

SRI SATHYA SAI COLLEGE FOR WOMEN BHOPAL

Departmental activities of the Botany & Microbiology

Inter Collegiate & Intra Collegiate Competitions / events organised by the Department

- On the occasion of International Microorganism Day 17th September 2024 the student unit of Microbiology Society of Sri Sathya Sai College for Women, Bhopal “Microilluminati” organized inter collegiate poster competition. The judgement of all the posters submitted by students was done on 8th October 2024. The judges were Dr Sunil Kumar Snehi, Assistant Professor Microbiology, Department of Microbiology, UTD Bhopal and Dr Kirti Jain, Professor of Botany, Govt. Benazir College Bhopal. The students won the prizes in the competitions. First prize goes to Ku. Vanshika Kulshreshth, Sri Sathya Sai College for Women, Bhopal, second prize goes to Ku. Labhanshi Srivastava, Career college, Bhopal, third prize goes to Ku. Krishna Vishwakarma, Sri Sathya Sai College for Women, Bhopal & Consolation prize goes to Ku. Visakha Thakur and Ku. Palak Dwivedi.
- On 11th November 2024 Microbiology society organised Rangoli Competition on theme “Structure of Microorganisms”. Students draw structures of Viruses, Bacterias, Bacteriophages and flowers. Ku. Krishna Vishwakarma, Anuska Gupta, Manjeeta Gupta of B.Sc. I Year won first, second and third prize respectively. Muskan & Kusum Sahu were given the consolation prizes.
- With collaboration of Environment society, Department organised Best out of Wastes competition on 29th August 2024. All the articles were displayed in the department as exhibition on 19th October 2024. Dr. Renu Mishra & Dr. Neena Arora judged the exhibition and announced the prizes..
- On 14th November 2024 students of Microbiology Society showcased the stall on fermented foods by microorganisms in the name ‘JAIVADELIGHT’. They prepared various food products like “Sheekhand, Dhokla & Idli” explaining the role of microorganisms in giving flavour to the food. Members of the NAAC Peer team appreciate the products & creative ideas to understand the importance of microorganisms in food.

- On 21st September 2024, Life science faculty offered fresher party to UG / PG Students. Ku. Vanshika was awarded Miss Fresher.

Field Visit / Educational Trip

- On 3rd October 2024 Educational tour to Regional Science Centre was organised for Students. 20 Students visited Science Galleries: Physics, Chemistry, Biology, and Mathematics, Planetarium, 3D Theatre, Science Park, Exhibition Hall, Amphitheatre along with Dr. Nishi Yadav Associate professor Microbiology and learn various aspects of Science. In Science centre students enjoyed various activities.

Workshops organized

- On 18th October 2024 Workshop on QR code was organised under Enterprenurship & Skill Development for the faculties & Supporting staff of the college. Ms. Supriya Gupta was the resource person and students of Botany submitted the QR code of the plants and students of Microbiology submitted the QR code of the Instruments.
- On 09.11.24 One day workshop on terrarium making was organised by Microbiology Society and Department for students and faculty members. They learned about making of Terrarium. Dr. Shikha Mandloi gave the demonstration. Dr. Nishi Yadav, Ms. Supriya Gupta, Rhea Pillai, Manjeeta prepared various terrarium & demonstration on miniatures was given by Dr. Renu Mishra.
- On 28.10.2024 Workshop was organised on Herbal products like Amla Candy, Triphla, Arishta etc. under vocational course.
On 17.01.25 and 18.01.25 Two days Workshop was organised under the Employment oriented program on Jam, Jelly, Pickels & Juices prepared in collaboration with Home Science Department. Students prepared Jam from Apple, Jelly from Guava & Pickels from Amla & Lemon.
- On 12.02.25 Workshop on Herbal colours, rose water was organised by the botany Department. Students prepared herbal colour from beet root, spinach, rose petal, Marigold petals and from turmeric. These products were also displaced and sold in the College Carnival under the stall Saksham.
- Students of B. Sc. First year prepared Vermicompost in the college and marketed in the college campus and International Van Mela.

Van Mela 17th-23th December 2023

- Students of Vocational course Medicinal plants prepared and sold organic products like vermicompost, Amla candy etc. in the International herbal mela organised from 17th – 23th December 2024.

Award received by the faculty

- Dr. Renu Mishra awarded as world Dynamic Achievers of Excellence by Friendship forum. She was appointed as judge in the exhibition organized by the different schools of Bhopal in Balrang Mahotsav on 20.12.2024.

Research activities by Faculty/ Research Scholar and Students

- Ms. Supriya Gupta & Dr. Renu Mishra published chapter in a book on Green synthesis of silver nanoparticles of *Withania somnifera* L. Dunal roots and its applications: A Review article on Phyto- nanobiotechnology published by Integrated publishers ISBN No. 978-93-5834-693-0
- Dr. Renu Mishra & Ms. Sheetal Sahare published chapter in a book on paper Efficacy of metal nanoparticles in mitigation of *Withania somnifera* leaf sport diseases : A review on Biotechnology Approach published by Integrated publishers ISBN No. 978-93-5834-693-0
- Jagriti Rawat, Dr. Renu Mishra and Ms. Supriya gupta (2024) published paper entitled comparative study of Phytochemical content of ethanolic crude extract and Soxhlet extract of flowers of *Tagetes erecta* L. *Highbrow Bi-annual interdisciplinary journal of research* Vol 10 Issue I ISSN No. 2350-1154
- Students of B.Sc. III Year Major Botany Miss. Sneha Kumari Sao, Dimple Khairwar, Dr. Renu Mishra Ms. Supriya gupta (2023) published paper in Phytochemical analysis of *Catharanthus roseus* L. leaves crude extract *Highbrow Bi-annual interdisciplinary journal of research* Vol. 9, issue I; ISSN No. 2350-1154
- Dr. Shikha Mandloi. Dental Biofilm: A Gateway to Oral Diseases.(April 2024). *Highbrow Bi-annual interdisciplinary journal of research* Vol. X, issue II; Pg 7-12
- Dr. Shikha Mandloi and Dr. Nishi Yadav (2024). Immunotherapeutic Importance of *Withania somnifera* and *Ocimum tenuiflorum* against COVID 19. Post Covid trends of Biological Sciences towards Research, Therapeutic, Innovation and Entrepreneurship. Integrated Publishers New Delhi. ISBN NO. 978-93-5834-693-0. Pg- 261-276.
- Dr. Shikha Mandloi. (2024). Post acute sequel of COVID 19 PASC: Recapitulation. Post Covid trends of Biological Sciences towards Research, Therapeutic, Innovation and

Entrepreneurship. Integrated Publishers, New Delhi. ISBN NO. 978-93-5834-693-0. Pg. 209-219.'

- Dr. Nishi Yadav (2024). Immunological aspects of SARS COV 2 causing COVID 19 Pandemic. Post Covid trends of biological sciences towards research, therapeutic innovation and entrepreneurship . Integrated publishers ISBN No. 978-93-5834-693-0

Field Project (In House)

- In the month of January 2025 Students of B.Sc. First year Microbiology completed field project on “Isolation of Microflora from soil of College Campus” during 23th December 2024 to 22th Feb 2025.
- In the month of January 2025 Students of B. Sc. Fourth year Microbiology Honours completed field project on “Isolation of Oral microflora from decayed tooth” during 10th Dec to 8th Feb 2025.
- Student of Botany Major First year completed field project on Preparation of vermicompost from the biodegradable waste of the College campus during 25th Nov 2024 to 13th Feb 2025.
- Students of B.Sc. final year completed field project on Phytochemical analysis and Antimicrobial study of flowers of *Hibicus rosa sinensis* L. against fungus *Aspergillus niger* during 01 January 2025 to 08th March 2025.

Field Project (Out House)

- 12 students of MVM Bhopal completed field project during January and February 2025 on topic “Phytochemical analysis of methanol extract of flowers of medicinal plant *Tagetes erecta*.”

FDP/Conference / Seminar organised and attended by the Faculties

- Dr. Renu Mishra organised FDP as convener on the topic “Indian Culture and Spirituality” from 28th May 2024 to 02nd June 2024 in the College.
- All the faculty members attended the conference organized in the International herbal Mela on the topic “Empowering Womens through MFP” on 18th December 2024.
- Rose Garden inspection was done on 04th January 2025 by the Akhil bhartiya rose exhibition.

Extension Activity:

- Environment Society in collaboration with Botany & Microbiology Department organised a tree plantation program in the Village Tola Chhota Kheda on 13th August 2024. In this program fruit plant saplings were distributed to the villagers by the college students under the supervision of Dr. Nishi Yadav, Associate Professor Microbiology. After the plantation program, a lecture was delivered on the topic importance of cleanliness, sanitation and role of plants towards environment by Dr. Nishi Yadav. B.Sc. I Year students of College Krishna Vishwakarma, Anushka Gupta, Kusum Sahu, Muskan Aswari and Vishakha participated in this program. Anganwadi worker Mrs. Lakshmi Ahirwar and Mrs. Babli Ahirwar were also present in this program.

Extra classes for slow learners

- Remedial classes were organised for the slow learners. Students also help each other for the better understanding and learning. The students are timely helped and encouraged for better performance.

Other important activities

- Dr. Renu Mishra as NAAC Coordinator submitted the AQAR on 12.12.2024, IQAC on 31.12.24 and SSR on 22.02.25 for the NAAC inspection. NAAC Peer team visited the college on 13th-14th November 2024 and College got A+ grade under the leadership of Dr. Renu Mishra as NAAC Coordinator.
- Dr. Shikha Mandloi incharge of Criterion 5 also contributed in the SSR and NAAC Peer team visit.
- Dr. Nishi Yadav, Ms. Supriya Gupta and Mrs. Seema Sahay also helped in the SSR and NAAC Peer team Visit.