BRIEF PROFILE

:

Name

Dr. (Mrs.)Ranjana Shrivastava

Designation	:	Professor & Head, Department of Botany,
		Govt. V.Y.T.P. G. Autonomous 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 hillsregion 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)
• Mobile	:	9479227004
E-mail Address	:	drranjanashrivastava@gmail.com

Teaching Experience

• Under Graduate	:	39 Years		
Post Graduate	:	35 Years		
Research Experience	:	21 Years		
Recognized Supervisor for				
• Ph.D. {Botany} Guidance	:	4 awarded Ph. D		
• Ph.D. {Microbiology}Guidance: 24/9/2012{2 scholar is working} 2 Ph.D.				
		Awarded		
• Others:				
Two research scholars are awarded Rajiv Gandhi Fellowship				
✤ Membership of the Scientific S	ocieties	:		
Society of Life Sciences {NJLS	& LSB	} : Life member		
Advances in Plant Science		: Life member		
Journal of Basic and Applied M	lycology	: 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. RavishankarShuklaUniversiy, Raipur

Detail of Research (In Brief):

Some major field of research work presently undertaken by me and goingin our laboratory are as mentioned below:-

• Studies on Micro flora Associated with Oil Seeds during Long-TermStorage: Purpose of the study is to determine the presence of phytopathogenicmicroorganism associated with oil seeds to reduce the risk of unacceptablelevels of disease in plant crops that lead to crop loss or to minimize the risk of introduction of a new disease or pathogen strain in a region or country.

- Phenological Studies of Weed Species of Chhattisgarh: One of researchscholar is doing work for analyzing the phenological pattern of weeds, alongdisturbance gradient to understand the response of weed species to climaticfactors and the periodicity of seasons.
- Analysis of Native Medicinal Plants and Their Ecological Status of Chhattisgarh: Our mission is to evident great diversity of flora of the studyarea and a variation in seasonal aspects, so for as the medicinal plants areconcerned.
- Evaluation of Medicinal Plants for Antimicrobial Activity against MDRStrains: We are screening indigenous medicinal plants of District Durg and Rajnandgaon for antimicrobial activity. We have already established somefindings. For this study our research scholars are involved in laboratory.
- Rhizospheric Study of Native Medicinal Plants: One of research scholar isworking on studying the role of secondary metabolites and environmental factors affecting host defences.
- **Biodegradation of Organic Compounds:** Biodegradation of organiccompounds provides a review towards better understanding the biodegradationprocesses for exploitation in bioremediation challenges. Our Research scholarsare involved in work.
- **Bacteriocin Production from** *Lactobacillus* **species:** Our scholars arescreening of *Lactobacillus* sp. for Bacteriocin production. Produced Bacteriocinis further studied for their use as bio-preservative.
- Antimicrobial activity and phycochemical analysis of algae.
- Diversity of aero mycoflora of ACC Jamul factory Area and non polluted area in Jamul, Bhilai.
- Effect of organochlorine pesticides on Actinomycetes Recovered from paraboiled Rice mill effluent.
- Effect of organochlorine pesticides on actinomycetes.
- Impact of urea in plant growth promitingRhizobacteria with reference to rice crop.
- Antimicrobial activity of medicinal plant.
- Antibacterial activity of *Senna alata* from Raipur Chhattisgarh against standard MTCC strains.
- Antibacterial activity of root of *Senna alata* from Ambikapurgainst standard MTCC strains.

Details of Publications:

Published Research Paper (National/ International Journals):-

- Dr. Ranjana Shrivastava (2006). Effect of spacing on foliar incidence of blastdisease. *Research Link* 27, *Vol. V*(2), *April-September: 133*.
- **Ranjana Shrivastava** (2006). Effect of seasons & time of sowing crops on foliarincidence of blast disease in rice. *National Journal of Life Sciences* 3 (3): 481-483.
- Dr. Ranjana Shrivastava (2006). Assessment of potentiality of *Nelumbo*cultivation under central plains of Chhattisgarh. *Research Link* 32, *Vol. V*(7),*September-November:* 30.
- Mrs. GayatriPandey, **Dr. Ranjana Shrivastava**, Mrs.Shubha Gupta (2006).Preliminary study of avenue trees of steel city (Bhilai). *Research Link 32, Vol. –V (7), September-November: 28.*
- **Ranjana Shrivastava**, DeepikaMahobiya&NishantMeshram (2009).Mycoflora associated with soybean seeds. *Life Science Bulletin* 6 (2): 163-165.
- KomalJimnani, NishantMeshram&**Ranjana Shrivastava** (Sep.2009).Hydrocarbon Utilization by Bacteria as a Sole Source of Carbon. *InternationalResearch Journal Research Analysis and Evaluation* I (1): 5-11.
- NishantMeshram, KomalJimnani&**Ranjana Shrivastava** (2009). Screening ofBacteria for the Biodegradation of Different Hydrocarbons. *Life Science Bulletin* 6(3): 315-318.
- NishantMeshram, KomalJimnani&**Ranjana Shrivastava** (2010). Screening ofFungus for the Biodegradation of Different Hydrocarbons. *Life Science Bulletin* 7(1): 47-48.
- E.P. Chelak, **Ranjana Shrivastava**, A.K. Shrivastava and A.C. Verma(2010). Characterization of Ground Water for Human Activity Zones of Dongargarh City(Chhattisgarh). *International Research Journal Lab to Land* 2 (7): 354-357.
- E. P. Chelak, **Ranjana Shrivastava** and A.K. Shrivastava (2011). Floristic diversity of Dongargarh hill range, Chhattisgarh. *International Research Journal Lab to Land* 3(9).
- E. P. Chelak, **Ranjana Shrivastava**, A.K. Shrivastava and BhawnaPandey(2011). Water Quality Assessment of Ground Water Resources in Dongargarh City(Chhattisgarh) Based on WQI. *International Research Journal Lab to Land* 3(9).
- **Ranjana Shrivastava**, Akanchha Singh and NishantMeshram (2011). Detection of seed Borne Fungi in Soybean by Different Incubation Methods. *International Research Journal Lab to Land 3*(12), 519-521.

- Yalini Sahu, NishantMeshram, G. S. Thakur & **Ranjana Shrivastava** (2011). Ecological Status of Medicinal Plants of Durg Nagar Nigam Area; Chhattisgarh. *Advances in Plant Sciences* 24(II), 621-632.
- MeenakshiBharadwaj, Ranjana Shrivastava and A.K. Shrivastava (2011). Aeromycofloral Diversity of St. Thomas College, Bhilai. Published in Proceedings of National Conference on "Climatic change & its Effect on Biodiversity" held at Bhilai, Chhattisgarh during 5th 6th Feb; 2011.
- E. P. Chelak, **Ranjana Shrivastava** and A. K. Shrivastava (2011). PhysiochemicalCharacterization in two ponds of Dongargarh City (Chhattisgarh). . Published in Proceedings of National Conference on "Climatic change & its Effect on Biodiversity" held at Bhilai,Chhattisgarh during 5th – 6th Feb; 2011.
- Charulata Philip, **Ranjana Shrivastava**, BhawanaPandey and A.K. Shrivastava (2011).Biodiversity and Biochemical Properties of Genus *Micromonospora*Recovered FromGelatin Factory. Published in Proceedings of National Conference on "Climaticchange & its Effect on Biodiversity" held at Bhilai, Chhattisgarh during 5th 6th Feb;2011.
- A.K. Shrivastava,NiharikaDewangan, **Ranjana Shrivastava** and BhawanaChandrakar(2012).Isolation and Characterization of plant growth promoting Rhizobacteria associated with *Vitexnegundo*. *Life Science Bulletin* 9(1):197-199.
- MeenakshiBharadwaj, **Ranjana Shrivastava**, A.K. Shrivastava (2012). Seasonal variation of algal Biodiversity from the three fresh water ponds of Bhilai, India. ISBN 978-81-202-8869-7, pp.89-95.
- SeemaVerma, **Dr. (Mrs.) Ranjana Shrivastava** and Dr. Deepak Karkun.(2012).Ethanomedicinal plants and its effect on public health.*Journal of Pharmaceutical and Biomedical Health Journal of pharmaceutical and Biomedical Sciences21* (22):1-4.
- Bhawana Thakur, SeemaVerma, **Dr. (Mrs.) Ranjana Shrivastava** and Dr. Deepak Karkun(2013).Ethanobotanical Plant Diversity in Mainpur Block, District Gariaband, Chhattisgarh, India. *International Journal of Innovative Research and Studies June* (2013). 2 (6): 11-24.
- SeemaVerma, Bhawana Thakur, **Dr.** (**Mrs.**) **Ranjana Shrivastava** and Dr. Deepak Karkun(2013). Studies of Airomycoflora of District and Session Court of Durg, Chhattisgarh. *Journal of Biological Innovation* 2(4):146-151.
- NishantMeshram, **Dr. (Mrs.) Ranjana Shrivastava** (2013). Scientific validation exploring traditional knowledge of Indian culture. *International Journal of Traditional Knowledge*. (*Communicated*).

- MeenakshiBharadwaj, Awdhesh Kumar Shrivastava, **RanjanaSrivastava**. (2014)Phycochemical Analysis of Two Members of Order Zygnematales, *International journal of Geology, Agriculture and Environmental Sciences*, Vol. 2(2), 27-30.
- MeenakshiBharadwaj, Awdhesh Kumar Shrivastava, **RanjanaSrivastava**. (2014)Phycochemical and antimicrobial study of vigorous fresh water alga *Mougeotia*. Int. J. Curr. Microbiol. App. Sci. 3(4): 1020-1024
- NiharikaDewangan, **Dr. (Mrs.) Ranjana Shrivastava**, Dr. A.K. Shrivastava and Vibha Sahu. (2014). Isolation and Characterization of PGPR Rice rhizosphere for phosphate solubilization.
- Akanchha Singh, Nishant Mehram, **Ranjana Srivastava**, (2014) Acute Human Lethal Toxicity Effects Of Some Pesticide Families, *Jr. of Industrial Pollution Control*, issue No. (2).
- Awadhesh Kumar Shrivastava, MeenakshiBharadwaj and **Ranjana Shrivastava** (2014). Algal Biodiversity in Fresh water Reservoir of Durg. *Indian Journal of Scientific Research*. 4(1): 121-126
- Charulata Philip, A.K. Shrivastava and **Ranjana Shrivastava** (2014). Effect of Organochlorine Pesticide on growth of Actinomyceties. *Indian Journal of Scientific Research*. 4(1): 121-126
- BharadwajMeenakshi, Shrivastava A. K., Shrivastava Ranjana(2014) Antibacterial and Antifungal Activity of Mougeotia. *International Jr. of Basic and Applied Science Research* 1(1) 54-57.
- DeepikaMahobiya and **Ranjana Shrivastava** (2015).Production, optimization and characterization of broad spectrum bacteriocins from Lactobacillus plantarum DP2 and Lactobacillus casai DD1. *Research Journal Pharmaceutical Biological and Chemical Sciences* 6(2):738-747.
- Shrivastava, R. (2015). Diversity of Actinomycetes in parboiled rice mill effluent. IOSR Journal of Environmental Science, Toxicology and Food Technology, 9,
- Shrivastava R., Dewangan, N. and 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.
- Shrivastava, R. (2015). Co-inoculation of *Azotobacter* and *Pseudomonas* to improve growth of rice (*Oryza sativum*). Society for promotion of tropical biodiversity, Jabalpur, **23** (1) 98-101.
- 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.

- Shrivastava, R. (2017). In vitro evaluation of antimicrobial activity of *Tecomastans* and *Vitexnegundo Indian Journal of Scientific Research* e-ISSN: 2250-0138 p-ISSN: 0976-2876.
- Dewangan, N., Mishra, A., **Shrivastava**, **R**., and Shrivastava, A.,(2017). Study of antibacterial property of *Nirgundi*leaves *Flora and Fauna*ISSN: 0971-6920.
- Dewangan, N., Shrivastava, R., and Shrivastava, A.,(2017). *Invitro*Evaluation of antibacterial activities of *Tecomastans*and*Vitexnegundo*. *Indian Journal of Scientific research*;p-ISSN: 0976-2876E-ISSN: 2250-0138.
- Sharma, P., Roymon, M.G. and Shrivastava, R. (2017). Antibacterial activity of root of *Senna alata* from Ambikapurgainst standard MTCC strains *Indian Journal of Scientific Research*; e-ISSN: 2250-0138 P-ISSN: 0976-2876.
- Sharma, P., Shrivastava, R. and Roymon, M.G. (2017). Antibacterial activity of *Senna alata* from Raipur Chhattisgarh against standard MTCC strains*Flora and Fauna*; ISSN: 0971-6920.
- Dewangan, N., **Shrivastava, R**., and Anwer, S., (2020). Role of *Pseudomonas species* as biofertilizer and biocontrol agent *International Journal of Innovative Research in Multidiciplinary field*;ISSN:2455-0620
- Prasad D., Shrivastava R., Akram W, Rajwade S. K. and Nirmalkar D. (2022), Preliminary phytochemical screening of successive reextraction of *Moringa oleifera* leaves. *Int. Journal of Novel Research and Development;* 7(10): b297-301.
- Prasad D., **Shrivastava R** and 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 Print 2319 1775 Online 2320 7876.
- Sahu, L., Shrivastava, R., (2022), Review: Role of microorganism in petroleum hydrocarbon degradation. *InternationalJournal of enhanced Research in Science*, *Technology & Engeeniaring*; ISSN: 2319-7463.
- Sahu, L., **Shrivastava, R.,** (2022), to estimate the physiochemical properties and bacterial strains isolation of petroleum hydrocarbon contaminated soil from various automobile workshops. *International Journal of current science*; ISSN: 2250-1770.
- 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.

• Sahu, L., Shrivastava, R., (2022), Characterization of biosurfactant produced by hydrocarbon-degrading Bacteria *Acinetobactorjunii* isolated from petroleum hydrocarbon-contaminated soil. Bulletin of Environmental, Pharmacology and Life Sciences; 12(1): 110-117. ISSN 2277-1808.

Publication of Books/Articles :-

• NishantMeshram, KomalJimnani&**Ranjana Shrivastava** "PetroleumHydrocarbon Products Utilization by some Micro-organisms". **SustainableMangement& Conservation Biodiversity.**Editor: B.N. Pandey, Shivesh P.Singh &Rashmi Singh; Pages: 221 - 230.

Published/Presented Research Paper/Abstract :--(National/ International Conferences,

Seminars & Symposiums)

- **Dr. Ranjana Shrivastava** (1996). Pollution Due to De-Forestation & Coal Mining inTribal Area at Bisrampur: Ambikapur M.P. To be presented in National Seminar held at Ambikapur, Madhya Pradesh during 1996.
- **Dr. Ranjana Shrivastava** (2006). Possibility of Nelumbo Cultivation under Central Plans of Chhattisgarh. To be presented in National Conference on "Plant Diversity &its Conservation" held at Bhilai, Chhattisgarh during Nov 11, 2006.
- **Ranjana Shrivastava** & GayatriPanndey(2011). Diversity of Seed Borne Mycoflorain Soybean (*Glycine max* (L) Merril) Published in Proceedings of National Seminaron "Biodiversity Conservation and its Socio-Economic Significance" held atAmbikapur, Chhattisgarh during 28th Feb – 1st Mar; 2011.
- **Ranjana Shrivastava**, NishantMeshram&Akanchha Singh (2011). Effect ofClimatic Change on Phenological Studies of Some Weed Species. Published inProceedings of National Conference on "Climatic change & its Effect onBiodiversity" held at Bhilai, Chhattisgarh during 5th 6th Feb; 2011.
- MeenakshiBharadwaj, **Ranjana Shrivastava** and A. K. Shrivastava (2011). Aeromycofloral diversity of St.Thomas College, Bhilai. Published in Proceedings of National Conference on "Climate Change and its Effect on Biodiversity" held at Bhilai, Chhattisgarh during 5th and 6th Feb; 2011.
- E.P. Chelak, **Ranjana Shrivastava**, A.K. Shrivastava and BhawanaPandey(*2011*).Floristic Diversity Of Dongargarh Hill Range, Chhattisgarh. Published in Proceedingsof National Conference on "Climatic change & its Effect on Biodiversity" held atBhilai, Chhattisgarh during 5th 6th Feb; 2011.
- E.P. Chelak, **Ranjana Shrivastava** and A. K. Shrivastava (2011). PhysiochemicalCharacterization in Two Ponds of Dongargarh City under Biotic Stress.

Published inProceedings of National Conference on "Climatic change & its Effect onBiodiversity" held at Bhilai, Chhattisgarh during 5th – 6th Feb; 2011.

- Charulata Philip, Ranjana Shrivastava, BhawanaPandey and A. K. Shrivastava (2011). Biodiversity and biochemical properties of Genus *Micromonospora*Recovered from Gelatin Factory. Published in Proceedings of National Conference on "Climatic change & its Effect on Biodiversity" held at Bhilai, Chhattisgarh during 5th – 6th Feb; 2011.
- Daneshwar Prasad, Shama A. BaigRanjana Shrivastava, (2022), An Overview on Ethnomedicinal Properties of *Moringa oleifera* for Management of Sickle Cell Anaemia. International e-Conference on Recent Advances in Biological Sciences & Opportunities in Entrepreneurship. Held in Pt. RavishankarShukla University Raipur C.G. during7th- 8th January; 2022.
- Daneshwar Prasad, Ranjana Shrivastava, (2022), "Preliminary phytochemical analysis of *Carica papaya* leaf Extract" in 12th National Conference on "Emerging Materials & Nanotechnology", In Association with Indian Association of Solid-State Chemist and Allied Scientists (ISCAS), Jammu, Organized by the Department of Chemistry, Govt. V.Y.T. PG. Autonomous College, Durg, Chhattisgarh, India. during 18th&19th November; 2022.
- Daneshwar Prasad, Ranjana Shrivastava, (2023), "Study of Antisickling activity of *Moringa oleifera* leaves extracts" in National Conference on "Innovation and Emerging Novel Research in Plant Sciences", Sponsored by CGCOST, Raipur, Chhattisgarh, Organized by the Department of Botany, Govt. V.Y.T. PG. Autonomous College, Durg, Chhattisgarh, India; during 17th& 18th January; 2023.
- Daneshwar Prasad, **Ranjana Shrivastava**, (2023), "Antisickling Potential of an Unripe Fruit Extract of *Carica papaya*" in International Conference on "Environmental Issue and Sustainable Development (EIASD)", Sponsored by CGCOST, Raipur, Chhattisgarh, Organized by the Department of Zoology, Govt. V.Y.T. PG. Autonomous College, Durg, Chhattisgarh, India; during 2nd&3rd February; 2023.
- Daneshwar Prasad, **Ranjana Shrivastava**, (2023), "Bioactive compounds estimation of different solvent system of Carica papaya unripend fruit extracts" in 1st International Conference on "Role of Applied Sciences in Social Implications (IC-RASSI)", Sponsored by Autonomous Examination Cell, JanbhagidariSamiti& Chhattisgarh Environment Conservation Board, Organized by the Faculty of Science, Govt. Digvijay Autonomous PG College, Rajnandgaon, Chhattisgarh, India; during 6th& 8th February; 2023.
- Daneshwar Prasad, **Ranjana Shrivastava**, (2023), "Antisickling Potential of *Carica papaya* Leaves Extracts" in National Seminar on "Current Trends and Prospects in Botany", Sponsored by CGCOST, Raipur, Chhattisgarh, Organized by the Department of Botany, Govt. Nagarjuna Post Graduate College of Science, Raipur, Chhattisgarh, India; 16th&17thFebruary; 2023.

 Daneshwar Prasad, Ranjana Shrivastava, (2023), "National Science Day" on the theme "Global Well-being" Celebration – 2023, In Collaboration with CGCOST, Raipur & NCST, Department of Science & Technology, Govt. of India, organized by SSSS Mahavidyalaya, Hudaco, Bhilai, Durg, Won 1st Prize ; during 22nd to 28th February; 2023.

> Paper Presented

- Research Seminar on "Pollution due to Deforestation and Coal-mining", sponsored by Department of Higher Education, M.P.Government organized by Government Post Graduate College, Ambikapur, 14th and 15th February, 1994.
- National Conference on "Plant Diversity and its Conservation" organized by St. Thomas College, Bhilai, 11th and 12th November, 2005.
- National Conference on "Climate Change and its Effect on Biodiversity" sponsored by UGC organized by BhilaiMahilaMahavidyalaya, Bhilai, 5th and 6th February 2011.
- National Seminar on "Biodiversity Conservation and its Socio-Economic Significance" sponsored by UGC organized by Rajiv Gandhi Govt. P.G.College, Ambikapur, 28th February and 1st March 2011.
- 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.
- National Seminar on "Modern Pioneering Trends of Environmental Management with reference to Waste Management" oral presentation on "Biodegradation of Pesticides" sponsored by CGCOST Raipur, organized by GD Rungta College of Science & Technology, Bhilai, 18th & 19th February 2015.
- International Seminar on "Interdisciplinary International Seminar" sponsored by CGCOST Raipur, presented paper on "Combined application of Azotobacter and urea to improve growth of rice (*Oryza sativa*) organized bySwami ShriSwaroopanandSaraswatiMahavidyalaya, Bhilai, 22nd to 24th September 2015.
- National Seminar on Present Scenario in Phytomicrobial Aspects Benificial to Mankind. Deptt. Of Botany & Microbiology, Govt. W.W. Patankar Girls P.G. College, Durg (C.G.) 27-28 January 2017.

> Attended

- National Science Day 2006 Seminar sponsored by Chhattisgarh Council of Science and Technology, 27th April 2006.
- National seminar on "Environmental Issues and Economic Development" sponsored by UGC organized by Dr. RadhaBai Govt. NavinKanyaMahavidyalaya, Raipur, 5th January, 2007
- 14th National Conference on Aerobiology organized by School of Studies in Biotechnology, Pt. RavishankarShukla University, Raipur, 15th to 17th January 2007.

- National Conference on "Species Diversity: Measurement, Magnitude, gradients, uses and Conservation" sponsored by UGC organized by Govt. Kamala Devi Mahavidyalaya, Rajnandgaon, 26th and 27thFebruary 2008.
- National Seminar on "Botanical Researches: Present Scenario and Future Prospects" organized by Govt. College of Science, Raipur, 29th and 30th January 2008.
- National Seminar on "Physiology and Molecular Biology of Stress in Plants" organized by St. Thomas College, Bhilai, 19th December, 2009.
- National Conference on "Frontiers of New Biology" organized by St. Thomas College, Bhilai, 9th and 10th December, 2010.
- National Seminar on "Medicinal Plants-Utilization and Conservation with special reference to herbal state Chhattisgarh" sponsored by UGC and CG-COST organized by Govt. D.T.College,Utai, Durg, 11th and 12th February 2012.
- National Workshop on "Mushroom Cultivation and Its post Harvest Management" sponsored by UGC a organized by BhilaiMahilaMahavidyalaya, 2nd to 5th November 2012.
- National Conference on "Biological Sciences in Present Scenario" organized by St. Thomas College, Bhilai, 10th and 11th October, 2012.
- National Seminar on "Conservation of Economically Important Endangered Plant Species of Chhattisgarh Region" organized by BhilaiMahilaMahavidyalaya, on 25th and 26th October, 2013.
- National Conference on "Prospects of Life Science for Human Welfare with special Reference to Chhattisgarh" Sponsored by UGC and organized by CGCOST Raipur on 7th and 8th February 2015.
- National seminar on "Energy Harvesting materials and Techniques for Sustainable Development" sponsored by SERB – DST, CREDA, র্জ্রা 2015, organized by Govt. V.Y.T.PG. Autonomous College, Durg, 3rd December 2015.
- National Workshop "Emerging Trends of Chemicals in Human Life ",organized by Govt. Dr. W.W. Patankar Girls College, Durg from 06 Feb 2017.
- International Seminar on "Environmental Issue and Sustainable Development (EIASD)", Sponsored by CGCOST, Raipur, Chhattisgarh, Organized by the Department of Zoology, Govt. V.Y.T. PG. Autonomous College, Durg, Chhattisgarh, India 2nd&3rd February, 2023.

Workshops and Training Programme

- Teacher's Training Programme in Entrepreneurship for Science and Technology sponsored by Department of Science and Technology, Govt. of India organized by Centre for Entrepreneurship Development, Madhya Pradesh, from 17th July to 29th July,1995.
- Workshop on "Demonstration of DNA Techniques" by School of Studies in Biotechnology, Pt. RavishankarShukla University, Raipur (C.G.) on 23rd and 24th November 2005.
- National Workshop on "Quality enhancement through innovations in Teaching, Learning, Evaluation and Implementation of healthy Practices" sponsored by NAAC, Bangaluru, organized by IQAC Govt. V.Y.T.P.G.Autonomous College, Durg, 8th and 9th February 2013.
- National Workshop on "Importance of Statistics in Life Science" sponsored by CGCOST organized by Swami ShriSwaroopanandSaraswatiMahavidyalaya, Bhilai, 24th to 28th February 2015.
- National Workshop on "Isolation and identification of aerobiomolecules" delivered an **invited lecture** entitled "Invisible microorganism present in air" sponsored by UGC, organized by BhilaiMahilaMahavidyalaya, Bhilai.
- Workshop on "Green Chemistry and its future prospects" sponsored by UGC, organized by Govt. V.Y.T.PG. Autonomous College, Durg, 30th November 2015.
- Workshop on "Mushroom Cultivation and its Prospects" **Convenor** of the workshop, organized by Govt. V.Y.T.PG. Autonomous College, Durg, 28th September to 3rd October 2016.
- National Workshop on Emerging Trends of Chemicals in Human Life. Deptt. Of Chemistry, Govt. W.W. Patankar Girls P.G. College, Durg (C.G.) 06 February 2017
- 16th Chhattisgarh Young Scientist Congress- 2018 sponsored by CCOST, Raipur organized by Durg University, Durg as a member of Organizing committee from 27-28 February 2018.
- Workshop on CRISPER/Cas-9 Technology jointly organized by Indian Institute of Technology, Kharagpur&Deptt. Of Botany and Biotechnology, Govt. V. Y. T. P.G. Auto. College, Durg from 25th – 26th February, 2019.
- Faculty Development Programme on Online Education: Boon for Upliftment of Higher Education Institutes Hemchand Yadav University, Durg (C.G.) & Govt. V.Y.T. P.G. Auto. College, Durg (C.G.) 22-31 July 2020.

- Faculty Development Programme on ICT Paramarsh Committee and Department of Computer Science in Association IQAC, Govt. V.Y.T. P.G. Auto. College, Durg (C.G.) 11-12 September 2020.
- Faculty Development Programme on Meet The Doctor Hemchand Yadav University, Durg (C.G.) 06-12 June 2021.
- Virtual Workshop on Yoga at Home and Yoga with Family Efficiency of Yoga in Covid-19 Deptt. Of Yoga Education and Philosophy in Association with IQAC, Govt. V.Y.T. P.G. Auto. College, Durg (C.G.) 18 June to 02 July 2021.
- International Faculty Development Programme on Research and Teaching Methodology Deptt. Biotechnology and Chemistry, Govt. V.Y.T. P.G. Auto. College, Durg (C.G.) 05-11 July 2021.

> Webinars

- National Webinar on Prospects and Challenges for future NAAC Accreditation in Colleges IQAC, Govt. V.Y.T. P.G. Auto. College, Durg (C.G.) 14 June 2020.
- National Webinar on Multidimensional effect of Covid-19 Botany, Rajeev Gandhi Govt.
 Post Graduate College, Ambikapur (C.G.) India 02 July 2020.
- National Webinar on Purchase Rules and Write-Off Rules of Chhattisgarh Government IQAC, Govt. E.V. P.G. College, Korba (C.G.) 29 July 2020.
- National Webinar on Measures to Resurgence of Indian Economy Aftermath of Covid-19 Deptt. Economics, Govt. Auto. Girls P.G. College of Excellence, Sagar (M.P.) 11 August 2020.
- International Webinar on Analytical Instrumentation on Bio-Chemical Studies and Research Gulf Bio Analytical Group of Companies, Dubai and Life science and Chemical Science Deptt. St. Thomas College, Bhilai (C.G.) India 11-12 September 2020.
- National Webinar on Intellectual Property Rights Deptt. Biotechnology and IQAC Govt.
 V.Y.T. P.G. Auto. College, Durg (C.G.) with Collaboration Coordination Cell Of Chhattisgarh Council of Science & Technologies, Raipur (C.G.) 03-05 May 2021.
- National Webinar on Modern Aspects in Botanical Sciences Deptt. Botany, in Association with IQAC, Govt. V.Y.T. P.G. Auto. College, Durg (C.G.) 19-20 May 2021.

 National Webinar on Ecosystem Restoration Science Departments under the aegis of Eco Club, Science Club and IQAC, Govt. V.Y.T. P.G. Auto. College, Durg (C.G.) 06-07 June 2021.

> Other Achievement

- National Science Day, "Judge" sponsored by CGCOST, Raipur, C.G., organized by Govt.
 Dr. W.W. Patankar Girl's College, Durg (C.G.), 28th February 2013.
- International Seminar on "Interdisciplinary International Seminar" "**Guest of Honour**" sponsored by CGCOST Raipur, organized by Swami ShriSwaroopanandSaraswatiMahavidyalaya, Bhilai, 22nd to 24th September 2015.
- National Conference on "Innovation and Emerging Novel Research in Plant Sciences", "Organizing Committee Member"Sponsored by CGCOST, Raipur, Chhattisgarh, Organized by the Department of Botany, Govt. V.Y.T. PG. Autonomous College, Durg, Chhattisgarh, India (17-18 January, 2023).
- National Conference on "Recent Advances in Exploration and Conservation of Wetlands", "Judge" Organized by Department of Zoology, Govt. V.Y.T. PG Autonomous College, Durg, Chhattisgarh, India. 5th& 6th October, 2023.