

Department of Botany

Report 2023-2024

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

Activities:

- World Nature Conservation Day was celebrated on 5th June 2023 by Department of Botany. On this Occasion, department organized “**Intercollegiate-E-Quiz Competition** on the theme “**Beat plastic pollution**”. Competition to motivate the students to express their thoughts and contribution towards nature & its conservation about plants. The theme of the competition was “**Beat plastic pollution**”. Dr. Sharayu S. Deshmukh was the Convener and Dr. R.P. Sonwalkar was Co-convener of the competition. Prof. R.N. Deshmukh, Head and Prof. P.S. Tiwari, Dr. R.H. Mahakhode guided the students about the e-quiz competition. Total 158 students were actively participated and exhibits their skill and learn about the conservation of nature. All the participants were rewarded with prizes & certificates.
- Student Induction Program (SIP) was organized from 22th to 26th August 2023 in the college to cope up with new environment of the campus. Head of Department introduce the faculty members, achievements of the dept. to the students of B.Sc Semester- I was to aware about the culture of the dept. as well as institution in them.
- On the occasion “**Raksha-Bandhan**”, Department of Botany organized “**Green Rakhi Competition**” on dated 26th August 2023, on the combined theme “Food security, nutrition & sustainable agriculture, people & planet” in the presence of Hon’ble Principal Prof. M.P. Dhore. Dr. Sharayu S. Deshmukh Convener of this competition conducted the program. Co-convener, Dr. Rupali H. Mahakhode and other faculty members cooperated to make this competition grand success. In our environment different types of millets are found like Sorghum Millet (Jowar) Proso Millet (Chena), Pearl Millet (Bajra) Foxtail Millet (Kakum / Kangni) Finger Millet (Ragi) viz. & its important to our health Millet contains fiber, which contributes to digestive health and helps to regulate bowel movements. Millet also has probiotics, which stimulate the growth of probiotics within the micro biome. All the participants were rewarded with prizes & certificates. Consolation prizes were given to Avantika Srikant Mule and Soumya Yadav and third prize given to Janhvi Burde, second prize given to Rasika Patil and first prize given to Devendra Giri by the Principal. The Total 68 students were participated in this competition. Hon’ble Principal

Prof..M.P.Dhore & Prof. R.N. Deshmukh, Head of Department appreciated & given noteworthy remarks.

- Botanical Society under Science Association was inaugurated on 13th October 2023 at the hands of Prof. Khobragade, Director Department of Forensic Science, Institute of Science, Nagpur and also felicitated the meritorious students on this occasion. Type of helps activities to inculcate team work and leadership qualities among the students.
- As a part of B.Sc Curriculum, one day trip was organized to Navegav khairi (Pench Forest) District Nagpur by department of Botany on 16th October, 2023 for Sem. I, III & Vth botany students. The major objective was to familiarize the students with the wild and cultivated flora and ecology of the region. Total 5 teaching staff, 2 non teaching staff and 64 students was present.
- Department of Botany in association with department of Microbiology carried out four days training program on Plant Tissue Culture technique under Self-financed Certificate Course for Sem. VI (Botany) & M.Sc-sem -2 (Microbiology) students demonstrated by Prof. P.S. Tiwari on 3-6 February 2024 to develop inclination towards research and better understanding of laboratory techniques.
- Students of Semester VI visited to Tropical Forest Research Institute Jabalpur on 14th Feb 2024. Educational tour to sophisticated scientific labs gives new vision and also encourages students to work for basic sciences with new technology.
- Department of Botany carried out project on “Hydroponics” under the guidance of Prof.R. N. Deshmukh for the B.Sc. students during the session 2023-24. 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.
- Dr.Lanjewar,Dr.Lonare & students of Swargiya Dadasaheb **Kalmegh** Smruti Dental College & Hospital; Wanadongari - Waddhamna Road, Hingna, Dist Nagpur visited “Hydroponics” project carried out by Department of Botany under the guidance of Prof.R. N. Deshmukh head department of botany on 28\12\ 2023. 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.
- Staff & students Nikalas Mahila Mahavidyalaya,Nagpur, visited “Hydroponics” project carried out by Department of Botany under the guidance of Prof.R. N. Deshmukh head, department of botany on 13th March 2024. 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 of Botany, organized one day workshop on “**Plant Propagation Techniques**” on 13th March 2024, 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.S.S.Deshmukh, Convener Dr.R.P.Sonwalkar 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. . About 80 students and staff members were attended the workshop.
- Guest lecture were conducted by the department on Mushroom Cultivation under department of Lifelong learning & extension on 22nd march 2024, & 26th and 27th March 2024 on topic “Introduction of Mushroom Spawning of Mushroom Cultivation Mrs.Priya Anilkumar Bavaskar, Director Oregano Mushroom Nagpur was presented the work on “Mushroom Cultivation”.
- Registered students of skill base course on mushroom cultivation under the department of life long learning and extension RTMNU Nagpur visited to Oregano mushroom Nagpur on 6th April 2024

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.
- Four days workshop organized by the department on “Hands on training on Oyster Mushroom Cultivation Technique” during 27-28 March & 1-2 April 2024 for the registered students under skill based course.

Teaching Award:

- Dr.Punita S.Tiwari, Department of Botany received “Best Researcher Award” by the College for the session 2023-24.
- Dr.Mrs. Sharayu S. Deshmukh Department of Botany received “Best Presentation Award” in International conference Nabira College, Katol Dist.Nagpur.

Research Activities:

- Prof.R.N. Deshmukh published one Patent(2024)
- Dr. P.S. Tiwari published one Patent(2024)
- Dr.R.P.Sonwalkar published one Patent (2024)
- Dr. P.S. Tiwari published one Research paper in international Journal index in Scopus
- Dr.R.P.Sonwalkar published one book chapter Publication, Cryen Publication,
- Dr. Mrs.S.S.Deshmukh published for Research paper in International UGC-Care Journal.
- Dr. Mrs.S.S.Deshmukh published one book chapter ,Jyotikiran Publication Pune
- Dr. Mrs.S.S.Deshmukh published four Research paper in UGC care Journal index
- Faculty members also attended and presented research paper in various National and International conferences and workshops.

Invited Talk as resource person:

- Prof. R.N. Deshmukh chaired the session in ISCA-2023 in Farmer's Science congress. On 5th January 2023.
- Prof. R.N. Deshmukh Presented project work on "Hydroponics" at Vena agriculture & Consultant Pvt. Ltd, Nagpur on 10/03/2024
- Prof. P. S. Tiwari invited as Panelist 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.
- Dr. R. H. Mahakhode as Guests speaker on Topic Mushroom cultivation in kamala Nehru College, Nagpur.

Merit Position:

- Ku. Tanvi Deshmukh B.Sc.-I semester II is Topper of this session

Student Achievements:

- Department of Botany organized "**Green Rakhi Competition** on dated 26th August 2023 on the occasion of "**Raksha-Bandhan** .The winners of the exhibition & were given Consolation prizes to Avantika Srikant Mule and SoumyaYadav and third prize given to Janhvi Burde, second prize given to Rasika Patil and first prize given to Devendra Giri by the Principal sir.

Department of Botany

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SCIENCE COLLEGE
Congress Nagar, Nagpur 440012
Accredited by NAAC as A+ Grade with CGPA of 3.51
Organizes
DEPARTMENT OF BOTANY
Intercollegiate-E-Competition
on THE OCCASION of
World Environment Day
THEME
Beat Plastic Pollution

World Environment Day celebration week .Theme -Beat Plastic Pollution





Department of Botany organized Green Rakti Competition 26 /08/2023



Students of B.Sc. I & II year visited to Ghogra Mahadev, Dist. Nagpur on 16th October 2023.



Botanical Society under Science Association was inaugurated on 13th October 2023



Department of Botany carried out project on “Hydroponics” under the guidance of Prof.R. N. Deshmukh 2023-24



Dr.Lanjewar,Dr.Lonare & students of Swargiya Dadasaheb Kalmegh Smruti Dental College & Hospital; Wanadongari - Waddhamna Road, Hingna, Dist Nagpur visited “Hydroponics” Project 28th December2023



Department of Botany in association with department of Microbiology carried out four days training program on Plant Tissue Culture technique 3-6 February 2024



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Department of Botany, organized one day workshop on “Plant Propagation Techniques” on 13th March 2024-Resource person Prof. Anjali Phaley, L.A.D. college Nagpur





Staff & students Nikalas Mahila Mahavidyalaya, Nagpur, visited “Hydroponics” Project, 13th March 2024



Four days workshop organized by the department on “Hands on training on Oyster Mushroom Cultivation Technique” during 27-28 March & 1-2 April 2024



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MOU with Swachh Association In The Presence Of Honreble Principal Prof.M.P.Dhore .



MOU with Mrs.Priya Anilkumar Bavaskar, Director Oregano Mushroom In The Presence Of Honreble Principal Prof.M.P.Dhore .

Invited Talk as Resource Person:



Prof.R.N. Deshmukh chaired the session in ISCA-2023 in Farmer's Science Congress



Latitude: 21.105801
 Longitude: 79.1125
 Elevation: 342.22±2 m
 Accuracy: 42.5 m
 Time: 10-03-2024 12:43
 Note: hydroponics

Prof.R.N. Deshmukh Presented project work on “Hydroponics” at Vena agriculture & Consultant Pvt.Ltd, Nagpur on10\03\2024



Dr.R.H.Mahakhode as Guests speaker on Topic Mushroom cultivation in Kamala Nehru college, Sakkardhra, Nagpu