

Dr. Shobha Shouche

M.Sc. M.Phil., Ph.D. FASEA, FMANU, FVMS

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Dr. Shobha Shouche is an Associate Professor of Zoology at Govt. Madhav Vigyan Mahavidyalaya, Ujjain (M.P.). She also serves as the Coordinator of Bioinformatics Department, Madhav Vigyan Mahavidyalaya.

TEACHING EXPERIENCE

Dr. Shouche has been a teacher for over 36 years at UG and PG level with over 21 years of research experience. Under her guidance, three students have been awarded Ph.D., and three more are currently pursuing Ph.D. Her areas of interest include Physiology, Toxicology, Entomology, Sericulture & Microbiology.

RESEARCH INTEREST

Toxicology, Environmental Microbiology & Entomology, and Basics of Bioinformatics

RESEARCH PUBLICATION

- COVID-19 upsurge and cause of second wave in Ujjain district M.P. India. Published in **International Journal of Interdisciplinary Cycle Research**. Volume 13 Issue 6, ISSN: 0022-1945. Jun 2021. [Impact Factor- 6.2]. UGC care Approved Group- II journal.
- Outbreak of Deadly COVID-19 Second Wave in Rising Temperature in India and its Complications After Recovery. Published in **International Journal of Interdisciplinary Educational Research**. Volume 10 Issue 5 (1), ISSN: 2277-7881. May 2021. [Impact Factor- 6.2].
- Comparative Analysis about the Changes in Physical Parameters during Ecofriendly Degradation of Floral Wastes via Composting and Vermicomposting and their effect on *Capsicum frutescens*. Published in **Science, Technology and Development Journal**, Volume 10, issue 5 (1), ISSN: 0950-0707. May 2021. [Impact Factor- 6.2].
- Impact of Climate Change: An Analysis of Transmission and Pattern of Infection of COVID-19 Pandemic with the Change of Weather with Special Reference to Ujjain District (M.P.). Published in **International Journal of Science and Research (IJSR)**, Volume 10, issue 4, ISSN: 2319-7064. Apr 2021.
- The effective tool to convert floral waste into the black gold: The Vermicompost. Published in **Research Review International Journal of Multidisciplinary**, Volume 6, Issue 2, ISSN: 2455-3085. Feb 2021. [Impact Factor- 5.16].
- Assessment of microflora from fresh vermicompost derived from eco-friendly degradation of floral waste. Published in **International Journal of Interdisciplinary Cycle Research**, Volume XIII, Issue 3, ISSN: 0022-1945. Mar 2021. [Impact Factor- 6.2].
- A survey of COVID-19: The pattern of corona pandemic in Ujjain district (M.P) India before and after Deepawali festival. Published in **PARIPEX - Indian Journal of Research (PIJR)**, Volume 10, Issue 3, ISSN: 2250-1991. Mar 2021. [Impact Factor- 6.7].

- In-silico study of 5 alpha-reductase (5-AR) active site prediction and interaction with supernatural compound II. Published in **International journal for Environmental Rehabilitation and Conservation**, Volume 11, Issue 11 (sp2), ISSN: 0975-6272. Sep 2020. [Impact Factor- 4.25].
- Effect of temperatures on the growth of floral waste degrading fungi. Published in **Fungal Territory**, ISSN: 2644-4569. 2019. [Impact Factor- 4.62].
- Potential of Actinomycetes as Bioremediating And Biocontrolling Agents. Published in **PARIPEX - Indian Journal of Research (PIJR)**, Volume8, ISSN: 2250-1991, Issue1. Jan 2019. [Impact Factor- 6.76]
- Distribution and composition of butterfly species of the soya been plant campus, Ujjain M.P. Published in **International journal of Advanced Research in Biological Sciences**, Volume5, Issue4, ISSN: 2348-8069. 4 May 2018. [Impact Factor- 4.6]
- Diversity and richness of butterfly from Government Madhav Science College Ujjain M.P. India Published in **Journal of Entomology and Zoology Studies**, Volume 6, Issue 2. 4 Feb 2018. [Impact Factor- 2.83]
- Prevalence and Antimicrobial susceptibility of nasal carriage of Staphylococcus aureus in anganwaris children in Ujjain (M.P.) Published in **European Journal of Biomedical and Pharmaceutical Sciences** volume 5, issue 2. Feb 2018. [Impact Factor: 4.39]
- Article – “Bioinformatics and Horticulture”. Published in **Horticulture International Journal** Volume2, Issue 1. 22 Jan 2018.
- Computer aided drug design: A paradigm shift to rational drug design (a case study of Alzheimer’s drug intepirdine failure), Published in **International Journal of Engineering Technologies and Management Research**, 4 (12 SE), 13-18.
- “Molecular screening of some antiviral compounds against four viral diseases H1N1, chikungunya, Ebola and Dengue”. Published in **International Journal of Researches in Biosciences, Agriculture & Technology**, Volume 5, ISSN NO.2347-517X, special issue (2). July 2017.
- “A Proteomic analysis of haemolymph of *Philosamia ricini* during temperature and food stress” published in **IOSR Journal of Biotechnology and Biochemistry**. June 2017.
- Comparative study of soil mixed vermicompost and cattle dunk on the growth parameters of *Triticum astivum* (wheat) *Faciolus mungo* (urad) published in **American Research Journal of Agriculture**. Vol.3, issue 1, ISSN (online): 2378-9018. June 2017.
- Role of certain Biochemical in maintenance of Osmotic balance in *Philosamia ricini* during Starvation Published in **International Journal for Environmental Rehabilitation and Conservation** Vol. 7 No.2016 (81-85). Dec 2016.
- Changes in biochemical composition in the haemolymph of fifth instar larvae of *Philosamia ricini* during thermal stress. Published **Int. J. of Current Research and Review**. Vol. 8 (Issue 20). Oct 2016.
- Impact of starvation on worms and ionic composition of hemolymph of *Philosamia ricini* published in **Biolife** Vol. IV (2) pp 382-385 June2016.
- Thermal stress induced ionic changes in *Philosamia ricini* with spl ref to fifth instant larva. Published in **IOSR J. of Pharmacy & Biological Science** ISSN 2278-3008, P-ISSN 2319-7676 Vol 11 issue 3 Ver 1 (May-Jun 2016).
- Photonics technology, Application and its economic impact published in **Int. J. of Advances in sciences and technology** Vol. 10 Issue No. 21, Feb. 2016, Issn 2230-9659.
- A checklist of Butterflies from Vikram vatika Ujjain, Madhya Pradesh An International journal of Biology and life sciences.ISSN: 2320-4257 VOL.4 10 Jan. 2016. Global Science Publication. [Impact Factor: 4.175]

- Construction and Analysis of Myopathy and Parkinson disease protein network Published in **International Journal of Current Research and Review** vol.7 24 Dec. 2015. [Impact Factor: 4.016]
- Butterfly Fauna in Four sites of Ujjain city Madhya Pradesh, India. Published in **International Journal of Biological Research and Development (IJBRD)** ISSN(P): 2250-0022: ISSN(E): Vol.5, Issue 2, Dec 2015, 1-4.
- Social problems and environment published in **International Journal of Research** – Granthalaya ISSN (o) 2350-0530 ISSN (P) 2394-3629 Vol. 3 issue 9 September 2015. (Impact Factor 2.035).
- Comparative Alignment of Ribosomal Sequence of the Floral Waste Degrading Fungi: A Way to Establish the Evolutionary Correlation. Published in **International Journal of Research Studies in Biosciences (IJRSB)** Volume 3, Issue 5, May 2015, PP 171-178, ISSN 2349-0357 (Print) & ISSN 2349-0365 (Online). [Impact Factor: 2.991]
- Importance of Bioinformatics in BioSciences. Published in **Kshipra Research Journal** Vol I (2) Sept. 2015, ISSN 2395-5333.
- Fungal Identification method by rDNA sequence analysis: Molecular approach to reveal the role of microbial community in vermin composting. Published in **IOSR Journal of Biotechnology and Biochemistry** Volume 1, Issue2, March- April 2015.
- Identification of Targetable Virulence Factor and Drug Screening for Bacterial Pneumonia in IOSR JPBS. Published in **IOSR Journal of Pharmacy and Biological Sciences** Volume 10 Issue1, Version 3, 1 Jan. Feb 2015. [Impact Factor: 1.138]
- Molecular Docking Studies of SHC1 Protein: A Drug Target to Treat Obesity. Published in **IOSR Journal of Pharmacy and Biological Sciences** e-ISSN: 2278-3008, p-ISSN: 2319-7676. Volume 9, Issue 6 Ver. III (Nov -Dec. 2014), PP 63-68. [Impact Factor: 1.138].
- Strategic Implementation of Site-specific Crop Management in Indian agriculture for Biodiversity Conservation. Published in **ESSENCE Int. J. for Environment** July 2014.
- Recycling Waste into Valuable Organic Fertilizer: Vermicomposting published in **International Journal of Researches in Biosciences, Agriculture & Technology** in May 2014, Issue 2, and Volume-II. ISSN No. (Online) 2347-517X.
- Mycobiota of Decomposing Floral Waste Materials, Published in **Asian Journal of Microbiology, Biotechnology and Environmental Sciences**, Vol. 16, No. (2), 2014, 181-186 Global Science Publication ISSN – 0972-3005.
- Prevalence & Risk factor for nasal carriage of *S. aureus* in children attending Anganwaries (pre-schools) in Ujjain city, published in **Bio-med Central Research**, 9 July 2013.
- Chapter 24 Tiny Civic Bombs and Environmental pollution: A survey Report of Ujjain City, M.P., India. Published by biotech books New Delhi 2013 in **Sustainable Approaches for environmental Conservation** p.p. 181-285. ISBN No. 978-81-7622-280-8.
- Impact of Flacherie Disease on the Total and Differential Haemocyte Count of *Philosamia ricini* Published by biotech books New Delhi 2013 in **Environmental Biotechnology** page no. 297-301.
- A new method for transfer of fungal inoculums. **Int. J. Microbial Reso. Techno.** Vol. 1 issue 4 Dec. 2012.
- Impact of Media Composition on the growth of flower composting fungi accepted in **Environ. Conserv. J.** Dec. 2012.
- Effect of pH on the growth of floral degrading fungi in vitro. Eco-revolution 2012. **Bionano Frontier Special issue** - 9 pg.233-235. Aug.2012.

- Effect of changes in physical parameter during vermicomposting of floral waste – **Int. J of Environmental Research** Vol.5 No.4 July Sept. 2011.
- Biodiversity & Sustainable development through Ericulture. 2010.
- IQAC - a Boon to quality education - 2009
- Impact of Parasites on the haemogram of SPHERODERMA RUSTICUM FABIS (Heteroptera) **Int.J Pharmacol. Biol, Sci**, Vol. 3CI) 2009, 55-58
- Language problem in classroom teaching – EPCP - 2008
- Oxidative stress & antioxidant – 2007
- Cardiac Toxicity of technical Hexachlorocyclohexane (HCH) in mice. **J Advance Zool** 1998 (2). 69-73
- Technical Hexachlorocyclohexane (HCH) induced histopathological changes in mice Trachea and lung following acute intermediate & Chronic Exposure. **Ind. J of Occup Hlt**vol 40(4) Oct – Dec. 1997
- Haematological effects of Hexachlorocyclohexane (HCH) in mice – result & possibilities. **Ind. J. of Medical Science** Vol (51) (4) April 1997
- Haematological & Cardiac effects of Hexachlorocyclohexane (HCH) in mice. **Thi J. Toxicology** 11-12, 18-22, 1995-1996
- Early changes in mice Blood, Serum enzyme, Heart Lung & Trachea following Acute Toxicity of Hexachlorocyclohexane (HCH). **Ind. J of Occup Hlt** Vol 38 (3). July 1995.

BOOKS PUBLISHED

NIL

CHAPTERS IN BOOKS

- Chapter 24 Tiny Civic Bombs and Environmental pollution: A survey Report of Ujjain City, M.P., India. Published by biotech books New Delhi 2013 in **Sustainable Approaches for environmental Conservation** p.p. 181-285.ISBN No. 978-81-7622-280-8.
- Impact of Flacherie Disease on the Total and Differential Haemocyte Count of *Philosamia ricini* Published by biotech books New Delhi 2013 in Environmental Biotechnology page no. 297-301.

AWARDS/ ACHIEVEMENTS

- Received **Certificate of Participation** in the Drug Discovery Hackathon (DDH) 2020, a joint initiative of AICTE, CSIR, Ministry of Education's Innovation Cell and supported by Office of Principal Scientific Advisor, Govt. of India, NIC and MyGov.
- Reviewer of **Bioinfo Publications** (Membership ID CBA217505050) since 18 Aug 2015.
- Member of editorial board/reviewer, **International Journal of Research in Bioscience & Agriculture Technology (IJRBAT)** [↗](#)
- Member of editorial board/reviewer, **Journal of Applied Biotechnology and Bioengineering (JABB)** [↗](#)
- Received **Eminent Researcher Award** for outstanding contribution in the field of science at International Conference on Recent Trends in Science and Technology **ICRTS July 12-14, 2017 Nagpur**.
- Member of Central Board of Studies Zoology **High Education MP** 2017.

- **Appointed as a subject Expert under 28 code (Zoology)** Vikram University, Ujjain 2014-16.
- **D.R.C. Member** (Zoology), Vikram University, Ujjain. 2014-15.
- **VC Nominee** of Examination committee. Vikram University. 2013-15.
- Member of **BOS** (Zoology/ Biotechnology/Bioinformatics Vikram University 2013-15.
- Chaired the session as a co-chairperson in national seminar held at Govt. Kalidas Girls lead college Ujjain from 29-30 March 2016 sponsored by UGC CRO Bhopal.
- Worked as resource person in national seminar on light and light-based technology sponsored by MPCST and organized by Govt. P.G. College Ujjain during 1st-2nd Mar 2016.
- Worked as **Resource Person** in National seminar on Social Issues and Environmental Problems held at Govt. Girls' P.G College Ujjain M.P. during 19th-20th Sep 2015.
- Worked as a Co-coordinator for Personality Development Cell at Govt. Madhav Science College and for this received an award from Higher Education Department, M.P.
- Worked as **Resource Person** in National seminar on *Crystallography and Its Applications* held at Govt. Girls' P.G College Ujjain M.P during 25th-26th Sep 2014
- **Best paper presentation award in International Conference on sciences of technology for society** at Bangkok- May 2014
- Chaired the session as **Chairperson** at 1st International Conference on sciences of technology for society at Bangkok during 23-25 May 2014
- Chaired the session as **Chairperson** at 6th International Congress of Environmental Research held at Aurangabad during 19-21st Dec 2013
- Chaired the session as **Co-Chairperson** of world Congress 2012 in *Sevadal Mahila Mahavidyalaya* Nagpur 3rd-5th Nov 2012
- Chaired the session as **Chairperson** of **National Seminar** in Hawabagh College, Jabalpur on 6 Oct 2010
- **Chairperson Madhya Pradesh Women Congress- II** Organized Shakti Vigyan Bhartiya & Govt. M.V.M. Ujjain. 22nd-23rd Dec 2011
- **Best Teacher** Award 2010-11 from Vidyarthi Vikas Munch, Ujjain
- **Best Teacher** Award 2009-10 from Lions Club, Ujjain
- Received **TRF** in 1994 from **UGC**
- Received **JRF** in 1983 from **CSIR**
- Received **National Scholarship** from Higher Secondary onwards up to M.Sc.

SUBJECT RELATED ACTIVITY

FACULTY DEVELOPMENT PROGRAM (FDP)

- Participated in FDP on "Research Article Writing and Online Academic Presentation" organized by Govt. Girls' Degree College, Ujjain and N.A.S. (Bhopal Chapter). 17 – 23 Aug 2020.
- Participated in FDP on "Future Technology in Post COVID Era" organized by Govt. Madhav Science College, Ujjain. 1 – 7 Jul 2020.

GUEST LECTURERS

- Delivered web lecture on "Biology: For the Welfare of Mankind" organized by SMS Govt. Model Science College, Gwalior, M.P. on 11 Jan 2021.
- Delivered lecture on "Impact of Environment on Human Health and Wildlife" conducted by Govt. College Kaytha Distt. Ujjain on 27-28 Jul 2020.
- Delivered lecture on Nucleosome and packaging of DNA in Govt. Girls P.G. College Ujjain on 15/09/17.
- Delivered lecture on Development of Rural Woman through Sericulture in Mandsaur university Mandsaur on 3rd Feb. 2017.
- Delivered lecture on Biodiversity and conservation in Govt. P.G. college Agar-Malwa, M.P. on 01/10/2015.
- Delivered lecture on "Woman Empowerment" at Advanced Science and Commerce College Ujjain M.P. on 17.09.2014
- Delivered lecture on Wildlife in Future Vision College, Ujjain, M.P. on 12.04.2011
- Biodiversity - Sustainable development through Ericulture - 6th Oct 2010 in national seminar organized by Hawabagh College Jabalpur (M.P.)
- Wildlife & its conservation – Guest lecturer in a workshop organized by Vigyan Bharti for school teachers – 2009, Ujjain

INTERNATIONAL SEMINARS/ WEBINARS/ CONFERENCES

- Attended international webinar on "Role of Science & Technology in Global Health and Food Security" organized by Zoology & Biotechnology Deptt. & Science Committee, Govt. Girls' P.G. College, Ujjain, M.P. on 1 – 3 March 2021.
- Attended international e-Conference on "COVID-19: Global Impact" conducted by African British Journal on 20 – 21 Jul 2020.
- Attended international webinar on "Nitrogen Fixing Bio-fertilizer through Diazotrophic Bio Films and Synthetic Biology" conducted by M I T University, Mandsaur on 20 Jul 2020.
- Paper presented in **International Conference on Recent advances in life sciences for betterment of environment and human health on "In silico study of 5 alpha reductase active site prediction and interaction with supernatural compound II"** Organized by the Govt. Holkar Science College, Indore on Dec 14-15, 2019.
- Paper presented in **International Conference** on use of ICT in developing effectiveness of teaching skill for teacher in higher education of pyronocrome: synthesis and biological application held on 30 Jul 2018 organized by Govt. P.G. nodal college, Sehore.
- Paper presented in **International Conference on Recent Trends in Science and Technology: Sustainable development through scientific approach (ICRTS - 2017)** organized by **Shri Shiwaji Education Society Amravati's Science College Nagpur** on July 12-14, 2017 on Molecular Screening of some antiviral compound against four viral proteins H1N1, Chikungunya, Ebola and Dengue.
- Paper presented in **International Seminar** on Empowerment through education, Ethics and entrepreneurship (IC-4E) Organized by the MIT Mandsaur in association with UNESCO Network chair on 3rd and 4th Feb. 2017.
- Paper presented in **International Congress on Scientific Innovation and Intellectual Property Laws: The Interface during 18-20 Sep 2014**. Entitled IPR In Nanotechnology

- Paper presented in **International Conference on sciences of technology for society at Bangkok during 23-25 May 2014**. Entitled Recycling waste into Valuable organic fertilizer
- Paper presented in **6thInternational Congress of Environmental Research (ICER-2013)** held at Aurangabad during 19-21st Dec 2013 entitled on "An Integrative OMICS Strategy for Identification of Cardiovascular Disease biomarker"
- Paper presented in the **International Conference organized by Eco Needs Foundation at Pokhara, Nepal** from 29th Sept. to 1st Oct.2013 entitled on "Management of Floral Waste by Vermicomposting Process"
- Paper presented in the **IInd World Congress 2012 for Man & Nature** – Global climate change and Biodiversity 2012 organized by Sevadal Mahila Mahavidyalaya Sakkardara, Nagpur, Maharashtra 3rd-5th Nov. 2012. Entitled on "Rearing performance of *Philosomia ricini* with special reference to Ujjain district"
- Attended **4th International Congress Environmental Research ICER 2011** organized By SVNIT, Surat, Gujarat 15-17 Dec. 2011
- Paper presented in **World Congress for Man and Nature - Global Climate Chang and Biodiversity 2011** Conservation Organized by Gurukul Kangri Vishwavidyalaya, Haridwar. Uttrakhand on 11-13, Nov 2011 entitled on "Impact of media Composition on the Growth of Fungi"
- Paper presentation in **International seminar on environmental research ICER-2010** organized by University of Mauritius Sept 2010

NATIONAL SEMINARS/ WEBINARS/ CONFERENCES

- Attended national webinar on "Ecosystem Restoration" organized by Govt. Madhav Science P.G. College, Ujjain on 5 Jun 2021.
- Attended national web-based conversation on "Drug Development Process from Lab to Market" organized by Govt. Madhav Science P.G. College, Ujjain on 22 May 2021.
- Attended national lecture on "Mahatma and Women Empowerment" conducted by Govt. Madhav Science College, Ujjain on 23-24 Nov 2020.
- Attended national lecture on "Chemistry for Clean Air, Blue Sky and Clean Water" conducted by Govt. Madhav Science College, Ujjain on 07 Sep 2020.
- Attended national lecture on "Gender Equity to Gender Equality" conducted by Govt. Madhav Science College, Ujjain on 30 Jul 2020.
- Attended webinar on "Biodiversity, Conservation and its Management" conducted by Govt. Girls Degree College Ujjain and ZSI on 15-16 Jul 2020.
- Attended academic lecture on "Crafts of Scientific Writing" conducted by Govt. Madhav Science College, Ujjain on 09-10 Jul 2020.
- Attended academic lecture on "Economics and Ecology" conducted by Govt. Madhav Science College, Ujjain on 08 Jul 2020.
- Attended webinar on "COVID-19: Immunopathology, Clinical Manifestations and Therapeutic Measurements " conducted by Govt. Madhav Science College, Ujjain on 30 Jun - 1 Jul 2020.
- Attended story telling session on "My Second Master" conducted by Govt. Madhav Science College, Ujjain on 28 Jun 2020.

- Attended national webinar on "A Healthy approach towards Future" conducted by Govt. Holkar Science College, Indore on 21-22 Jun 2020.
- Attended webinar on "Protecting your International Property Right" conducted by Govt. Madhav Science College, Ujjain on 16 Jun 2020.
- Attended webinar on "Challenges of Sustainable Development: An Inclusive Approach with special reference to Covid Era" conducted by Govt. Madhav Science College, Ujjain on 05 Jun 2020.
- Attended webinar on "Basic Concept of Zoology and Environment" conducted by Aadarsh Institute of Management and Science, Dhamnod, Indore and ZSI on 27-28 May 2020.
- Paper presented in nation conference on New Frontiers in Science: A Paradigm Shift to Policy Planning organized by Govt. Madhav Science College Ujjain, 1-3 Dec 2017.
- Paper presented in national conference on ecological Imbalance: A Threat to flora, Fauna, Economy and Human Human Survival (EITFES 2017) organized by vigyan parishad Auditorium, Allahabad 22-23 September 2017(U.P.)
- Paper presented in national seminar on Strategies for sustainable use of land water air agriculture and energy resources organized by Govt. Kalidas Girls College, Ujjain on 29-30 March 2016. Sponsored by UGC CRO Bhopal.
- Paper presented in national consortium on "From Photonics to Economic Impact of Light" organized by Govt. M.V.M. Ujjain sponsored by MPCST Bhopal on 28 Feb. 2016.
- Attended and presented a paper on social problem and environment on September 19-20 March-2015 sponsored by UGC CRO Bhopal organized by govt. girls P.G. College Ujjain.
- Attended and presented a paper on molecular modeling and docking studies on tyrosine phosphate *1b, a noble therapeutic drug target for obesity –in silico analysis.*
- Research paper Presented in National Research Conference on Present status of Law in social world held at National book trust India, Shri Hindi Sahitya Samiti, Indore M.P. on 8 Feb. 2015.
- Paper presented in National seminar on Crystallography and Its Applications held at Govt. Girls' P.G College Ujjain M.P during 25-26 Sep 2014. Entitled Comparative Modeling of Trigger Factor Protein–An In-Silico Approach Based on X-Ray Crystallography Swiss Model Server.
- Paper presented in National Conference on Indian Environmentalism and Developmental Issues held at Govt. Madhav Science College Ujjain during March 3rd& 4th 2014 entitled River Water Pollution Causes – An Analytical Study.
- Paper presented in National Conference on Contributions of Ramanujan in Mathematics and its Applications in mathematical Sciences held at Govt. Madhav Science College Ujjain on 6-7 March 2014 entitled Mock Theta Ramanujans "Cost Notebook"
- National seminars on chemistry – A Modern of innovative tool organized by Govt. M.V.M. Ujjain March 2011.
- Paper presented in National Conference on Biodiversity Conservation: Problems of prospect sponsored by UGC organized by Hawabagh College. Jabalpur Oct. 2010 & Chaired the session.
- National Seminar "Quest for Quality Use of Innovative Practices" organized by Govt. Model Science collage, Jabalpur Feb 2009.
- Paper Presented in National seminar on Green Technologies for Sustainable Development. 2nd Bharatiya Vigyan Sammelon, Indore (M.P.) 2009.

- National seminars on EPCP (Educational Publication of Consumer Welfare) sponsored by Indian Institute Public Administration New Delhi of organized by Govt. Model College (Gwalior) Dec.2008
- Paper presented in National conference on “Frontiers of Research in Chemical Science” sponsored by UGC organized by Govt. Madhav Vigyan Mahavidyalaya, Ujjain Feb. 2007.
- National conference on opportunities & Challenges of Tourism in India Sponsored by UGC organized by Govt. P.G. college, Mandsaur Oct.2004

STATE LEVEL SEMINARS/ WEBINARS/ CONFERENCES

- Attended webinar on "Constitution Day - संविधान के मूल्य एवं सिद्धांत" conducted by Department of Higher Education, Bhopal, M.P. on 26 Nov 2020.
- Participated one day Seminar on 29 Feb. 2015 Entitled Current Ecological and Environmental Issue's Organized by IQAC and R&D Cell of Govt. Madhav science Collage
- Seminar on "अनावृष्टि के परिप्रेक्ष्य में वर्तमान जल प्रबंधन" sponsored by Department of Higher Education, Feb. 2003 organized by govt. P.G. College Mandsaur.

WORKSHOPS & TRAINING

- Organized 2 Day workshop on Biodiversity Conservation: Need and Strategies on 1-2 February 2018, Sponsored by School of studies in Environmental Management, Vikram University Ujjain M.P.
- Organized 2 Day workshop on Protein-Protein Interaction on 9-10 March 2017 Sponsored by IQAC, NAAC and Department of Higher education M.P.
- Workshop Organized as a Convener on Personality Development through Social Services in collaboration with NSS unit of Govt. M.V.M. Ujjain on 13 Jan 2017.
- Workshop organized and attended as a Convener on drug discovery technology conducted by discovery group of India in collaboration with department of bioinformatics Biotechnology and Chemistry from 08-12 Sept. 2016.
- Workshop attended on next generation sequencing organized by MPCOST Bhopal sponsored by DST NEW Delhi on 15-17 March 2016 at Bhopal.
- 3 Day workshop Organized on Personality Development on 3 - 5 Aug 2016.
- Workshop organized and attended as a Convener on Basics of Bioinformatics sponsored by UGC –CRO Bhopal on 10-12 sep. 2015.
- Workshop attended an awareness workshop on mysterious world of snakes sponsored by IQAC and R&D cell organized by the department of Zoology, Microbiology Bioinformatics and 14 Mar 2015
- Workshop attended at Indore on “**Fresh Water fish culture and identification of fishes**” organized by Govt. Holkar Science College Indore. Held on 13-14 March 2014
- Workshop attended at Indore on “Standardization of Question Paper & Formation Of Question Bank” Organized by **UGC- ACADEMIC STAFF COLLEGE DAVV** Indore. From 01/08/2013 to 06/08/2013
- Workshop attended at Mandsaur on “Capacity Building of Higher Education Sensitivity/ Awareness/ Motivation”. Sponsored by **UGC** and Organized by **Govt. P.G. College, Mandsaur** (Vikram University, Ujjain, M.P.) on 18-22 Feb 2013

- Workshop on Immunological experiment sponsored by **MPCST** organized by Holkar Science College, Indore (M.P.)
- Workshop organized by **Forest Department**, Ujjain 2010
- Workshop on Rights to Information organized by **Naronha Academy** Bhopal 2010
- Workshop on application of modern instrument sponsored by **MPCST** organized by KalidasGirls college, Ujjain. Feb. 2008

MAJOR SOCIAL ENGAGEMENTS

- Member of *Bruhan Maharashtra Mandal*

TEACHING LEARNING PEDAGOGY

OFFLINE MODE

- Chalk – duster on Blackboard
- Explaining through models and charts
- Presentations using projector
- Seminars & Workshops
- Teaching notes & books

ONLINE MODE

- Educational videos
- Webinars
- Lectures via Zoom, Google Meet, Google Classroom
- Power point etc.