

CURRICULUM VITAE

<u>Office Address</u> Associate- Professor, Department of Zoology, V. V. M's S. G. Patil Arts, Science & Commerce College, Sakri, Dist : Dhulia. Pin - 424304 (M.S.). Phone: 02568242323	<u>Permanent Address</u> Saraansh"16, sushila Nagar, Sakri, Dist. Dhulia Pin - 424304 (MS) Email: sspatole63@gmail.com Email: sspatole63@rediffmail.com Mobile: +91-9421885464, +91-9766804023. Phone: 02568240355.	
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Personal Details

Name	DR. SHATRUGHNA SUKDEO PATOLE
Date of Birth	1 st May 1963.
Nationality	Indian
Marital status	Married
Category	S. C.
Present Post	Associate Professor, Department of Zoology.
Date of Appointment	27/07/1987.
Scale of Pay and Present Pay	AGP- 9000/-
Present Address	16, "Saraansh" SushilaNagar, Sakri, Dist. Dhulia 424304 (MS)
Mobile No.	+91-9421885464
E-Mail	sspatole63@gmail.com
Teaching Experience	26 years (U.G.)
Research Experience	20 years
Languages Known	Marathi, Hindi, and English.

Educational Qualification

Exam. Passed	Name of The University	Year of Passing	Class	Subject
B. Sc.	University of Pune, Pune	April 1985	Distinc	Zoology
M. Sc.	University of Pune, Pune	April 1987	First	Zoology
M.Phil.	North Maharashtra Univ., Jalgaon.	Oct 1995	A grade	Zoology
Ph.D.	North Maharashtra Univ., Jalgaon.	Aug 2007	--	Zoology
C. C. C. O	M.S.B.T.E., Mumbai	1999	First	computer

M. Phil/ Ph.D. Research Topic

- M. Phil: Dissertation title “**Studies on fish toxicants of plant origin**”.
- Ph. D. Thesis title “**Evaluation of indigenous plants for their biological activities with special reference to insecticides**”

Guide: Dr. R. T. Mahajan, HOD, Zoology Department, M. J. College, Jalgaon.

Orientation and Refresher courses attended

Sr. No.	Name of the A. S. College	Duration
1	Academic Staff College University of Pune.	06/09 to 03/10/1989
2	Academic Staff College University of Pune.	01-12 to 28-12-1994
3	Academic Staff College, Kashmir (Jammu).	05-04 to 25-04-1997
4	Banarus Hindu University, Varanasi (U. P.)	06-11 to 26-11-1997
5	Himachal Pradesh University, Shimla (H. P.)	02-04 to 21-04-2001

Research Project

Research Project Completed (4)

1. Minor Research Project entitled “**A Survey of Insect Crop Pests From Sakri Taluka, An Agricultural Study**”. University Grant Commission WRO Ganeshkhind, Pune, (Ref. No. F. 47-77/2003 (WRO) 19th February 2004). Grant sanctioned Rs 31000 /- (**Work as Principal investigator**).
2. MRP entitled “**The taxonomical survey and food value of fresh water fishes from Sakri taluka**”. University Grant Commission WRO Ganeshkhind Pune, (Ref. No. F. 47-192/ 07 (WRO) July 18, 2008. Grant sanctioned Rs 65000 /- (**Work as Principal investigator**).
3. MRP entitled “**Ethanomedicinal Survey and Antimicrobial Study of Indigenous Plants from Charanmal Ghat of Sakri Tahsil (Dhule District)**”. (Ref. No. F. 47-339/ 07 (WRO) March 12, 2008. Grant sanctioned Rs 75,000 /- (**Work as Co-investigator**).
4. MRP entitled “**Utility of Weeds of Crop Field in Controlling Some of the Vegetable Crop Diseases in Sakri Tahsil (Dist- Dhule).**” (Ref. No. F. 47-1187/09). April 2013. Grant sanctioned Rs 1,00,000/- (**Work as Co-investigator**)

Research Project ongoing (01)

MRP entitled “**Biodiversity, Nutritional importance and Haematological values of riverine fishes from Dhulia and Nandurbar Dist. of Maha**” . Ref: File No. 47-359/ 12 (WRO) dated 25 Feb 2013. Grant Sanctioned: 1,20,000/-

Published Research Papers

1. **R. T. Mahajan and S. S. Patole:**Effect of plant extracts on oxygen consumption rate in fish: *Naemacheilus evezardi* (Day). *J. Fresh water Biol.* 15 (1-4): 109-113. 2003.
2. **S. S. Patole and R. T. Mahajan:** Effect of aqueous extract of the leaves of the *Cestrum nocturnum* (Linn) on Histomorphological changes in gill of Fish: *Naemacheilus evezardi* (Day). *J. Aqua. Biol.*19 (2): 135-140. 2004.
3. **Patole, S. S. and R. T. Mahajan:** In *Vitro* haemolytic activity of some Ichthyotoxic indigenous plants. *J. Comp. Toxicol Physiol.* Vol. 1 (3&4): 216-224, 2004.

4. **S. S. Patole and R. T. Mahajan:** Phytotoxicity in fishes. *Advances in fish Research*. IV: 299-312. (ed.) J. S. Datta Munshi and H. R. Singh. *Narendra Publishing House*, New Delhi. 2006.
5. **S. S. Patole and R. T. Mahajan:** Histomorphological changes in stomach and liver of *Naemacheilus evezardi* (Day) on acute exposure of aqueous extract of leaves of *Cestrum nocturnum* (Linn). *Uttar Pradesh J. Zool.* 26 (1): 09-15. 2006.
6. **Patole, S. S. and Mahajan, R. T.:** Ichthyotoxic activity of some indigenous plants against fish *Lepidocephalichthys guntea* (Ham-Buch). *Indian J. Aqua. Biol.* 21(1): 168-172. 2006.
7. **Patole, S. S. and Mahajan, R. T. :** Stupefying activities of some Solanaceous plants in fish, *Lebistus reticulatus* (Peters). *J. Aqua. Biol.* Vol 22(1): 223-228. 2007.
8. **S. S. Patole and R. T. Mahajan:** Evaluation of some indigenous plants of Khandesh region as Mosquito larvicides.. *Him. J. Env. Zool.* Vol. 21 (2): 257-264. 2007.
9. **S. S. Patole, M. Z. Chopda and R. T. Mahajan:** Biocidal activities of a common weed, *Sphaeranthus indicus* Linn. *Uttar Pradesh J. Zool.* 28(1): 67-72. 2008.
10. **Patole, S. S. and Mahajan, R. T.:**Antibacterial activity of some indigenous plants against two bacterial species. *Research Link – 51* Vol- VII (4): 16-18. 2008.
11. **Patole, S. S. and Mahajan, R. T.:** Efficacy of some indigenous plant powders as post harvest protectants of greengram seed against pulse beetle, *callosobruchus chinensis* linn (coleoptera: bruchidae). *J. Eco-friendly Agric.* 3(2):138-141. 2008.
12. **Patole, S. S. Manisha Patil and Mahajan, R. T. :** Studies on metabolic changes during intoxication by phytotoxicants in fish: *Nemacheilus evezardi* Day. *Int. J. Pharmacol. Biol. Sci.* Vol 2(2): 63-68, 2008.
13. **S. S. Patole and R. T. Mahajan:** Acute Toxicity of Some Indigenous Plants against Pulse Beetle, *Callosobruchus Chinensis* Linn (Coleoptera: Bruchidae)” *Indian J. Environ & Ecoplan* Vol 15 (1-2): 265-268, 2008.
14. **S. S. Patole and R. T. Mahajan:** Repellent and Antifeedant Properties of *Cestrum nocturnum* against Red flour beetle: *Tribolium castaneum* (Herbst). *Nat. J. Life Sciences* Vol 5(1): 19-22, 2008.
15. **S. S. Patole and R. T. Mahajan:** Impact of Plant Powders as Greengram Seed Protectants: Nutritional Quality Assessment. *Indian J. Agric. Biochem.* 21 (1 & 2): 27- 30, 2008.
16. **Patole, S. S. and Mahajan, R. T.:** Ovicidal and Ovipositional repellency activity of extracts of Neem and Gorakhmundi against pulse beetle,

- Callosobruchus chinensis* (Coleoptera: Bruchidae) Linn. *Research Link*- 62 (3): 10-13, 2009.
17. **S. S. Patole:** Ovipositional Responses of the Pulse Beetle, *Callosobruchus Chinensis* L. (Coleoptera: Bruchidae) to Solvent Extracts of Neem and Gorakhamundi. *J. Env. Bio-Sci.* Vol. 23(1): 63-67, 2009.
 18. **Patole, S. S. and Mahajan, R. T.:** Comparative efficacy of Neem and Gorakhamundi extracts as adult emergence against pulse beetle, *Callosobruchus Chinensis* L. *Int. J. Pharmacol. Biol. Sci.* Vol 3(3): 49-54, 2009.
 19. **Patole, S. S. and Manisha Patil:** A note on Ichthyofauna of Panzara River (Tah. Sakri) of Dhule district of Maharashtra. *J. Aqua. Biol.* 24 (2): 61-66, 2009.
 20. **S. S. Patole and R. T. Mahajan:** Efficacy of some plant extracts against mosquito larvae. *Pesticide Research Journal* Vol 21(1): 13-15, 2009.
 21. **S. S. Patole and R. T. Mahajan:** Preliminary antimicrobial screening of sixty indigenous plants from Khandesh Region, Maharashtra. *Uttar Pradesh J. Zool*, 30(3): 287-292, 2009.
 22. **Patole, S. S. and Mahajan, R. T.:** Comparative Efficacy of Solvent Extracts of Neem and Mundi against Pulse Beetle, *Callosobruchus chinensis* Linn. *J. Adv. Sci. & Technol.* Vol 12 (1 & 2): 212-215, 2009.
 23. **Patole, S. S. and Mahajan, R. T. :**Molluscicidal properties of *Cestrum* spp. against freshwater snail: *Lymnea accuminata* Linn. *Int. Res. J. Analy and Eval*, Vol 1(3&4): 58-61, 2009.
 24. **Patole, S. S., More, B. C. and Mahajan, R. T.:** HPTLC Profile of Solvent extracts of Neem and Gorakhamundi. *Int. J. Pharmacol. Biol. Sci* Vol 4(2): 115-120, 2010.
 25. **S. S. Patole and B. C. More:** Biodiversity of Fresh Water Fishes from Sakri-Tahsil (Dist- Dhulia) Of Maharashtra. *Research Link*- 75, Vol IX (4): 15-17, 2010.
 26. **S. S. Patole:** Persistent toxicidal efficacy of Neem and Gorakhamundi against *Callosobruchus chinensis* Linn. *J. Eco-friendly Agric.*, Vol 4(2): 155-158, 2010.
 27. **S. S. Patole:** Freshwater Ichthyofauna of Kan and Burai Rivers of Sakri Tahsil (District- Dhule) of Maharashtra. *Uttar Pradesh J Zool.* 30(2): 213-219, 2010.
 28. **S. K. Patil and S. S. Patole:** Ethno-Medicinal Studies from Charanmal Ghat of Sakri Tahsil., Dhulia (M.S.). *Life Sci Bull* Vol 7(1): 17 – 20, 2010.
 29. **Nandre, Y. M. , More, B. C. and Patole, S. S.:**Non-Biopharmacological Approach to Control Hypertension by Yoga. *Int. J. Res. analy and Eval.* Vol 1(8): 36-39, 2010.
 30. **M. Z. Chopda, S. S. Patole and R. T. Mahajan:** Wound healing activity of *Sphaeranthus indicus* (Linn) in Albino rats. *Bioresources for Rural Livelihood.* (Edi): G. K. Kulkarni, B. N. Pandey and B. D. Joshi., Narendra Publishing House, New Delhi. 1: 239-244, 2010.

31. **More, B. C. Y. M. Nandre and S. S. Patole:** Studies on dietary influence on the population of Epigeic Species of Earthworm, *Eisenia Foetida*” *J. Env. Bio-Sci.* Vol 24(1): 35-37, 2010.
32. **S. S. Patole:** Efficacy of *Azadirachta* and *Sphaeranthus* in the management of Pulse beetle, *Callosobruchus chinensis* L. in greengram. *J. Eco-friendly Agric;* Vol. 6(1):41-44, 2011.
33. **S. S. Patole and B. C. More:** Studies on Recycling of Agricultural waste by Earthworm, *Eisenia foetida* for sustainable Development of environment. *J. Env. Bio-Sci.* Vol 25 (1): 139-142, 2011.
34. **S. S. Patole and B. C. More:** Efficacy of some medicinal plants against the pulse beetle, *Callosobruchus chinensis* L. (Coleoptera: Bruchidae). Infesting Bengal gram (*Cicer arietinum*) Seed. *Uttar Pradesh J. Zool.* 31(3): 275-279, 2011.
35. **M. U. Patil and S. S. Patole:** Studies on effect of insecticides on oxygen consumption of fresh water fish, *Lepidocephalichthys guntea* (Ham-Buch). *Ecology and Fisheries*, 4(2): 29-32, 2011.
36. **S. S. Patole, S. K. Patil and M. H. Shaikh:** Antimicrobial potential of some plant extracts of Charanmal ghat, Dist- Dhule (M. S.). *J. Adv. Sci & Technol.* 13(3): 69-72, 2010.
37. **More B. C. and Patole, S. S.:** Eco-friendly Vermicomposting and management of water hyacinth by using earthworms. *J. Res. & Dev.* 2(3): 7-11, 2012.
38. **Patil, M. U. and Patole, S. S.:**Effect of Malathion and Cypermethrin on biochemical constituents of freshwater fish, *Lepidocephalichthys guntea* (Ham-Buch). *Int. jour. Shodh, Samiksha aur Mulyankan.* Vol 4 (39):33-35, 2012.
39. **Patole, S. S.:**Studies on nutritional values of some freshwater fish of riverine system from Sakri tahsil of Dhulia District (M.S.). *Int. Jour. Reser. Analy. And evaluation.* Vol- 3(31): 52-53, 2012.
40. **S. S. Patole:** Studies on *in vitro* screening of some medicinal plant extracts for their antimicrobial activities. *Uttar Pradesh J. Zoo.* 32(2):237-241, 2012.
41. **S. S. Patole and Manisha Patil:** Studies on Physico-Chemical qualities of drinking water from Wadibhokar Village of Dhulia District (M. S.). *The Ecotech* 42(2): 169-172, 2012.
42. **More, B. C. and Patole, S. S.:** Bioaccumulation of heavy metals thorough earthworms from water hyacinth (*Eichornia crassifles* Solm) contaminated vermicompost. *J. Environ. Res. Develop.* 7(2A):1047-1050, 2012.
43. **S. S. Patole :**Screening of some indigenous plants for their insecticidal activity against stored grain pest *Callosobruchus chinensis* Linn. *J. Eco friendly Agric.* 8(1): 71-73, 2013.
44. **B. C. More and S. S. Patole:** Eco-friendly management of bio-wastes by using earthworm, *Eisenia foetida*. *Uttar Pradesh J. Zool.* 33(1): 51-56, 2013.

Book published

1. A reference book entitled PHYTOTOXICANTS published by MJP Publishers, Chennai. (2010).
2. Text book for F. Y. B. Sc. Zoology (Semester - I). Paper- I: Animal Diversity of Non- chordates and Paper- II: Pest Management. (2010).
3. A Text book of ZOOLOGY (Zoo :121- Diversity of Chordates) for F. Y. B. Sc. (Semester – II, Paper- I) (2010).
4. A Text book of ZOOLOGY (Zoo:122- Apiculture) for F. Y. B. Sc. (Semester – II, Paper- II). (2011).
5. A Text book of Zoology (Zoo 211: Functional Anatomy of Non-chordates). S. Y. B.Sc. Semester- I, Paper-I (2011).
6. A Text book of Zoology (Zoo 212: Applied Cytogenetics). S. Y. B.Sc. Semester- I, Paper-II. (2011).
7. A Text book of Zoology (Zoo 221: Functional Anatomy of Chordates). S. Y. B.Sc. Semester- II, Paper-I.(2011).
8. A Text book of Zoology (Zoo 222: Medical Zoology). S. Y. B.Sc. Semester- II, Paper-II. (2011).
9. A Text book of Zoology (Zoo 111: Non-chordates -I). F. Y. B.Sc. Semester- I, Paper- I. (2012).
10. A Text book of Zoology (Zoo 112: Parasitology). F. Y. B.Sc. Semester- I, Paper-II. (2012).
11. Zoology Practical Handbook. F. Y. B. Sc. Zoo 103. (2012).
12. Published A Text book of ZOOLOGY (Zoo: 121- Chordates-I) for F. Y. B. Sc. (Semester –II, Paper- I). (2012).
13. Published A Text book of ZOOLOGY (Zoo: 122- Ecology) for F. Y. B. Sc. (Sem– II, Paper- II). (2012).

Research papers presented in National & International Conferences

- 1 Effect of plant extracts on Oxygen consumption Rate in fish: *Naemacheilus evezardi* (Day). Abstract published in the proceeding of section of Plant Sciences. Abstract No. 101, p. 89. 90th Indian Science Congress, Bangalore. Jan. 3-7, 2003.
- 2 Studies on metabolic changes on intoxication by plant extracts in fish: *Naemacheilus evezardi* (Day). Abstract published in the proceeding of Animal, Veterinary and Fishery Sciences. Abstract No. 87, p 85. 91st Indian Science Congress, Punjab University, Chandigarh. Jan. 3-7, 2004.
- 3 Histomorphological changes in stomach and liver of *Naemacheilus evezardi* (Day). On acute exposure of aqueous extracts of leaves of *Cestrum nocturnum* (Linn). Abstract published in the proceeding of Animal, Veterinary and Fishery Sciences. Abstract No. 114, pp 76-77. 92nd Indian Science Congress, Nirma University, Ahmedabad. Jan. 3-7, 2005.
- 4 In *vitro* haemolytic activity of some Ichthyotoxic Indigenous plants. Abstract published in the proceeding of Animal, Veterinary and Fishery Sciences. Late Abstract No. 1, pp. 23-24. 92nd Indian Science Congress, Nirma University, Ahmedabad. Jan. 3-7, 2005.
- 5 Research paper presented on “In *vitro* haemolytic activity of some Ichthyotoxic indigenous plants” C. V. Raman Memorial Seminar (RMS-2005). Abstract-Life Sciences, PL-5, pp. 33. Organized by North Maharashtra University, Jalgaon. Feb. 28, 2005.
- 6 Prospectives of Eco-friendly botanicals as pesticides of tomorrow: An overview. Abstract published (Poster display) in the proceeding of National Conference on Recent Trends in Synthetic organic Chemistry (RTSOC-2005). Organized by School of Chemical Sciences, North Maharashtra University, Jalgaon. Abstract p. No. 40. Dec. 16-17, 2005.
- 7 Ichthyotoxic activity of some indigenous plants against fish: *Lepidocephalichthys guntea* (Ham-Buch). Abstract published in the proceeding of Animal, Veterinary and Fishery Sciences. Abstract No. 20, pp 14-15, 93rd Indian Science Congress, Acharya N. G. Ranga Agricultural University, Hyderabad. Jan. 3-7, 2006.
- 8 Studies on some biological activities of a common weed plant: *Sphaeranthus indicus* Linn. Abstract published in the proceeding of the 93rd Indian Science Congress, Hyderabad. Jan. 3-7, 2006. Part IV (Late Abstract No. 1, Pp 1-2). In section of Animal, Veterinary and Fishery Sciences.

- 9 Paper (Poster) presentation “Study of Antimicrobial activity of herbal plant extracts from Khandesh region”. National Symposium on Interdisciplinary Science in Pharmacy at Smt. Sharad Chandrika S. Patil Pharmacy College, Chopda, Dist-Jalgaon. Feb. 24-25, 2006. Abstract no. PG. 10 p. 68.
- 10 Research paper presented on “Biocidal activity of common weed: *Sphaeranthus indicus* Linn”. C. V. Raman Memorial Seminar (RMS-2006). Abstract- Life Sciences, PL-5, p. 33. Organized by North Maharashtra University, Jalgaon. Feb. 28, 2006.
- 11 Research paper entitled “Ichthyotoxic properties of some Solanaceous plants in Fish: *Lebistus reticulatus* (Peters)” poster presented at 94th Indian Science Congress, Chidambaram (Tamilnadu). Jan, 3-7, 2007. In the section Animal, Veterinary and Fishery Sciences. Abstract No. 294, pp. 235-236.
- 12 Paper (Poster) presented entitled “Wound healing plants of Khandesh Region (M.S.) at 94th Indian Science Congress, Chidambaram (Tamilnadu). Jan, 3-7, 2007. In the Section Plant Sciences. Abstract No. 274, p. 186.
- 13 Paper (Poster) presented entitled “Comparative bio-efficacy of *Azadirachta indica* A. Juss and *Sphaeranthus indicus* Linn as stored grain protectants of green gram (*Vigna radiata* Linn) against pulse beetle, *Callosobruchus chinensis* Linn. At 5th World Neem Conference at Coimbtore (Tamilnadu). In section of Pest control. Abstract No. 1, p. 91. 21-11 to 24-11-2007.
- 14 Research paper (Poster) entitled “Piscicidal activity of some indigenous plants against fish: *Lepidocephalichthys guntea* (Ham-Buch).” presented at 95th Indian Science Congress, Visakhapatnam (A. P.) Jan, 3-7, 2008. In the section of Environmental Sciences Abstract No. 46, p. 31.
- 15 Research paper (poster) entitled “Studies on acute toxicity of some indigenous plants against *Callosobruchus chinensis* (Coleoptera: Bruchidae)”. Presented at 95th Indian Science Congress, Visakhapatnam (A.P.) Jan, 3-7, 2008. In the section of Animal, Veterinary and Fishery Sciences. Abstract No. 46. p. 39.
- 16 Research paper (Poster) entitled “ *In vitro* Haemolytic activity of some indigenous plants in Human Red Blood Carpuscles” Presented at 95th Indian Science Congress, Visakhapatnam (A.P.) Jan, 3-7, 2008. In the section of Medical Sciences (Including Physiology). Abstract No. 80. p. 60.
- 17 Research paper (poster) entitled “Persistent toxicidal effect of Neem and Gorakhmundi against pulse beetle, *Callosobruchus chinensis* Linn”. Presented at 96th Indian Science Congress, North Eastern Hill University, Shillong (Meghalaya). Jan, 3-7, 2009. In the section of Animal, Veterinary and Fishery Sciences. Abstract No. 285. p.213.

- 18 Research paper (Poster) entitled “Effects of some indigenous plants as larvicides against Mosquito larvae of *Anopheles* Spp.” presented at 96th Indian Science Congress, North Eastern Hill University, Shillong (Meghalaya). Jan, 3-7, 2009. In the section of Environmental Sciences. Abstract No. 122, p. 82.
- 19 Research paper (Oral) entitled “Wound healing activity of *Curcuma longa* and *Hamiltonia suavolens* in Rat”. Presented at 5th World Congress of Cellular and Molecular Biology, Indore (India). Nov. 2-6, 2009. Symposium No. 5. Herbal Drugs for cellular therapy. Abstract No. 25, p. 29-30.
- 20 Research paper (poster) entitled “A note on ichthyofauna of Panzara river (Tah. Sakri) of Dhule District of Maharashtra”. Presented at 97th Indian Science Congress, Thiruvananthapuram (Kerala). Jan, 3-7, 2010. In the section of Animal, Veterinary and Fishery Sciences. Abstract No. BR-6, p 137-138.
- 21 Research paper (poster) entitled “Wound healing activity of *Sphaeranthus indicus* (Linn) in Albino rats”. Presented at 97th Indian Science Congress, Thiruvananthapuram (Kerala). Jan, 3-7, 2010. In the section of Animal, Veterinary and Fishery Sciences. Abstract No. PH-20, p 301.
- 22 Research paper (poster) entitled “Efficacy of *Azadirachta* and *Sphaeranthus* plant extracts against pulse beetle, *Callosobruchus chinensis* L. in infesting Green gram”. Presented at 97th Indian Science Congress, Thiruvananthapuram (Kerala). Jan, 3-7, 2010. In the section of Plant Sciences. Abstract No. 136.
- 23 Research paper (poster) entitled “Efficacy of *Azadirachta indica* and *Sphaeranthus indica* plant extracts against pulse beetle, *Callosobruchus chinensis* L. in infesting Green gram”. Presented at National conference on advances in microbial biotechnology and interdisciplinary approaches. Held at M. J. College, Jalgaon. Jan 22-23, 2010. Abstract No. AMBI 2010 ID 12, p. 64.
- 24 Abstract entitled “Lac culture” published in proceeding of State level seminar on “Recent trends in Agro based industries for community development”. Held at S. G. P. College, Sakri Dist- Dhule. Feb 8-9, 2010. pp. 28.
- 25 Research paper (Oral) entitled “Studies on recycling of agricultural waste by earthworm, *Eisenia foetida* for sustainable development of environment”. Presented at 3rd International Congress of Environmental Research (ICER- 10). Held at University of Mauritius, Reduit, Mauritius. September 16-18, 2010. Section: Life Sciences, Abstract No. 267.
- 26 Research paper (Oral) entitled “Efficacy of some medicinal plants against the pulse beetle, *Callosobruchus chinensis* L. (Coleoptera: Bruchidae) Infesting Bengal gram (*Cicer arietinum*) Seed”. Presented at National conference on Biotechnology for All (NCBFA-2010) Organized by School of life Sciences, North Maharashtra University, Jalgaon. December 29-30, 2010.
27. Research paper (Oral) entitled “Eco-Friendly Vermicomposting and Management of Water Hyacinth by using Earthworms”. Presented at 4th International Congress of

- Environmental Research (ICER- 11). Held at S. V. National Institute of Technology, Surat (Gujarat). December 15-17, 2011. Section: Life Sciences, Abstract No. 210.
28. Research paper (Oral) entitled “Bioaccumulation of Heavy Metals through Earthworms from Water Hyacinth Contaminated Vermicompost”. Presented at 4th International Congress of Environmental Research (ICER- 11). Held at S. V. National Institute of Technology, Surat (Gujarat). December 15-17, 2011. Section: Physical Sciences, Abstract No. 239.
 29. Research paper (Oral) entitled “Impact of insecticides viz., Malathion and Cypermethrin on Oxygen consumption rate in fresh water fish, *Lepidocephalichthys guntea* (Ham-Buch)”. Presented at 4th International Congress of Environmental Research (ICER- 11). Held at S. V. National Institute of Technology, Surat (Gujarat). December 15-17, 2011. Section: Life Sciences, Abstract No. 899.
 30. Research paper (poster) entitled “Induced effect of Malathion and Cypermethrin insecticides on biochemical constituents of freshwater fish, *Lepidocephalichthys guntea* (Ham-Buch)”. Presented at 99th Indian Science Congress, KIIT University Bhubaneswar (Odisha). Jan, 3-7, 2012. In the section of Animal, Veterinary and Fishery Sciences. Abstract No. F-P. 33. P. N. 190-191.
 31. Research paper (poster) entitled “Review on health status by clinical analysis of blood and urine of some rural peoples of Pimpalner region, Dist- Dhule (M.S.)”. Presented at 99th Indian Science Congress, KIIT University Bhubaneswar (Odisha). Jan, 3-7, 2012. In the section of Medical Sciences. Abstract No. 17, P. N. 151.
 32. Research paper (poster) entitled “Antimicrobial Potential of Some plant extracts of Charanmal Ghat, Dist- Dhule (M. S.)”. Presented at 99th Indian Science Congress, KIIT University Bhubaneswar (Odisha). Jan, 3-7, 2012. In the section of Plant Sciences. P. N. 54.
 33. Research paper (poster) entitled “Phytochemical studies and Antimicrobial screening of some indigenous plants. Presented during National conference on “Trends in chromatography and spectroscopic techniques” organized by R. C. Patel institute of Pharmaceutical education and research, Shirpur Dist- Dhule. October 6, 2012. Abstract No. AS – 10.
 34. Research paper (Oral) entitled “Studies on physico-chemical qualities of drinking water from Wadibhokar Village of Dhulia district (M. S.)”. Presented at 5th International Congress of Environmental Research (ICER- 12). Held at University Malaysia Terengganu (UMT), Kaula Terengganu, Malaysia. November 22-24, 2012. Section: Physical Sciences, Abstract No. PS- 155.
 35. Research paper (Oral) entitled “Eco-friendly management of bio-wastes by using earthworm, *Eisenia foetida*.” Presented at 5th International Congress of Environmental Research (ICER- 12). Held at University Malaysia Terengganu (UMT), Kaula Terengganu, Malaysia. November 22-24, 2012. Section: Physical Sciences, Abstract No. PS-109.
 36. Research paper (Oral) entitled “Comparative studies on haematological responses in the freshwater fish, *Punctius chonchonius* (Ham-Buch) exposed to two piscicidal

plant extract” Presented at UGC and DST sponsored National Conference on Biodiversity and environmental impact (NCBEI-2012), organized by Department of Zoology, ASC College Navapur, Dist- Nandurbar. December 22-23, 2012. Abstract No.,OP-3, Page. No. 31.

37. Research paper (poster) entitled “Comparative studies on haematological responses in the freshwater fish, *Punctius chonchonius* (Ham-Buch) exposed to two piscicidal plant extract”. Presented at 100th Indian Science Congress, Held at Calcutta University, Kolkata. Jan, 3-7, 2013. In the section of Animal veterinary and fishery sciences. Abstract No. ABF F-111, P. N. 220.
38. Research paper (poster) entitled “Anti-pathogenic potential of some common weeds against disease producing microbe”. Presented at 100th Indian Science Congress, Held at Calcutta University, Kolkata. Jan, 3-7, 2013. In the section of Plant Sciences. Abstract No. 100, P. N. 220.

Workshop/ Seminars / Conferences attended

1. Workshop for T. Y. B. Sc. Syllabus framing at Jaihind College, Dhule. 23/12 to 24/12/1993 (University Level).
2. Workshop on mutual learning in zoology practical at MGTS Mandals ASC College, Chopda Dist- Jalgaon. 1/11 to 2/11/1995 (University Level).
3. Seminar on Genetics/ Pollution at Pratap College, Amalner (Jalgaon). 18/12/1996 (University Level).
4. Seminar on Ornithology / Entomology at C. E. Society ASC College, Chalisgaon (Jalgaon). 6/10/1996 (University Level).
5. Seminar on Environmental Science at PSGVP Mandals Shahada College, Shahada (Nandurbar). 23/2/1997. (University Level).
6. Workshop on Drugs at Jammu Memorial Hospital, Jammu. 6/4 to 7/4/1997. (National level).
7. Seminar on Gene therapy and Biochemistry at Rashtriya ASC College, Chalisgaon (Jalgaon). 19/10/1997 (University level).
8. Seminar on Molecular biology / Genetic engineering at ASC College, Navapur Dist- Nandurbar. 11/1/1998. (University level).
9. Workshop for T. Y. B. Sc. Syllabus framing at M. J. College, Jalgaon. 12/12 to 13/12/1998 (University level).
10. Workshop on Fishery at P. O. Nahata College, Bhusawal. 19/2/1999. (University level).
11. Workshop for F. Y. B. Sc. Syllabus framing at S. V. S. ASC College, Dondaicha (Dhule). 27/2/2002 (University level).
12. Workshop for S. Y. B. Sc. Syllabus framing at PSGVP Mandals Shahada College, Shahada,(Nandurbar). 12/3/2003. (University level).

13. Seminar on Recent Development in the field of life Science at UGC-COSIP at D. N. College, Faizpur Dist – Jalgaon. 12/8/2003. (State level).
14. Workshop for T. Y. B. Sc. Syllabus framing at Pratap College, Amalner (Jalgaon). 5/12 to 6/12/2003. (University level).
15. **91st Indian Science Congress at Panjab University, Chandigarh, Panjab. 3/1 to 7/1/2004. (International)**
16. Workshop on water quality analysis at Rashtriya ASC College, Chalisgaon (Jalgaon). 4/9 to 6/9/2004. (National)
17. **92nd Indian Science Congress at Nirma University, Ahmednagar (Gujrat). 3/1 to 7/1/2005. (International).**
18. Seminar on C. V. Raman memorial seminar-2005 at North Maharashtra University, Jalgaon. 28/2/2005. (University level).
19. Seminar on Intellectual Property Rights (NSIPR-2005) at North Maharashtra University, Jalgaon. 27/9 to 28/9/2005. (National).
20. North Maharashtra University, Jalgaon at North Maharashtra University, Jalgaon. 16/12 to 17/12/2005 (National).
21. **93rd Indian Science Congress at Acharya Dr. N. G. Ranga Agricultural Uni., Hyderabad. 3/1 to 7/1/2006. (International).**
22. UGC-SAP-DRS Seminar on Integrated Pest Management at North Maharashtra University, Jalgaon. 2/2 to 3/2/2006. (State level).
23. Seminar on C. V. Raman memorial seminar –2006 at North Maharashtra University, Jalgaon. 28/2/2006 (University level).
24. Seminar on Challenges and Difficulties in Standardization of Herbal products at PSGVP Mandals Pharmacy College, Shahada (Nandurbar). 22/7/2006. (National).
25. Conference on Recent Trends in Phytomedicins and Neutraceuticals at R. C. Patel Pharnacy College, Shirpur (Dhule). 5/11 to 6/11/2006. (National).
26. **94th Indian Science Congress at Annamalai Univer, Chidambaram (Tamilnadu). 3/1 to 7/1/2007 (International).**
27. **5th World Neem Conference at Neem Fondation, Coimbtore (Tamilnadu). 21/11 to 24/11/2007. (International).**
28. **95th Indian Science Congress at Andhra University Visakhapattanum, (AP). 3/1 to 7/1/2008. (International).**
29. Workshop on Life Skills (Personality development) at North Maharashtra University, Jalgaon. 29/7 to 1/8/2008. (University level).
30. Workshop for S. Y. B. Sc. Practical at M. J. College, Jalgaon. 22/8/2008. (University level).
31. Workshop for T. Y. B. Sc. Syllabus framing at S. S. V. P. S. Dr. Ghogare College, Dhule. 9/12 to 10/12/2008 (University level).
32. **96th Indian Science Congress at North- Eastern Hill University, Shillong (Meghalaya). 3/1 to 7/1/2009. (International).**

33. Workshop on Gender and Life Skills training at North Maharashtra University, Jalgaon. 14/2 to 15/2/2009. (University level).
34. One day workshop on “New trends in higher education” at S. G. Patil College, Sakri. 1/3/2009. (University level).
35. **5th World Congress of Cellular and Molecular Biology at School of Biotechnology, Devi Ahilya Vishwavidyalaya, Indore, India and World Society of Cellular and Molecular Biology, France. 2/11 to 6/11/2009. (International).**
36. National conference on Advances in microbial biotechnology and interdisciplinary approaches at Department of Microbiology and Biotechnology, M. J. College, Jalgaon. 22/1 to 23/1/2010. (National)
37. Regional seminar on Awareness motivation, of beekeeping in Maharashtra at Arya Gramoudyog Santhan (U.P.) and sponsored by National Bee Board, Govt. Of India. 19/2 to 20/2/2010. (State level).
38. Advances in Science and Technology of Nanomaterials (AISATON- 2010) at Department of Physics, S. G. Patil College, Sakri. 8/3 to 9/3/2010 (State level).
39. **3rd International Congress on Environmental Research (ICER-10) at University of Mauritius, Reduit, Mauritius. 16/9 to 18/9/2010. (International).**
40. National conference on Biotechnology for all (NCBFA 2010) at School of life sciences NMU- Jalgaon. 29/12 to 30/12/2010. (National).
41. **International conference on Biodiversity and Environmental Crisis: Past, Present and Future (ICBEC- 2011) at Dept. of Botany, Geography and Chemistry, S. S. V. P. Santha's Late Dr. P. R. Ghogare Science. 11/2 to 13/2/2011 (International).**
42. One day workshop on Study and Counseling Skill at Adult and Continuing education Department, NMU- Jalgaon. 1/10 to 2/10/2011. (University level).
43. **4th International Congress on Environmental Research (ICER-11) at S. V. National Institute of Technology, Surat (Gujarat), India. 15/12 to 17/12/2011 (International).**
44. **99th Indian Science Congress at KIIT University, Bhubneswar (Odisha). 3/1 to 7/1/2012 (International).**
45. Workshop for F. Y. B. Sc. Syllabus framing at Arts, Science and P. O. Nahata commerce College, Bhusawal. 10/2/2012 (University level).
46. One day workshop on “Lok Shiksha se Jan Jangaran ki Aur” at Pratap college, Amalner Dist- Jalgaon. 17/2/2012 (University level).
47. workshop for M. Sc. II Sem- IV. Zoo Practicals at M. J. College Jalgaon. 4/10/2012 (University level).
48. National conference on Trends in Chromatography and spectroscopic techniques at R. C. Patel, Pharmacy College, Shirpur Dist- Dhule. 6/10/2012. (National).
49. **5th International Congress on Environmental Research (ICER-12) at University Malaysia Terengganu (UMT), Kuala Terengganu, Malaysia. 22/11 to 24/11/2012. (International).**
50. National conference on Biodiversity and Environmental Impact (NCBEI-12) at ASC College, Navapur Dist- Nandurbar. 22/12 to 23/12/2012 (National).

51. **100th Indian Science Congress at Calcutta University, Kolkata (W. B.) 3/1 to 7/1/2013. (Internaional).**

52. S. Y. B. Sc. Syllabus framing workshop at S. S. M. M. ASC College, Pachora Dist- Jalgaon. 12/1/2013. (University level).

Extension Activities (at College level)

Year 2007-2008.

- Science Association- Chairman
- Time-table Committee- Chairman
- One- Day Workshop on Science and Technology for Community Development, Convener (23-12-2007).

Year 2008-2009.

- Science Association- Chairman
- Medical Check-up camp- Chairman
- N. S. S. – Assistant programme officer
- N. S. S. Advisory Committee – Member
- Life skills, Personality development and AIDS awareness - Counselor

Year 2009-2010.

- Science Association- Secretary
- Medical Check-up camp- Chairman
- N. S. S. – Assistant programme officer
- Life skills, Personality development and AIDS awareness - Counselor

Year 2010-2011.

- Science Association- Secretary
- Medical Check-up camp- Chairman
- Life skills, Personality development and AIDS awareness - Counselor
- Life-learning cell – Co-ordinator.

Year 2011 - 2012.

- Medical Check-up camp- Chairman
- Coordinator- Life-learning cell.
- I. Q. A. C.- Member

Year 2012 - 2013

- Medical Check-up camp- Chairman
- Coordinator- Life-learning cell.

- I. Q. A. C.- Member
- Research committee- Member

Public Lectures delivered

- Introduction to pests and their hazards - NSS winter camp (SGPC) Vardhane, Tal Sakri. Nov. 1992
- Human endocrine glands- NSS winter camp (SGPC) Nagpur, Tal Sakri. Nov. 1993
- Wild Life of India- Science Club (SGPC) Sakri. 3 Oct, 1995
- Water Pollution and Quality of drinking water- Science Club (SGPC) Sakri. 1996
- Indian Forest: Present and Past- Science Club (SGPC) Sakri. 1997
- Energy Crises and Alternative sources of Energy- Science Club (SGPC) Sakri. 1998
- 50 years of DNA Discovery- ADMS College, Mhasdi Tal Sakri. Feb. 2003
- 50 years of DNA Discovery- New English School Sakri. Feb. 2003
- 50 years of DNA Discovery- SGP College, Sakri. Feb. 2003
- Honey bees: The Social Insect- NSS winter camp (SGPC) Nagai Tal Sakri Nov, 2004
- AIDS and Youth- NSS winter camp (Dahiwel College) at Surpan, Tal. Sakri. Nov, 2005
- Insect Communication- Science Club (SGPC) Sakri. 2005
- Several Lectures and Slide Show on “ Vayat Yetana” at various High School of Sakri Taluka- 2005, 2006, 2007.
- AIDS awareness – Under Neharu Yuva Kendra & UNDP (Thapta) Dhule at Mahatama Jyotiba Phule High School at Ghodade Tal Sakri. 10-3-2007
- Water Pollution, Hame Jine Do and Mitha Jahar etc. C. D. and Lecture at S. G. Patil College, Sakri. (Science club, 4-10-2007).
- Neem-Ek- Kalpavruksha: one day Workshop on “Science and Technology for Community Development” held at S. G. Patil College, Sakri, 23-12-07.
- Talk on AIDS Awareness before marriage and Counseling at Saint Tukaram Social institute, Sakri. 8-3-2008.
- Environmental Awareness- Solid Waste Management: High School Teacher Camp at N. T. Ashram, Sakri. 2-5-2008.
- Communication skill- “Body language” one day N. S. S. camp, S. G. Patil College, Sakri. 4-9-2008.
- AIDS awareness, Slide show and lecture at Sakri taluka All Sevabhavi Santha’s C. T. C. colleges, Camp at Nijampur Tal- Sakri. 12-12-2008.
- Delivered two lectures namely, Tan tanav and Dheya nishchiti at H. R. Patel Mahila College, Shirpur organized Yuvati Sabha for N. N. S. girls of Dhulia district in collaboration of N. M. U. Jalgaon. 27-12-2008.
- Working as a coordinator for life skills and AIDS awareness counselor at college level.
- Delivered speech on “Gender- Natural and Social” at S. G. P. College, Graduate student. On 25-2-2009.
- Chief guest for Annual prize distribution ceremony at Shantivan- Adhyapak Vidyalaya, Shewali, Tal- Sakri, Dist- Dhule. 13 March, 2010.
- Chief guest for closing ceremony function of NSS Winter camp of Uttamrao Patil Arts and Science College, Dahiwel (Tal- Sakri) at Kaldar, 15, Dec 2010.

- Deliver a speech on “ Sane Guruji and Aajachi Yuva Pidhi” on occasion of 111th birth anniversary of late Sane guruji, at Arts and Science College, Mhasdi Tal Sakri Dist-Dhule. 24 Dec, 2010.
- Deliver several speeches (with power point presentation) on snakes, types, Poisonous and non poisonous etc. during “**Sarpvidyana Saptah**” under *Anis*, at various schools and colleges of Sakri tahsil. From 28 July to 4 August 2011.
- Chief Guest for inauguration functions of “Vidyan Chhand Mandal” at New English School, at Dighave Tal- Sakri (16-9-2011).
- Speech on Higher Education Scenario in India. Teacher academy, S. G. Patil College, Sakri. Dated 29-12-2011.
- speech on dhey nishchiti and nirnay samata B. ed college, Sakri. 23- 01- 2013.
- Deliver a speech and power point presentation on “Tan- Tanav Niyantran” at Jijamata Kanya Vidyalaya, Sakri for one day Gat- Sammelon of high school teachers. 30-01-2013.
- Deliver a speech and power point presentation on “ Vayat Yetana” for std VIII to X Girls” at Jijamata Kanya Vidyalaya, Sakri 01-02-2013.

Workshops/ Seminars organized (Work as Coordinator).

1. One day workshop on “**Science and Technology for Community Development**”. Date 23 December 2007.
2. One day workshop on **T. Y. B. Sc. (Zoology) Practical mutual learning**. Date 23 December, 2009.
3. State level seminar on “**Recent trends in Agro based industries for Community Development**”. Feb 8-9, 2011.
4. One day workshop on “Lifelong Learning Cell” Date: 8-10-2011.
5. One day workshop on **F. Y. B. Sc. (Zoology) Practical mutual learning**. Date 21 July, 2012.

Fellow/ Life Member

A) Fellow Member

- Fellow Society for Applied Biotechnology, Dharwad University.

B) Life member

- Indian Science Congress Association (ISCA), Kolkata. No. 10122.
- Indian Association of Aquatic Biologist (IAAB), Hyderabad. No. 371.

- Indian Journal of Agricultural Biochemist, Kanpur.
- The Biosphere, Chapra, Bihar.
- Zoological Society of India, Gaya (Bihar).

Special Highlighted Social Activities

- Recognition as a post graduate teacher (M. Phil, Ph. D. Research guide in Zoology) Ref. No. NMU/ 11/ PGR/ Zoo/ 2833/ 2009 dated 19th Nov, 2009.
- Approved Ph. D. guide in Zoology, Shri Jagdishprasad Jhabarmal Tibrewala University, Vidyanagari, Jhunjhunu- Road, Chudela, Dist- Jhunjhunu- 333 001 Rajasthan, India. (Reg. No. JJT/ 2K9/ SC/ 936. Dated 11/ 09/ 2012).
- Honoured with **Samaj bhushan puraskar of Samaj Samata Sangh**. 29-9-2012.
- Member – Marathi Vidyan Parishad, Sakri.
- Member – Rotary club, Sakri.
- Co-Secretary Andha-Shradha Nirmulan Samiti Sakri Taluka
- Member “Ex-institute- Biologist” Institutional Animal Ethics Committee- M. J. College Jalgaon.
- Counselor- Saint Tukaram Samajik Sanstha, Sakri. Dist – Dhule. From 18/ 11/ 2007.

Active Participation

- Certificate on for active participation on National Science Day, 2003, Marathi Vidyan Parishad, Sakri
- Certificate on for Blood donation, Shri Navjeevan blood bank, Dhule 29-8-2002
- Certificate on for Blood donation, blood bank, Dhule 29-8-2008
- Certificate on for Blood donation, blood bank, Dr. Babasaheb Ambedkar Chowk, Sakri. Saint Rohidas Jayanti. 9-2-2009.
- Certificate on for Blood donation, Bhausahab hire govt. medical college, Dhule, 29-8-2009.
- Certificate on for Blood donation, Bhausahab Hire Govt. Medical College, Dhule, 29-8-2011.
- Certificate on for Blood donation, Bhausahab Hire Govt. Medical College, Dhule, 29-8-2012.

Representation on Various Bodies

1. Member- Board of studies in Zoology- NMU, Jalgaon.
2. Faculty Member – NMU, Jalgaon.

University exam work

- Senior Supervisor
- Chairman / Member paper setter
- Member Flying Squad
- Examiner/ Moderator
- Practical exam- internal / external examiner