivaji Education Society Amravati at Amravati on 27th & 28th Feb. 2023. The title of the model was “Phytorid Technology”.
- ❖ Mr. Akshay Bhatkulkar (Sem.V) secured 1st position in Dr. Ashok Shekdar Memorial Intercollegiate Power Point Competition on the topic “Gene Editing & its Uses” organized by Dharampeth M. P. Deo Memorial Science College, Nagpur on 1st February 2023.

Dr. R N Deshmukh
Professor and Head

Department of Botany

Report 2022-2023



Department of Botany organized Competition on 'Green Festive Celebration' under World Nature Conservation Day on 3rd September, 2023 to motivate the students to express their thoughts and contribution towards nature & its conservation about plants.



Students of B.Sc. II & III year visited to Bor Dam, Bor Forest, Dist. Wardha on 8th Oct. 2022.



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Department of Botany carried out project on “Hydroponics” for the B.Sc. students during the session 2022-23



Four days training program on Plant Tissue culture technique organized by botany department from 1st March to 4th March 2023.



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Students from Botany dept. participated in the workshop on Extraction of Bioactive Compounds from plants conducted by Nikalas Mahila Mahavidyalaya, Nagpur on 14th March 2023.



Department of Botany conducted workshop on ‘Mushroom Cultivation Technique’ for the registered students under the Skill Based Course during 23 & 24 March 2023.



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Distribution of certificates & mementos to the winners of Green Festive Celebration on the occasion of Republic Day on 26th Jan. 2023.



Ku. Ketki Sonkusare from Botany department bagged 3rd prize in VidyanVari Science Exhibition held at Shri Shivaji Science College, Amravati on 27th & 28th Feb. 2023.



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Dr. R.H. Mahakhode & Students of Botany department actively participated in NEERI conference on 2nd April 2023.



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