



SRI SATHYA SAI COLLEGE FOR WOMEN, BHOPAL

DEPARTMENT ACTIVITIES

SESSION- 2023-24



DEPARTMENT OF BOTANY & MICROBIOLOGY

RESEARCH ACTIVITIES BY FACULTY/ RESEARCH SCHOLAR/ STUDENTS

- **Dr. Renu Mishra and Ms. Supriya Gupta** published paper in Highbrow Journal on topic “Phytochemical analysis of *Catheranthus roseus* leaves crude extract” in October 2023.
- **Supriya Gupta and Dr. Renu Mishra** published Paper in Integrated Publisher on topic Green synthesis of Silver nanoparticles of *Withania somnifera* L. Dunal roots and its applications: A Review article on Phyto- Nanobiotechnology in January 2024.
- **Sheetal Sahare and Dr. Renu Mishra** published Paper in Integrated Publisher on topic Efficiency of metal nanoparticles in mitigation of *Withania somnifera* leaf spot diseases: A review on Biotechnology approach in January 2024.
- **Dr. Shikha Mandloi** published Paper in Integrated Publisher on topic Post acute sequel of COVID 19 (PASC): Recapitulation in January 2024.
- **Dr. Nishi Yadav** published Paper in Integrated Publisher on topic Immunological aspects of SARS Cov- 2 Causing COVID 19 Pandemic in January 2024.
- **Dr. Shikha Mandloi, Dr. Nishi Yadav and Student of B.Sc. Final Year Aastha Priya and Anjani Dubey** published Paper in Integrated Publisher on topic Immunotherapeutic importance of *Withania somnifera* and *Ocimum tenuiflorum* against COVID 19 in January 2024.
- **Dr. Renu Mishra and Ms. Supriya Gupta and Jagriti rawat**, Research scholar published paper in Highbrow Journal on topic Comparative study of Phytochemical content of Ethanolic crude extract and Soxhlet extract of flowers of *Tagetes erecta* L. in April 2024
- **Dr. Renu Mishra and Ms. Sheetal Sahare** Published paper in Highbrow Journal on topic Physicochemical analysis of wastewater from textile Industry in April 2024
- **Dr. Shikha Mandloi and Ms. Beenu Solanki** published paper in Highbrow Journal on topic Dental Biofilm: A Gateway to Oral diseases in April 2024

AWARDS RECEIVED BY THE FACULTY

- Dr. Renu Mishra received Leading Educationist of India Award for Educational Excellence by FRIENDSHIP FORUM (Regd.) on Sept. 2023



- Dr. Renu Mishra received Bharat excellence Award for her outstanding achievements & distinguished services to the nation in the field of educational welfare of highest repute for the year 2023 by FRIENDSHIP FORUM (Regd.) on Sept. 2023

Ph.D. Awarded/ Registered

- Mrs. Shadma Siddiqui awarded Ph. D. Degree under the supervision of **Dr. Renu Mishra** in May 2023.
- Mrs. Varsha Vairale awarded Ph. D. Degree under the supervision of **Dr. Renu Mishra** in July 2023.
- Four students registered for Ph.D. under the guidance of **Dr. Renu Mishra** in Botany and Microbiology in 2023.
- Two students registered for Ph.D. under the guidance of **Dr. Shikha Mandloi** in Microbiology in 2023.
- **Dr. Nishi Yadav** registered as a Guide in Microbiology in Barkatullah University.

WORKSHOP



Workshop on QR Code making for Plants and Instrument

- On 22 December 2023, Department organised Workshop on QR Code making for plant and Instrumentation tagging



Workshop on preparation of Herbal products



- On 20 March 2024, One day workshop was organized by Dr. Renu Mishra and Ms. Supriya Gupta, Botany and Microbiology Department on preparation of medicinal products by plants. In this workshop students learn preparation of amla candy, chywanprash, Trifla churn, Aloe Vera gel, Neem ointment, Arjunarista, Onion poultice etc.

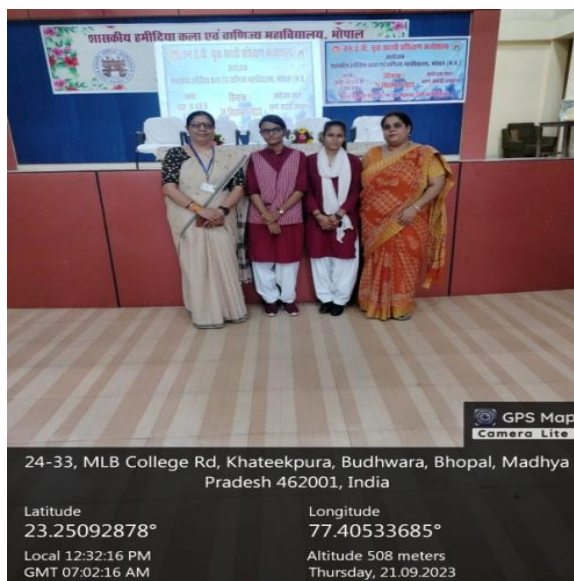
RESOURCE PERSON



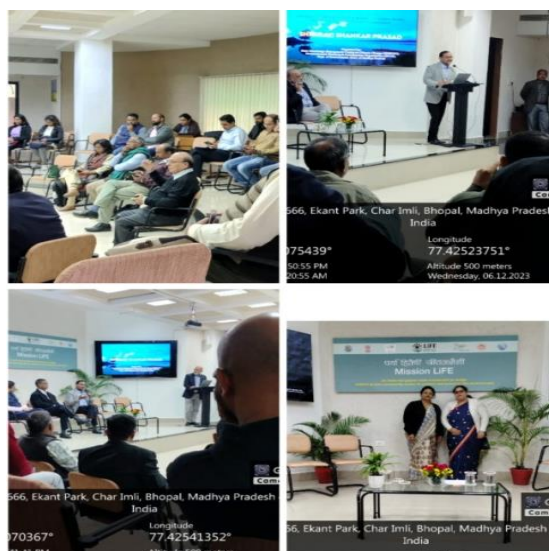
- On 26- 28 July 2023, Dr. Renu Mishra was Resource Person in the Workshop on “Curriculum Enrichment under NEP 2020” organized by Sadhu Vaswani College, Bhopal

WORKSHOP ATTENDED

- On 26 August 2023, Dr. Nishi Yadav participated in One day National webinar on National Education Policy 2020 and Role in Higher Education organised by Government College, Shahganj sponsored by Department of Higher Education, Govt. of MP
- On 28 August 2023, Faculties Participated in National Webinar on Biodiversity Conservation: Challenges and Mitigation Measures organised by Sarojini Naidu Government Girls PG College, Bhopal sponsored by Department of Higher Education, Govt. of MP



- On 21 Sept. 2023, Dr. Nishi Yadav attended NEP Yuva sarthi training workshop at Govt. Hamidia College



Attended Talk on Climate Change at EPCO

- On 6 December 2023, Dr. Shikha Mandloi, Dr. Nishi Yadav participated in talk on climate change by Shri Ravi Shankar Prasad organised by EPCO

FIELD VISIT/ INDUSTRIAL VISIT/EDUCATIONAL TRIP

- On 9 August 2023, Dr. Shikha Mandloi and Dr. Nishi Yadav taken Microbiology student to Biomedical waste pit and safe disposal of laboratory waste
- On 10 August 2023, Dr. Renu Mishra & Ms. Supriya Gupta alongwith B.Sc. final year student were taken for field visit to college campus and identification of ethno medicinal plant was done



- On 16 October 2023, Educational visit was organised to Pt. Khushilal Ayurvedic College, Unani College, Homeopathy College with Dr. Renu Mishra, Dr. Nishi Yadav, Ms. Supriya Gupta



- On 28th November 2023, Field visit of BSc III year Botany students to college campus



- On 28th November 2023, Industrial visit of Microbiology I and III year students to MP State agro Biofertilizer production plant with Dr. Shikha Mandloi & Dr. Nishi Yadav



On 27 December 2023, Educational trip of Biology student to Madhya Pradesh Tribal Museum and Regional Tribal Museum by all faculty Member

MOU

- On July 2023, College signed MOU with Asar Green Kabadi Pvt. Ltd.
- On 2024, Dept. of Botany & Microbiology signed MOU With IEHE, Bhopal.

FIELD PROJECT- INHOUSE

- B. Sc. Final Year- Comparative Study of Phytochemical Analysis of Crude and Methanolic Extract of Leaves of *Catharanthus roseus* Linn.



Inhouse Field project

- B. Sc. Final year- Qualitative Analysis of Phytoconstituents of the flowers of *Tagetes erecta*
- B. Sc. Second Year- Qualitative analysis of Phytochemical of *Hibiscus rosa sinensis*
- B. Sc. First year- Preparation of Vermicompost



- B. Sc. Final year- Phytochemical investigation of Ayurvedic medicine used for the treatment of Acute Myeloid Leukemia (AML)

FIELD PROJECT- SNGGPG COLLEGE

For UG Students-

- 28 students of B.Sc. III year were guided for field project on the topic comparative study of antibacterial potential of medicinal plant *Coleus aromaticus* Benth. and *Hyptis suaveolens* L. against *S. aureus* and *E. Coli*



Outhouse Field project of the SNGGPG College, Bhopal

For PG Students-



- 3 Students were guided for Job oriented Field Project (JOPW) on the topic entitled “Comparative study of the phytochemical content of Ethanolic Crude and Soxhlet extract of flowers of *Tagetes erecta* Linn.”

EXTRA CLASSES FOR SLOW LEARNERS



Remedial classes were organised for the slow learners. Students also help each other for the better understanding and learning.

OTHER ACTIVITIES

- On 15 July 2023, Environment society organized tree plantation activity. In this program tree plantation was done with MS. Meeta Wadhwa Setu, Head the bridge founder



Tree Plantation Activity



Green audit in the College campus



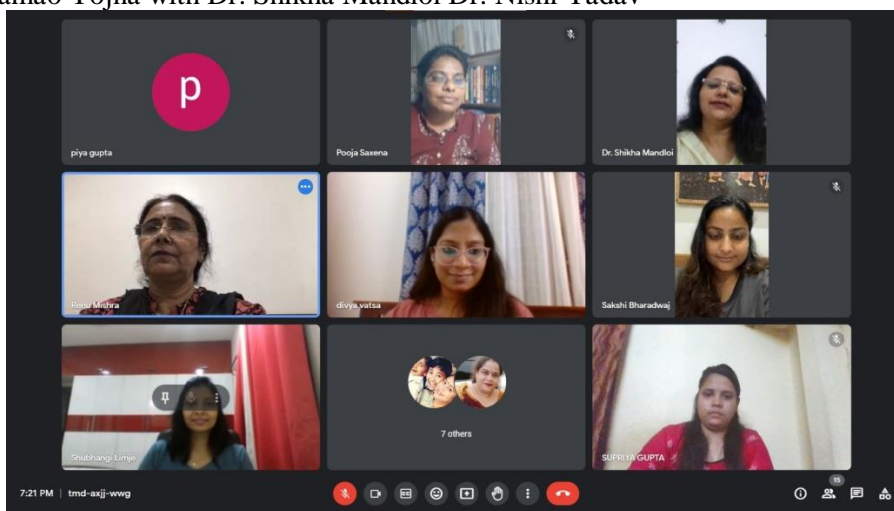
- On 25 July 2023, Dr. Nishi Yadav Incharge, Environment society alongwith Bird Conservation Society, Bhopal organized Rangoli competition on the topic “Conservation of Tigers”.



On 14 August 2023, Dramatic society organized Fancy dress competition on the occasion of Independence day



- On 22 August 2023, Student were taken to Govt. Mahatma Gandhi School for inauguration of Sikho Kamao Yojna with Dr. Shikha Mandloi Dr. Nishi Yadav



- On 10 Sept. 2023, an Online Alumini meet was organized to plan activities and discuss about the placements and achievements of College alumni

- On 20 Sept. 2023, Tree Plantation Activity was organized under the campaign plant tree save oxygen in association with campaign state coordinator Shri R D Dilare



- On 29th November 2023, Parents teacher meet was organised.
- On 20 December 2023, External and Internal Academic audit of Department was organised with Dr. Renu Mishra, Dr. Shikha Mandloi, Dr. Nishi Yadav, Ms. Supriya Gupta

BOARD OF STUDIES



- On 2 Sept. 2023, Board of studies was organized in the department for Botany, Microbiology and EVS.
- On 29 January 2024, Dr. Renu Mishra attended Board of Studies meeting in Barkatullah University, Bhopal.

ENTREPRENEURSHIP & SKILL DEVELOPMENT ACTIVITIES



- Students of Vocational course and certificate course of Medicinal plants prepared Amla, Chyawanprash, Aloe vera gel etc.



- Students of B. Sc. First year prepared vermicompost in the college and marketed in the college campus



- Students of B. Sc. Second year (Minor subject) learned about the preparation of food colour, herbal decoction, jams & jelly, pickles, juice, herbal colour, hair oil, rose water, perfume oil, mint oil etc.



- Students of vocational and certificate course learned about the cultivation, Maintenance and harvesting of Medicinal Plants
- Students of Microbiology learnt isolation and identification of Rhizobium and PSB in the lab which is used for Bio fertilizer production.



Disposal of Microbiology laboratory Waste