

BRIEF PROFILE



Name : **Dr. (Mrs.) Ranjana Shrivastava**

Designation : Principal
Govt. Dr. W.W. Patankar Girls' PG College, Durg

Academic Qualification : M.Sc., Ph.D.

Department : Botany

Date of Birth : 04-04-1963

Date of First Appointment : 08-12-1984

Date of Regularization : 15-06-1987

Specialization in P.G. : Plant Pathology, Antimicrobial activity and Medicinal plants.

Ph.D.(Botany) : 14-11-2002

Title : Epidemiology & Management of Rice Blast disease in Northern hills region of Chhattisgarh, {M.P}.

Details of Awards : Gold Medal in M.Sc. {1984}

Office Address : Department of Botany,
Govt. V.Y.T. PG. Autonomous College, Durg

Residential Address : Plot No. -23 Anand Nagar,
Utai Road, Durg (Chhattisgarh) Pin- 491001

Telephone No.

- **Land Line** : 0788-2333157(R)
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Teaching Experience

- **Under Graduate** : 40 Years
- **Post Graduate** : 36 Years

Research Experience : 22 Years

Recognized Supervisor for

- **Ph.D. Guidance {Botany}** : 4 Awarded Ph.D.
1 Thesis Submitted
- **{Microbiology}** : 2 Awarded Ph.D.
{2Scholar Pursuing}

- **Others:**

- ❖ **Two research scholars are awarded Rajiv Gandhi Fellowship**

- ❖ **Member ship of the Scientific Societies:**

Society of Life Sciences {NJLS & LSB}	:	Life	member
Advances in Plant Science	:	Life	member
Journal of Basic and Applied Mycology	:	Life	member
Journal Lab to Land	:	Editorial Advisory Board	

- ❖ **Honorary Fellowship Award:**

F.S.L. Sc.: Awarded by Society of Life Sciences, India (2009)

Member of Board of Studies (Botany), Pt. Ravishankar Shukla University, Raipur

Research Details (In Brief):

The following are the major fields of research presently being undertaken in my laboratory:

1. **Studies on Microflora Associated with Oil Seeds during Long-Term Storage**
this research aims to identify phytopathogenic microorganisms associated with oil seeds to reduce the risk of unacceptable levels of disease in crop plants. The goal is to minimize crop loss and the introduction of new disease-causing pathogens in different regions or countries.
2. **Phenological Studies of Weed Species in Chhattisgarh** A research scholar is studying the phenological patterns of weeds along a disturbance gradient to analyze their response to climatic factors and seasonal periodicity.
3. **Analysis of Native Medicinal Plants and Their Ecological Status in Chhattisgarh**
The study focuses on the diversity of flora in the region and seasonal variations, particularly concerning medicinal plants.
4. **Evaluation of Medicinal Plants for Antimicrobial Activity against MDR Strains**
Indigenous medicinal plants from the districts of Durg and Rajnandgaon are being screened for antimicrobial activity. Research scholars are conducting laboratory-based investigations, and significant findings have already been established.
5. **Rhizospheric Study of Native Medicinal Plants** A research scholar is examining the role of secondary metabolites and environmental factors in influencing host defenses in native medicinal plants.
6. **Biodegradation of Organic Compounds** The study reviews the biodegradation processes of organic compounds to explore their potential in addressing bioremediation challenges. Research scholars are actively working on this topic.

7. **Bacteriocin Production from *Lactobacillus* Species** Scholars are screening *Lactobacillus* species for bacteriocin production. The produced bacteriocin is being studied further for its potential use as a bio-preservative.
8. **Antimicrobial Activity and Phytochemical Analysis of Algae** This research explores the antimicrobial properties and phytochemical components of various algae species.
9. **Diversity of Aeromycoflora in the ACC Jamul Factory Area and Non-Polluted Areas in Jamul, Bhilai** The study investigates the diversity of aeromycoflora in polluted and non-polluted areas of the Jamul region.
10. **Effect of Organochlorine Pesticides on Actinomycetes Recovered from Parboiled Rice Mill Effluent** Research focuses on understanding the impact of organochlorine pesticides on actinomycetes in rice mill effluents.
11. **Impact of Urea on Plant Growth-Promoting Rhizobacteria with Reference to Rice Crops** The study evaluates how urea influences rhizobacteria that promote rice plant growth.
12. **Antimicrobial Activity of Medicinal Plants** Various medicinal plants are being analyzed for their antimicrobial properties.
13. **Antibacterial Activity of *Senna alata* from Raipur, Chhattisgarh, Against Standard MTCC Strains** The leaves of *Senna alata* are being studied for their antibacterial properties.
14. **Antibacterial Activity of Roots of *Senna alata* from Ambikapur Against Standard MTCC Strains** This research investigates the antibacterial properties of *Senna alata* roots from Ambikapur.

Details of Publications:

➤ Research Papers Published in National/International Journals

1. **Shrivastava, R.** (2006). Effect of spacing on foliar incidence of blast disease. *Research Link*, 27(5), 133.
2. **Shrivastava, R.** (2006). Effect of seasons and time of sowing crops on foliar incidence of blast disease in rice. *National Journal of Life Sciences*, 3(3), 481–483.
3. **Shrivastava, R.** (2006). Assessment of potentiality of *Nelumbo* cultivation under central plains of Chhattisgarh. *Research Link*, 32(5), 30.
4. Pandey, G., **Shrivastava, R.**, & Gupta, S. (2006). Preliminary study of avenue trees of Steel City (Bhilai). *Research Link*, 32(5), 28.
5. **Shrivastava, R.**, Mahobiya, D., & Meshram, N. (2009). Mycoflora associated with soybean seeds. *Life Science Bulletin*, 6(2), 163–165.
6. Jimnani, K., Meshram, N., & **Shrivastava, R.** (2009). Hydrocarbon utilization by bacteria as a sole source of carbon. *Research Analysis and Evaluation*, 1(1), 5–11.

7. Meshram, N., Jimnani, K., & **Shrivastava, R.** (2009). Screening of bacteria for the biodegradation of different hydrocarbons. *Life Science Bulletin*, 6(3), 315–318.
8. Meshram, N., Jimnani, K., & **Shrivastava, R.** (2010). Screening of fungi for the biodegradation of different hydrocarbons. *Life Science Bulletin*, 7(1), 47–48.
9. Chelak, E. P., **Shrivastava, R.**, Shrivastava, A. K., & Verma, A. C. (2010). Characterization of groundwater for human activity zones of Dongargarh City (Chhattisgarh). *Lab to Land*, 2(7), 354–357.
10. Chelak, E. P., **Shrivastava, R.**, & Shrivastava, A. K. (2011). Floristic diversity of Dongargarh hill range, Chhattisgarh. *Lab to Land*, 3(9).
11. Chelak, E. P., **Shrivastava, R.**, Shrivastava, A. K., & Pandey, B. (2011). Water quality assessment of groundwater resources in Dongargarh City (Chhattisgarh) based on WQI. *Lab to Land*, 3(9).
12. **Shrivastava, R.**, Singh, A., & Meshram, N. (2011). Detection of seed-borne fungi in soybean by different incubation methods. *Lab to Land*, 3(12), 519–521.
13. Sahu, Y., Meshram, N., Thakur, G. S., & **Shrivastava, R.** (2011). Ecological status of medicinal plants of Durg Nagar Nigam area, Chhattisgarh. *Advances in Plant Sciences*, 24(II), 621–632.
14. Bharadwaj, M., **Shrivastava, R.**, & Shrivastava, A. K. (2011). Aeromycofloral diversity of St. Thomas College, Bhilai. In *Proceedings of National Conference on Climatic Change & Its Effect on Biodiversity* (pp. 5–6). Bhilai, Chhattisgarh.
15. Chelak, E. P., **Shrivastava, R.**, & Shrivastava, A. K. (2011). Physiochemical characterization in two ponds of Dongargarh City (Chhattisgarh). In *Proceedings of National Conference on Climatic Change & Its Effect on Biodiversity* (pp. 5–6). Bhilai, Chhattisgarh.
16. Philip, C., **Shrivastava, R.**, Pandey, B., & Shrivastava, A. K. (2011). Biodiversity and biochemical properties of genus *Micromonospora* recovered from a gelatin factory. In *Proceedings of National Conference on Climatic Change & Its Effect on Biodiversity* (pp. 5–6). Bhilai, Chhattisgarh.
17. Shrivastava, A. K., Dewangan, N., **Shrivastava, R.**, & Chandrakar, B. (2012). Isolation and characterization of plant growth-promoting rhizobacteria associated with *Vitex negundo*. *Life Science Bulletin*, 9(1), 197–199.
18. Bharadwaj, M., **Shrivastava, R.**, & Shrivastava, A. K. (2012). Seasonal variation of algal biodiversity from three freshwater ponds of Bhilai, India. In *Climatic Change & Its Effect on Biodiversity* (pp. 89–95). Bhilai, Chhattisgarh. ISBN 978-81-202-8869-7.
19. Verma, S., **Shrivastava, R.**, & Karkun, D. (2012). Ethnomedicinal plants and their effect on public health. *Journal of Pharmaceutical and Biomedical Sciences*, 21(22), 1–4.
20. Thakur, B., Verma, S., **Shrivastava, R.**, & Karkun, D. (2013). Ethnobotanical plant diversity in Mainpur Block, District Gariaband, Chhattisgarh, India. *International Journal of Innovative Research and Studies*, 2(6), 11–24.

21. Verma, S., Thakur, B., **Shrivastava, R.**, & Karkun, D. (2013). Studies of airomycoflora of District and Session Court of Durg, Chhattisgarh. *Journal of Biological Innovation*, 2(4), 146–151.
22. Meshram, N., & **Shrivastava, R.** (2013). Scientific validation exploring traditional knowledge of Indian culture. *International Journal of Traditional Knowledge*. (Communicated).
23. Bharadwaj, M., Shrivastava, A. K., & **Shrivastava, R.** (2014). Phycochemical analysis of two members of order Zygnematales. *International Journal of Geology, Agriculture, and Environmental Sciences*, 2(2), 27–30.
24. Bharadwaj, M., Shrivastava, A. K., & **Shrivastava, R.** (2014). Phycochemical and antimicrobial study of vigorous freshwater alga *Mougeotia*. *International Journal of Current Microbiology and Applied Sciences*, 3(4), 1020–1024.
25. Dewangan, N., **Shrivastava, R.**, Shrivastava, A. K., & Sahu, V. (2014). Isolation and characterization of PGPR from the rice rhizosphere for phosphate solubilization.
26. Singh, A., Meshram, N., & **Shrivastava, R.** (2014). Acute human lethal toxicity effects of some pesticide families. *Journal of Industrial Pollution Control*.
27. Shrivastava, A. K., Bharadwaj, M., & **Shrivastava, R.** (2014). Algal biodiversity in a freshwater reservoir of Durg. *Indian Journal of Scientific Research*, 4(1), 121–126.
28. Philip, C., Shrivastava, A. K., & **Shrivastava, R.** (2014). Effect of organochlorine pesticides on the growth of actinomycetes. *Indian Journal of Scientific Research*, 4(1), 121–126.
29. Bharadwaj, M., Shrivastava, A. K., & **Shrivastava, R.** (2014). Antibacterial and antifungal activity of *Mougeotia*. *International Journal of Basic and Applied Science Research*, 1(1), 54–57.
30. Mahobiya, D., & **Shrivastava, R.** (2015). Production, optimization, and characterization of broad-spectrum bacteriocins from *Lactobacillus plantarum* DP2 and *Lactobacillus casei* DD1. *Research Journal of Pharmaceutical, Biological, and Chemical Sciences*, 6(2), 738–747.
31. **Shrivastava, R.** (2015). Diversity of actinomycetes in parboiled rice mill effluent. *IOSR Journal of Environmental Science, Toxicology and Food Technology*, 9.
32. **Shrivastava, R.**, Dewangan, N., & Shrivastava, A. K. (2015). Comparative study of application of chemical and biofertilizer for better growth of *Vitex*, a medicinal plant. *Indian Journal of Life Sciences*, 5, 41–43.
33. **Shrivastava, R.** (2015). Co-inoculation of *Azotobacter* and *Pseudomonas* to improve growth of rice (*Oryza sativum*). *Society for Promotion of Tropical Biodiversity*, 23(1), 98–101.
34. **Shrivastava, R.** (2015). Combined application of *Azotobacter* and urea to improve growth of rice (*Oryza sativum*). *Journal of Environmental Science, Toxicology and Food Technology*, 72–77.
35. **Shrivastava, R.** (2017). *In vitro* evaluation of antimicrobial activity of *Tecoma stans* and *Vitex negundo*. *Indian Journal of Scientific Research*, e-ISSN: 2250-0138, p-ISSN: 0976-2876.

36. Dewangan, N., Mishra, A., **Shrivastava, R.**, & Shrivastava, A. (2017). Study of antibacterial property of *Nirgundi* leaves. *Flora and Fauna*, ISSN: 0971-6920.
37. Dewangan, N., **Shrivastava, R.**, & Shrivastava, A. (2017). *In vitro* evaluation of antibacterial activities of *Tecoma stans* and *Vitex negundo*. *Indian Journal of Scientific Research*, p-ISSN: 0976-2876, e-ISSN: 2250-0138.
38. Sharma, P., Roymon, M. G., & **Shrivastava, R.** (2017). Antibacterial activity of the root of *Senna alata* from Ambikapur against standard MTCC strains. *Indian Journal of Scientific Research*, e-ISSN: 2250-0138, p-ISSN: 0976-2876.
39. Sharma, P., **Shrivastava, R.**, & Roymon, M. G. (2017). Antibacterial activity of *Senna alata* from Raipur, Chhattisgarh, against standard MTCC strains. *Flora and Fauna*, ISSN: 0971-6920.
40. Dewangan, N., **Shrivastava, R.**, & Anwer, S. (2020). Role of *Pseudomonas* species as a biofertilizer and biocontrol agent. *International Journal of Innovative Research in Multidisciplinary Field*, ISSN: 2455-0620.
41. Sahu, L., & **Shrivastava, R.** (2022). Review: Role of microorganisms in petroleum hydrocarbon degradation. *International Journal of Enhanced Research in Science, Technology & Engineering*, ISSN: 2319-7463.
42. Sahu, L., & **Shrivastava, R.** (2022). Estimation of physiochemical properties and bacterial strain isolation from petroleum hydrocarbon-contaminated soil at various automobile workshops. *International Journal of Current Science*, ISSN: 2250-1770.
43. Sahu, L., & **Shrivastava, R.** (2022). Hydrocarbon biodegradation efficiency by four indigenous bacterial strains isolated from contaminated soils. *International Journal of Science, Engineering and Management*, 9(10), 63–69. ISSN (online): 2456-1304.
44. Sahu, L., & **Shrivastava, R.** (2022). Characterization of biosurfactants produced by hydrocarbon-degrading bacteria *Acinetobacter junii* isolated from petroleum hydrocarbon-contaminated soil. *Bulletin of Environmental, Pharmacology and Life Sciences*, 12(1), 110–117. ISSN: 2277-1808.
45. Prasad, D., **Shrivastava, R.**, Akram, W., Rajwade, S. K., & Nirmalkar, D. (2022). Preliminary phytochemical screening of successive reextraction of *Moringa oleifera* leaves. *International Journal of Novel Research and Development*, 7(10), b297–301. ISSN: 2456-4184.
46. Prasad, D., **Shrivastava, R.**, & Baig, S. A. (2022). Antisickling screening of the unripe fruit extracts of *Carica papaya* (Caricaceae). *International Journal of Food and Nutritional Sciences*, 11(12), 14546–14552. ISSN: 2319-1775.
47. Nirmalkar, D., Naidu, V. L., **Shrivastava, R.**, & Prasad, D. (2023). Comparative study on the growth and yield of *Pleurotus ostreatus* (jacq. fr.) mushroom on different substrates. *International Journal of Futuristic Innovation in Arts, Humanities and Management*, 2(3), 16–32.

48. Bharadwaj, M., Shrivastava, A. K., & **Shrivastava, R.** (2024). Fatty acid composition of *Chara* species for nutritional and biofuel implications. *Spectrum of Emerging Sciences*, 4(2), 22–30.
 49. Sahu, L., Mahobiya, D., **Shrivastava, R.**, & Khalkho, A. (2024). Biosurfactant production and hydrocarbon degradation activity of bacteria isolated from petroleum-contaminated soil. *Ecology, Environment and Conservation*, 3, [Page Range if Available]. ISSN: 0971-765X.
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➤ **Publications of Books/Articles:**

1. Meshram, N., Jimnani, K., & **Shrivastava, R.** (Year). Petroleum hydrocarbon products utilization by some microorganisms. In B. N. Pandey, S. P. Singh, & R. Singh (Eds.), *Sustainable Management & Conservation of Biodiversity* (pp. 221–230).
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➤ **Granting/Issue Patent – Indian Design Patent**

1. Patent Design No. 401534-001 “Hand Held Sickle cell Detecting Device” Date 15/02/2024.
 2. Patent Design No. 424481-001 “Mushroom Jaggery Candy Making Device” Date 13/09/2024.
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➤ **Published/Presented Research Papers/Abstracts**

(National/International Conferences, Seminars & Symposiums):

1. **Shrivastava, R.** (1996). Pollution due to deforestation and coal mining in tribal areas at Bistrampur: Ambikapur, M.P. Presented at the National Seminar held in Ambikapur, Madhya Pradesh.
2. **Shrivastava, R.** (2006). Possibility of *Nelumbo* cultivation under central plans of Chhattisgarh. Presented at the National Conference on *Plant Diversity & Its Conservation*, Bhilai, Chhattisgarh (November 11, 2006).
3. **Shrivastava, R.**, & Pandey, G. (2011). **Diversity of seed-borne mycoflora in soybean (*Glycine max* (L.) Merrill).** Published in the *Proceedings of the National Seminar on Biodiversity Conservation and Its Socio-Economic Significance*, Ambikapur, Chhattisgarh (February 28–March 1, 2011).
4. **Shrivastava, R.**, Meshram, N., & Singh, A. (2011). **Effects of climate change on phenological studies of some weed species.** Published in the *Proceedings of the National Conference on Climate Change & Its Effect on Biodiversity*, Bhilai, Chhattisgarh (February 5–6, 2011).
5. Bharadwaj, M., **Shrivastava, R.**, & Shrivastava, A. K. (2011). **Aeromycofloral diversity of St. Thomas College, Bhilai.** Published in the *Proceedings of the National Conference on Climate Change & Its Effect on Biodiversity*, Bhilai, Chhattisgarh (February 5–6, 2011).
6. Chelak, E. P., **Shrivastava, R.**, Shrivastava, A. K., & Pandey, B. (2011). **Floristic diversity of Dongargarh hill range, Chhattisgarh.** Published in the *Proceedings of the National Conference on Climate Change & Its Effect on Biodiversity*, Bhilai, Chhattisgarh (February 5–6, 2011).

7. Chelak, E. P., **Shrivastava, R.**, & Shrivastava, A. K. (2011). **Physiochemical characterization of two ponds in Dongargarh City under biotic stress.** Published in the *Proceedings of the National Conference on Climate Change & Its Effect on Biodiversity*, Bhilai, Chhattisgarh (February 5–6, 2011).
8. Philip, C., **Shrivastava, R.**, Pandey, B., & Shrivastava, A. K. (2011). **Biodiversity and biochemical properties of genus *Micromonospora* recovered from a gelatin factory.** Published in the *Proceedings of the National Conference on Climate Change & Its Effect on Biodiversity*, Bhilai, Chhattisgarh (February 5–6, 2011).

Papers Presented (National/International Conferences, Seminars & Symposiums):

1. **Research Seminar on “Pollution due to Deforestation and Coal Mining”**
Sponsored by the Department of Higher Education, M.P. Government, and organized by Government Post Graduate College, Ambikapur, 14th–15th February 1994.
2. **National Conference on “Plant Diversity and its Conservation”**
Organized by St. Thomas College, Bhilai, 11th–12th November 2005.
3. **National Conference on “Climate Change and its Effect on Biodiversity”**
Sponsored by UGC and organized by Bhilai Mahila Mahavidyalaya, Bhilai, 5th–6th February 2011.
4. **National Seminar on “Biodiversity Conservation and its Socio-Economic Significance”**
Sponsored by UGC and organized by Rajiv Gandhi Government P.G. College, Ambikapur, 28th February–1st March 2011.
5. **National Seminar on “Biodiversity of Medicinal and Aromatic Plants with Respect to Its Collection, Conservation & Characterization”** Oral presentation on “Exploration of Mycofloral Population Over Field at Vinayakpur, Durg.” Organized by GD Rungta College of Science & Technology, Bhilai, 28th–29th January 2015.
6. **National Seminar on “Modern Pioneering Trends of Environmental Management with Reference to Waste Management”** Oral presentation on “Biodegradation of Pesticides.” Sponsored by CGCOST, Raipur, and organized by GD Rungta College of Science & Technology, Bhilai, 18th–19th February 2015.
7. **International Seminar on “Interdisciplinary International Seminar”** Sponsored by CGCOST, Raipur. Presented a paper on “Combined Application of *Azotobacter* and Urea to Improve Growth of Rice (*Oryza sativa*).” Organized by Swami Shri Swaroopanand Saraswati Mahavidyalaya, Bhilai, 22nd–24th September 2015.

8. **National Seminar on “Present Scenario in Phytomicrobial Aspects Beneficial to Mankind”**
Organized by the Department of Botany & Microbiology, Government W.W. Patankar Girls P.G. College, Durg, 27th–28th January 2017.
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Seminars/Conferences Attended

1. **National Science Day Seminar** Sponsored by Chhattisgarh Council of Science and Technology, 27th April 2006.
2. **National Seminar on “Environmental Issues and Economic Development”** Sponsored by UGC and organized by Dr. Radha Bai Government Navin Kanya Mahavidyalaya, Raipur, 5th January 2007.
3. **14th National Conference on Aerobiology** Organized by the School of Studies in Biotechnology, Pt. Ravishankar Shukla University, Raipur, 15th–17th January 2007.
4. **National Conference on “Species Diversity: Measurement, Magnitude, Gradients, Uses, and Conservation”** Sponsored by UGC and organized by Government Kamala Devi Mahavidyalaya, Rajnandgaon, 26th–27th February 2008.
5. **National Seminar on “Botanical Researches: Present Scenario and Future Prospects”** Organized by Government College of Science, Raipur, 29th–30th January 2008.
6. **National Seminar on “Physiology and Molecular Biology of Stress in Plants”** Organized by St. Thomas College, Bhilai, 19th December 2009.
7. **National Conference on “Frontiers of New Biology”** Organized by St. Thomas College, Bhilai, 9th–10th December 2010.
8. **National Seminar on “Medicinal Plants—Utilization and Conservation with Special Reference to Herbal State Chhattisgarh”** Sponsored by UGC and CGCOST, organized by Government D.T. College, Utai, Durg, 11th–12th February 2012.
9. **National Workshop on “Mushroom Cultivation and Its Post-Harvest Management”** Sponsored by UGC and organized by Bhilai Mahila Mahavidyalaya, 2nd–5th November 2012.
10. **National Conference on “Biological Sciences in Present Scenario”** Organized by St. Thomas College, Bhilai, 10th–11th October 2012.
11. **National Seminar on “Conservation of Economically Important Endangered Plant Species of Chhattisgarh Region”** Organized by Bhilai Mahila Mahavidyalaya, 25th–26th October 2013.
12. **National Conference on “Prospects of Life Science for Human Welfare with Special Reference to Chhattisgarh”** Sponsored by UGC and CGCOST, Raipur, organized by St. Thomas College, Bhilai, 7th–8th February 2015.
13. **National Seminar on “Energy Harvesting Materials and Techniques for Sustainable Development”** Sponsored by SERB-DST, CREDA, and organized by Government V.Y.T. PG Autonomous College, Durg, 3rd December 2015.

14. **National Workshop on “Emerging Trends of Chemicals in Human Life”**
Organized by Government Dr. W.W. Patankar Girls College, Durg, 6th February 2017.
 15. **International Seminar on “Environmental Issues and Sustainable Development (EIASD)”**
Sponsored by CGCOST, Raipur, and organized by the Department of Zoology, Government V.Y.T. PG Autonomous College, Durg, Chhattisgarh, 2nd–3rd February 2023.
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Workshops and Training Programs

1. **Teacher’s Training Programme in Entrepreneurship for Science and Technology** Sponsored by the Department of Science and Technology, Government of India, and organized by the Centre for Entrepreneurship Development, Madhya Pradesh, 17th–29th July 1995.
2. **Workshop on “Demonstration of DNA Techniques”** Organized by the School of Studies in Biotechnology, Pt. Ravishankar Shukla University, Raipur, 23rd–24th November 2005.
3. **National Workshop on “Quality Enhancement through Innovations in Teaching, Learning, Evaluation, and Implementation of Healthy Practices”** Sponsored by NAAC, Bengaluru, and organized by IQAC, Government V.Y.T. P.G. Autonomous College, Durg, 8th–9th February 2013.
4. **National Workshop on “Importance of Statistics in Life Science”** Sponsored by CGCOST and organized by Swami Shri Swaroopanand Saraswati Mahavidyalaya, Bhilai, 24th–28th February 2015.
5. **National Workshop on “Isolation and Identification of Aerobiomolecules”** Delivered an invited lecture on “Invisible Microorganisms Present in Air.” Sponsored by UGC and organized by Bhilai Mahila Mahavidyalaya, Bhilai.
6. **Workshop on “Green Chemistry and Its Future Prospects”** Sponsored by UGC and organized by Government V.Y.T. P.G. Autonomous College, Durg, 30th November 2015.
7. **Workshop on “Mushroom Cultivation and Its Prospects”** Convener of the workshop organized by Government V.Y.T. P.G. Autonomous College, Durg, 28th September–3rd October 2016.
8. **National Workshop on Emerging Trends of Chemicals in Human Life** Organized by the Department of Chemistry, Government W.W. Patankar Girls P.G. College, Durg, 6th February 2017.
9. **16th Chhattisgarh Young Scientist Congress – 2018** Sponsored by CGCOST, Raipur, and organized by Durg University, Durg, as a member of the organizing committee, 27th–28th February 2018.
10. **Workshop on CRISPR/Cas-9 Technology** Jointly organized by the Indian Institute of Technology, Kharagpur, and the Department of Botany and Biotechnology, Government V.Y.T. P.G. Autonomous College, Durg, 25th–26th February 2019.
11. **Faculty Development Programme on Online Education: Boon for Upliftment of Higher Education Institutes** Organized by Hemchand Yadav University, Durg, and Government V.Y.T. P.G. Autonomous College, Durg, 22nd–31st July 2020.

12. **Faculty Development Programme on ICT** Organized by the Paramarsh Committee and Department of Computer Science in association with IQAC, Government V.Y.T. P.G. Autonomous College, Durg, 11th–12th September 2020.
 13. **Faculty Development Programme on “Meet the Doctor”** Organized by Hemchand Yadav University, Durg, 6th–12th June 2021.
 14. **Virtual Workshop on “Yoga at Home and Yoga with Family: Efficiency of Yoga in COVID-19”** Organized by the Department of Yoga Education and Philosophy in association with IQAC, Government V.Y.T. P.G. Autonomous College, Durg, 18th June–2nd July 2021.
 15. **International Faculty Development Programme on Research and Teaching Methodology** Organized by the Departments of Biotechnology and Chemistry, Government V.Y.T. P.G. Autonomous College, Durg, 5th–11th July 2021.
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Webinars

1. **National Webinar on Prospects and Challenges for Future NAAC Accreditation in Colleges** Organized by IQAC, Government V.Y.T. P.G. Autonomous College, Durg, 14th June 2020.
 2. **National Webinar on Multidimensional Effects of COVID-19** Organized by the Department of Botany, Rajeev Gandhi Government Post Graduate College, Ambikapur, 2nd July 2020.
 3. **National Webinar on Purchase Rules and Write-Off Rules of Chhattisgarh Government** Organized by IQAC, Government E.V. P.G. College, Korba, 29th July 2020.
 4. **National Webinar on Measures to Resurge Indian Economy Aftermath of COVID-19** Organized by the Department of Economics, Government Autonomous Girls P.G. College of Excellence, Sagar, 11th August 2020.
 5. **International Webinar on Analytical Instrumentation in Bio-Chemical Studies and Research** Organized by Gulf Bio Analytical Group of Companies, Dubai, in collaboration with the Departments of Life Sciences and Chemical Sciences, St. Thomas College, Bhilai, 11th–12th September 2020.
 6. **National Webinar on Intellectual Property Rights** Organized by the Department of Biotechnology and IQAC, Government V.Y.T. P.G. Autonomous College, Durg, in collaboration with the Coordination Cell of CGCOST, Raipur, 3rd–5th May 2021.
 7. **National Webinar on Modern Aspects in Botanical Sciences** Organized by the Department of Botany in association with IQAC, Government V.Y.T. P.G. Autonomous College, Durg, 19th–20th May 2021.
 8. **National Webinar on Ecosystem Restoration** Organized by Science Departments under the aegis of the Eco Club and Science Club in association with IQAC, Government V.Y.T. P.G. Autonomous College, Durg, 6th–7th June 2021.
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Other Achievements

1. **National Science Day** Served as a Judge, sponsored by CGCOST, Raipur, and organized by Government W.W. Patankar Girls College, Durg, 28th February 2013.
2. **International Seminar on “Interdisciplinary International Seminar”** Served as Guest of Honour. Sponsored by CGCOST, Raipur, and organized by Swami Shri Swaroopanand Saraswati Mahavidyalaya, Bhilai, 22nd–24th September 2015.
3. **National Conference on “Innovation and Emerging Novel Research in Plant Sciences”** Member of the Organizing Committee. Sponsored by CGCOST, Raipur, and organized by the Department of Botany, Government V.Y.T. P.G. Autonomous College, Durg, 17th–18th January 2023.
4. **National Conference on “Recent Advances in Exploration and Conservation of Wetlands”** Served as Judge. Organized by the Department of Zoology, Government V.Y.T. P.G. Autonomous College, Durg, 5th–6th October 2023.
5. The **Chairperson of the Botany** Study Section under the Faculty of **Life Sciences** at the university was appointed on the recommendation of the Vice-Chancellor for a term of three years starting from **14/07/2020**.
6. Under Section 27(4) of the Chhattisgarh University Act, 1973, the Hon'ble Vice-Chancellor appointed the **Dean of the Faculty of Life Sciences** for a term of three years starting from **04/01/2021**.
7. Under Section 23(1)(ii) of the Chhattisgarh University Act, 1973, the Hon'ble Vice-Chancellor nominated as a **member** of the **Executive Council** from the cadre of Deans. This nomination is valid for a term of three years from the date of issuance of the order **03/02/2021**.