

SRI SATHYA SAI COLLEGE FOR WOMEN BHOPAL

Department of Botany & Microbiology

Departmental activities
SESSION- 2025-26

Faculty Development Program (FDP)

1. Department of Botany & Microbiology organized Six Days Faculty Development Program (Online Mode)* on the theme: “Environmental Sustainability – Integrating Science, Policy and Traditional Knowledge for a Resilient Future”. in collaboration with the *Environmental Planning and Coordination Organization (EPCO), Bhopal from 22 Sept. to 27 Sept. 2025. This FDP aims to bring together academicians, researchers and professionals to deliberate on various aspects of environmental sustainability, covering scientific, policy and traditional knowledge perspectives. Eminent experts from diverse fields will be delivering insightful sessions on significant topics.

SRI SATHYA SAI COLLEGE FOR WOMEN
Kasturba Hospital Road, Habibganj, Bhopal, M.P. 462021
Approved by UGC, AICTE, NCTE, BCI New Delhi & Govt. of M.P.,
Affiliated to Barkatullah Vidyapeeth Bhopal

DEPARTMENT OF BOTANY & MICROBIOLOGY
In Association with

ENVIRONMENTAL PLANNING & COORDINATION ORGANIZATION (EPCO), BHOPAL
is organizing a

6 DAYS FACULTY DEVELOPMENT PROGRAM (ONLINE MODE)
on

ENVIRONMENTAL SUSTAINABILITY – INTEGRATING SCIENCE, POLICY AND TRADITIONAL KNOWLEDGE FOR A RESILIENT FUTURE

Date- 22th-27th September 2025 Time- 02- 03 PM

OUR SPEAKERS

<p>MR. LOKENDRA THAKKAR Chief Scientific Officer EPCO, Bhopal, M.P. TOPIC- INDIA'S GREEN CREDIT PROGRAM- SIGNIFICANCE OF TREES & PLANTS IN CARBON SEQUESTRATION</p>	<p>DR. ANJU BAJPAI Principal Sri Sathya Sai Law College for Women, Bhopal, M.P. TOPIC- ENVIRONMENTAL LAWS AND POLICY FRAMEWORKS IN INDIA</p>
<p>MS. MUSKAAN ANAND Global Youth Advocate & Environmental Researcher Jammu & Kashmir TOPIC- GLOBAL AND INDIAN PERSPECTIVES ON ENVIRONMENTAL SUSTAINABILITY</p>	<p>DR. KIRAN BALA Professor Department of Biosciences & Biomedical Engineering IIT, Indore TOPIC- GREEN TECHNOLOGY FOR THE ENVIRONMENTAL CONSERVATION</p>
<p>DR. SAKSHI BHARADWAJ Founder Jungle Vane Bhopal, M.P. TOPIC- INDIAN TRADITIONAL KNOWLEDGE & ENVIRONMENTAL SUSTAINABILITY</p>	<p>DR. NEENA ARORA PhD, Dept. of Chemistry Sri Sathya Sai College for Women Bhopal, M.P. TOPIC- CLIMATE AT THE CROSSROAD: BUILDING A SUSTAINABLE WORLD TOGETHER</p>

PATRON
SHRI JAMBU BHANDARI JI
CHAIRMAN
COLLEGE GOVERNING BODY
DR. PRATIBHA SINGH
DIRECTOR

CONVENOR
DR. RENU MISHRA
HOD
BOTANY & MICROBIOLOGY DEPT.
CO- CONVENOR
DR. SURESHA MANDOLI
ASST. PROF. MICROBIOLOGY
BOTANY & MICROBIOLOGY DEPT.

ORGANIZING MEMBER
DR. NEHA TAYAL, ASST. PROF. MICROBIOLOGY
DR. SUPRIYA GUPTA, ASST. PROF. BOTANY

REGISTRATION FEES- RS. 500/-

Scan for Registration Scan for Payment
LAST DATE FOR REGISTRATION IS 27TH SEPTEMBER 2025
For any enquiry You can Contact on
PHONE NO: 7967619463

Guest Lecture

1. On the Occasion of World Food Day, Department of Botany & Microbiology organized a expert talk on “Nature’s Recycler: How Mushrooms Turn Waste into Wellness” on 17th October 2025 by Dr. Shadma Siddiqui, Professor, University of Bisha, Saudi Arabia. The session highlighted the ecological and nutritional significance of mushrooms in promoting sustainability and wellness. The celebration

concluded with a collective message of gratitude, sustainability and respect for food, farmers and nature



2. Department of Botany and Microbiology in association with Internal Quality Assurance Cell (IQAC) organized hybrid-mode Expert Talk on “Working Smarter with LLMs and AI Tools for Academic Success” on 7th August, 2025. The keynote speaker for the session was **Dr. Sonam Mishra, Research Scientist at IBM Research Lab, Gurugram**. She delivered a compelling and insightful presentation on the transformative role of Artificial Intelligence (AI) and Large Language Models (LLMs) in modern academics. She introduced participants to advanced AI tools such as Chat GPT, Gemini, Perplexity and Humata, explaining their functions and showcasing how they can enhance academic productivity, streamline research and support personalized learning.

SRI SATHYA SAI COLLEGE FOR WOMEN
Kasturba Hospital Road, Habibganj, Bhopal, M.P. 462021
Approved by UGC, AICTE, NCTE, BCI New Delhi & Govt. of M.P., Affiliated to Barkatullah Vishwavidyalaya

UNDER THE AEGIS OF IQAC
DEPARTMENT OF BOTANY & MICROBIOLOGY
organises
Expert Talk (Hybrid mode) on
WORKING SMARTER WITH LLMs:
AI TOOLS FOR ACADEMIC SUCCESS
By
DR. SONAM MISHRA
RESEARCH SCIENTIST
IBM RESEARCH LAB
USA

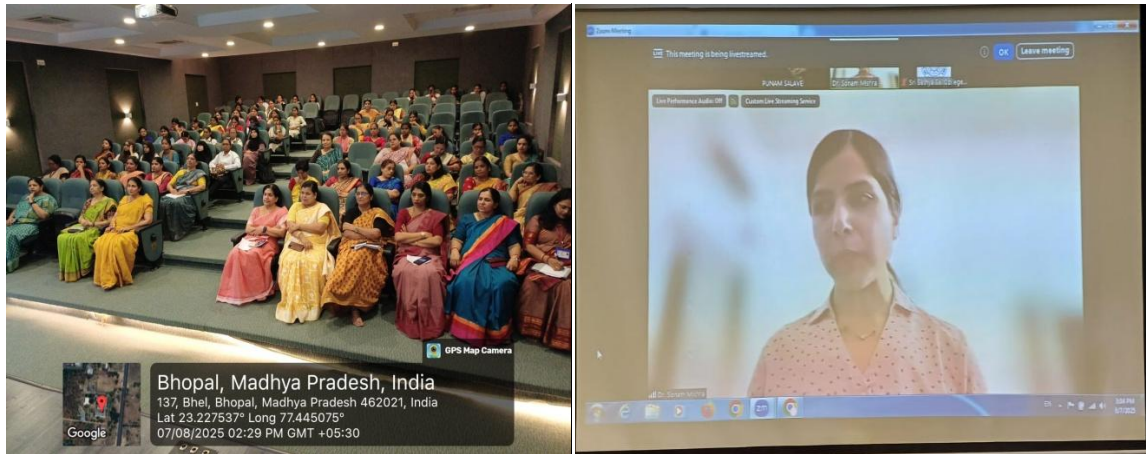
Date- 07th August 2025 Day- Thursday
Time- 02:00- 03:00 PM
Venue- Auditorium

When Technology, meets curiosity, Innovation is born- AI is the Spark
Join us to explore the transformative power
of AI in Education, Innovation & beyond

DR. PRATIBHA SINGH DIRECTOR
DR. ARCHANA SRIVASTAVA PRINCIPAL, SSSCW
DR. ANJU BAJPAI PRINCIPAL, LAW SSSCW, BHOPAL
DR. SMITA NAIR IQAC CO-COORDINATOR
DR. RENU MISHRA HOD, BOTANY & MICROBIOLOGY DEPT.

DR. NEENA ARORA IQAC COORDINATOR

For any Query, You can Contact on 8989003916



Inauguration of Sri Sathya Sai Nursery

1. Under the Supervision of Dr. Renu Mishra (Vice Principal) and members of the Nursery Management Committee including Dr. Shikha Mandloi, Mrs. Archana Chauhan, Mr. Mithesh Assaiya, and Ms. Supriya Gupta on 18th August 2025 Sri Sathya Sai Nursery was established & inaugurated at Sri Sathya Sai College for Women, Bhopal. The programme was graced by Sri Sathya Sai Trust members Mr. K. K. Nair and Mr. Vijay Sampatji. The inauguration programme was attended by Director Dr. Pratibha Singh, Principal Dr. Archana Shrivastava, Dr. Anju Bajpai Principal, Law College. All Faculty Members, students, and gardeners actively participated in the programme. The guests and faculty members purchased plants to mark the occasion. The college also launched a Certificate Course in Nursery Management to promote environmental awareness and a spirit of green living among students.



Workshop Organized

1. One Day workshop was organized on “Preparation of Herbal Products” on 5th January 2025. Invited Resource Person of workshop is Ms. Supriya Gupta, Assistant

Professor, Botany from Chandrasekhar Azad PG lead College (PM Excellence College), Sehore, M.P. In this Workshop 40 students participated & learned to make various herbal products like Aleovera Gel, Chyawanprash, Gulal, Rose water, Arjunarist, etc.

SRI SATHYA SAI COLLEGE FOR WOMEN
Kasturba Hospital Road, Habibganj, Bhopal, M.P. 462024
Approved by UGC, AICTE, NCTE, BCI New Delhi & Govt. of M.P.,
Affiliated to Barkatullah Vishwavidyalaya

DEPARTMENT OF BOTANY & MICROBIOLOGY
organises
ONE DAY WORKSHOP
ON
PREPARATION OF HERBAL PRODUCTS

OUR INVITED RESOURCE PERSON
MS. SUPRIYA GUPTA
ASSISTANT PROFESSOR BOTANY
CHANDRASHEKHAR AZAD P.G. LEAD
COLLEGE (PM EXCELLENCE COLLEGE)
SEHORE M.P.

Date- 05th January 2025 Day- Monday
Time- 10:30- 03:00 PM
Venue- Department of Botany & Microbiology

DR. PRATIBHA SINGH
DIRECTOR

DR. ARCHANA SRIVASTAVA
PRINCIPAL
SSSCM

DR. RENU MISHRA
HOD
BOTANY & MICROBIOLOGY DEPT.

DR. SHIKHA MANDLOI
ASSO. PROF. MICROBIOLOGY
BOTANY & MICROBIOLOGY DEPT.

DR. NISHI YADAV
ASSO. PROF. MICROBIOLOGY
BOTANY & MICROBIOLOGY DEPT.

MS. SHOBHANA SONI
RESEARCH SCHOLAR
BOTANY & MICROBIOLOGY DEPT.



Certificate Courses

1. The Department launched a Certificate Course in Nursery Management to promote environmental awareness and a spirit of green living among students.
2. The Department also runs Certificate Courses in medicinal Plants & Organic fertilizers to enhance skills among students.

SRI SATHYA SAI COLLEGE FOR WOMEN
Kasturba Hospital Road, Habibganj, Bhopal, M.P. 462021
Approved by UGC, AICTE, NCTE, BCI New Delhi & Govt. of M.P.,
Affiliated to Barkatullah Vishwavidyalaya

INTERNSHIP, FIELD PROJECT & CERTIFICATE COURSE on MEDICINAL PLANTS
Open for all UG & PG Students

COURSE HIGHLIGHTS

- Practical Experience
- Field Visits for Plant Identification in natural habitats
- Uncover the traditional and modern uses of various medicinal plants
- Plant Extraction Techniques including: Soxhlet extraction, Cold maceration etc.
- Qualitative Phytochemical Analysis of plant extracts
- Antifungal and Antibacterial Activity Testing of plant compounds
- Gain skills useful for careers in pharmacology, herbal medicine, botany and natural product research
- Flexible Schedule

SCOPE & JOB OPPORTUNITY

- Pharmaceutical & Herbal Industry (RFD, formulation, and quality control)
- Ayurveda & Natural Medicine
- Biotechnology & Life Sciences (Plant-based therapeutic research)
- Academia & Research (Higher studies in pharmacology and botany)
- Environmental & Ethnobotany (Sustainable plant use with NGOs/Entrepreneurship)
- Herbal and natural product startups

For any Query
Dr. Renu Mishra 9425014870 Dr. Shikha Mandloi 7974077234 Dr. Nishi Yadav 9243 3235

SRI SATHYA SAI COLLEGE FOR WOMEN
Kasturba Hospital Road, Habibganj, Bhopal, M.P. 462021
Approved by UGC, AICTE, NCTE, BCI New Delhi & Govt. of M.P.,
Affiliated to Barkatullah Vishwavidyalaya

TRAINING, INTERNSHIP, FIELD PROJECT & CERTIFICATE COURSE on ORGANIC FARMING
Open for all UG & PG Students

COURSE HIGHLIGHTS

- Visits to Organic Farms and fields
- Expert lectures
- Preparation of Vermicompost & Kitchen waste Compost
- Herbal Pesticide & Biofertilizer Preparation
- Sustainable Agriculture Techniques like water conservation, crop rotation, mulching etc.
- Advanced & Modern Organic Methods – including precision farming and smart tools
- Various Organic Farming Models – intercropping, permaculture, mixed cropping etc.
- Concepts like Zero Budget Natural Farming (ZBNF)

SCOPE & JOB OPPORTUNITIES

- Organic farming consultant
- Agronomist in Eco-farming ventures
- Work with NGOs and sustainable agriculture projects
- Employment in Organic product companies
- Roles in environmental education and farm training
- Research opportunities in sustainable Agriculture
- Higher education

For any Query
Dr. Renu Mishra 9425014870 Dr. Shikha Mandloi 7974077234 Dr. Nishi Yadav 9243 3235

SRI SATHYA SAI COLLEGE FOR WOMEN
Kasturba Hospital Road, Habibganj, Bhopal, M.P. 462021
Approved by UGC, AICTE, NCTE, BCI New Delhi & Govt. of M.P.,
Affiliated to Barkatullah Vishwavidyalaya

TRAINING, INTERNSHIP, FIELD PROJECT & CERTIFICATE COURSE on NURSERY MANAGEMENT

ENROLL NOW From Seed to Success
Professional Skills for a Growing Industry

EARN 2 EXTRA CREDITS
JOIN NOW

WHY CHOOSE THIS COURSE?

- PRACTICAL EXPERIENCE
- LEARN FROM EXPERTS
- VISIT TO NURSERIES & EXHIBITIONS
- CAREER GROWTH
- FLEXIBLE SCHEDULE

SCOPE & JOB OPPORTUNITY

- PLANT NURSERIES & HORTICULTURE
- LANDSCAPING & URBAN GARDENING
- GOVERNMENT JOBS & DEPARTMENTS
- AGRIBUSINESS & PRIVATE SECTOR
- ENTREPRENEURSHIP

For any Query
Dr. Renu Mishra 9425014870
Dr. Shikha Mandloi 7974077234
Mrs. Archana Choudhan 9424491896

Activities Organised

1. On 22nd July 2025 Reel Making competition on theme "Capture, Create and Connect with Nature" was organised by Department in association with Environment Society
2. On the occasion of Hariyali Amavasya Department in association with environment Society Sapling Plantation activity was organised on 24th July 2025.
3. Students of B. Sc. First year vocational prepared Vermicompost in the college and marketed in the college campus .
4. 3D Charts & Model were prepared by students of Microbiology.
5. Field Visit



Research Activities

Field Project (In House)

- 06 Students of B.Sc. First year Microbiology completed field project on “Bioinstrumentation”. during 23th December 2025 to 22th Feb 2026.
- 07 students of B.Sc. I Year Botany completed Internship during on topic “Principles and Applications of Instruments used in life sciences” during 23th December 2025 to 22th Feb 2026.
- 07 students of B.Sc. II Year Microbiology completed Internship during November 2025 on topic “Study of Aeromycoflora of College Campus”
- 10 students of B.Sc. II Year Botany completed Internship during November 2025 on topic “Qualitative Analysis of Phytoconstituents of *Hibiscus rosa-sinensis* L.”

Field Project (Out House)

- 49 students of B.Sc. I Year BHEL College Bhopal completed Internship during October 2025 on topic “Instrumentation in life sciences: Principles and Applications”.
- 52 students of B.Sc. II & III Year BHEL College Bhopal completed Internship during November 2025 on topic “Phytochemical Analysis of flowers of *Hibiscus rosa-sinensis* L.”
- 18 students of M.Sc. I Sem BHEL College Bhopal completed Internship during October 2025 to November 2025 on topic “Aeromycological Studies of College Campus”





List of Publications

1. Delna NS, Mishra R, Prakash A, Sadaf N, Kumar V, Babu J, Lavanya A, Johnson LS, Akshay VP, Sivamalar S, Verma B, Tiwari AK. Bacterial pigments as biosynthetic platforms: A systematic review of current evidence. *Int J Environ Sci.* 2025;11(10):1-1. Available from: <https://www.theaspd.com/ijes.php>
2. Moorthi CS, Karicheri R, Bhattacharya Z, Mishra R, Habeeba KS, Keerthana R, Akshay VP, Kumar V, Delna NS. The growing burden of *Klebsiella pneumoniae* infections in Indian healthcare: A comprehensive review of case reports. *SEEJPH.* 2025; XXVI(S2):4008. Available from: <https://www.seejph.com/index.php/seejph/article/view/245>
3. Delna NS, Mishra R, Prakash A. A brief review on the emerging role of bacterial pigments: From industrial uses to novel therapeutic applications. *Asian J Biotechnol Bioresour Technol.* 2024;10(4):12-17. doi:10.9734/ajb2t/2024/v10i4214 <https://journalajb2t.com/index.php/AJB2T/article/view/214/428>
4. Supriya Gupta, Renu Mishra. Ayurveda to modern Pharmacology: A Comprehensive Review of *Catharanthus roseus* Linn. And *Psidium guajava* L. Oct. 2025 *Highbrow Bi-annual Multidisciplinary Journal of Research* Vol.12 (1) :85-94
5. Shobhana Soni, Renu Mishra. A Comprehensive Review on *Hibiscus rosa sinensis* : Ayurvedic Perspective and modern correlations. Oct. 2025 *Highbrow Bi-annual Multidisciplinary Journal of Research* Vol.12 (1) :67-73
6. Nishi Yadav, Anjani Dubey. Ayurveda to modern Pharmacology: Artificial Intelligence in Microbiology: Transforming Research and Clinical Practice. Oct. 2025 *Highbrow Bi-annual Multidisciplinary Journal of Research* Vol.12 (1) :40-46
7. NS Delna, Renu Mishra, Anil Prakash. Molecular and Functional Characterization of Pigment-Producing Bacteria: Exploring Secondary Metabolites with Antimicrobial Activity Against Multidrug-Resistant Pathogens. Research article is accepted by "The Microbe" Elsevier, Science Direct...Reference: MICROB_100540
8. Sheetal sahare, Ram Prasad kushvaha, Renu Mishra, Urmila Meghval and Sunil Kumar Snehi decolourization of malachite green dye by bacteria isolated from drainage effluent. October 25. *ACTA scientific Microbiology.* Volume 8 (10): 19-28

Editorial Board Members

1. Dr. Renu Mishra, Chief Editor of National Science Library, International Standard Serial Number, National Centre India.
2. Dr. Shikha Mandloi, Editorial Board member National Science Library, International Standard Serial Number, National Centre India.
3. Dr. Nishi Yadav, Editorial Board member of Journal of Microbiology & related research.
4. Dr. Renu Mishra & Dr. Nishi Yadav, Editorial Board member of Research Journal Highbrow.

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.