

SHRI SHIVAJI COLLEGE OF ARTS, COMMERCE AND SCIENCE, AKOLA
Faculty Profile

1. Name : Dr. Mohammad Musaddiq
 2. Address (Residential) : Behind Saleem Cottage,
 Aman Khan Plots,
 Akola 444 001 (M. S.),India.
 3. Phone No. / Mobile No. : Res. –2457851, College – 2433438,
 Mobile - 9922281080
 4.E- mail address : dr_m.musaddiq@rediff.com
 5.Designation : Reader and Head
 6.Department : Department of Microbiology
 7.Date of Birth : 28/06/1959
 8.Area of specialization : Microbiology
 9. Academic Qualification:



Exam passed	University	Subject/ Specialization	Year of Passing	Division
B. Sc.	Marathwada University	Microbiology	1980	I
M. Sc.	Marathwada University	Microbiology	1982	II
Ph. D.	Marathwada University	Microbiology (Environmental Science)	1992	-
Other Degree/ Diploma:	Diploma in Computer application, Aptech Computer Education – 1999, Certificate course in Internet, Pristine Infocast Pvt. Ltd. 2000.			
Title of Ph. D. Thesis: “Some Microorganism responsible for environmental Bio pollution and suggestive methods to control the atmosphere.”				

10. Membership of Academic Organizations:

- a) Chairman, Board of studies in Biochemistry Including Microbiology and food Sciences. Since, Nov.2007, SGB Amravati University.
- b) Member, Academic Council, SGB Amravati University. Since, Nov.2007
- c) Member, Doctoral Research Committee, SGB Amravati University.
- d) Member, Board of studies in Microbiology, DSA Marathwada University, Aurangabad.
- e) Member, Board of studies in Bioinformatics (PG) From Nov.2007 to June 2009 SGB Amravati University.
- f) Member: Board of Studies in Biochemistry & Microbiology at Amravati University from April 1987.
- g) Member faculty of Science Amravati University from April 1997 & from Aug. 2002.and from Nov. 2007.
- h) Life Member Association of Microbiologist of India.
- i) Life Member, Indian Association of Environmental Management.
- j) Life Member, Indian Science Congress Association.
- k) Life Member, Microbial Society of India.
- l) Member, Board of Studies of Paramedical Courses at Maharashtra State Board of Secondary & Higher Secondary Education, Pune. (April 1985 to April 1990).

- m) Chairman board of Studies, Biochemistry & Microbiology, Amravati University, Amravati from 1993 to 1995.
- n) Member, Subject Examination Committee for Biochemistry & Microbiology at Amravati University, Amravati from 1993 to 1998.
- o) Life member, Indian Association of Aquatic Biologists.
- p) Life Member, Biotech Research Society of India.
- q) Life member of the Journal of Environment and Pollution.
- r) Life member of the Journal, Pollution Research.

11. Research Experience:

- a) Part-time research fellow at Dept. of Environmental Sciences, Marathwada University form June 1986 to April 1992.
- b) Recognized as Ph.D. Supervisor in Microbiology by Amravati University Amravati from Feb. 1997.
- c) Recognized project guide for M.Sc. (Environmental Science) at Yashwantrao Chavan Open University.
- d) Recognized guide for post graduate Curriculum; National Institute of Ecology and Environment, New Delhi; (Autonomous) and guided on student of M. Sc. dissertation.
- e) Recognized guide for M. Sc. dissertation for Dept. of Microbiology, Bundelkhand University, Jhansi and guided two student for M. Sc. (Micro) dissertation.
- f) Guided 24 students for Dissertation of M. Sc. (Microbiology): Under SGB Amravati University:

Sr. No.	Name of Student	Topic of Dissertation	Academic Year
1	Ms. Monika V. Dubey	Bacteriological status of drinking water – Akola city of Maharashtra	2000-01
2	Ms. Tejaswini D. Purushottam	Physiochemical and Bacteriological Analysis of Ground Water	2000-01
3	Ms. Vishnupriya V. Khan	Impact of Industrial effluent on Akola scosystem	2001-02
4	Mr. Rizwzn Khan	Ecosystem of Lonar Lake	2001-02
5	Ms. Anjali D. Barde	Comparative toxicity of heavy metals to bacteria from water bodies	2001-02
6	Ms. Sharda R. Datkar	Microbial quality of Ice and their products	2002-03
7	Ms. Nisha Khan	Studies on microbial quality of market Fast-foods	2002-03
8	Mr. Asad S. Syed	Ground water survey of Saline belt area of Akola district.	2002-03
9	Ms. Leena J. Purohit	Study of air flora of Akola	2003-04
10	Mr. Irshad Ahmed	Use of Escherichia coli in dehairing of animal's skin during leather processing.	2003-04
11	Ms. Megha B. Shankarwar	Microbial quality of Indian fermented food products.	2003-04

12	Mr. Abdullah Khan	Quality status of Packaged drinking water	2004-05
13	Mr. Amol C. Tatiya	Search for resistant markers in Salmonella Spp. With the aid of Bioinformatics.	2004-05
14	Ms. Shrui S. Paraskar	Pollution level of water at Akola city in extreme seasons	2005-06
15	Ms. Sneha S. Rathi	Antibacterial and Antifungal activities of Kalongi	2005-06
16	Ms. Ashwini R. Sudke	Comparative prevalence study of H. pylori in goat and human stomach	2006-07
17	Miss Minakshi Dhanokar	Characterization of Methicillin resistant S.aureus from Akola region.	2007-08
18	Farhana Ali	Comparative analysis of physicochemical and bacteriological properties of Eutrophic and fresh water bodies	2008 – 09
19	Asim Sheikh	In-vitro assessment of cholic acid permeabilizing ability in combination with antibiotics to combat microbial resistance exhibited by biofilm producing bacteria	2008 – 09
20	Snehal Nemade	Efficacy Lactobacillus plantarum to inhibit aerobic bacterial burn wound pathogens.	2008 – 09

• Under Indian Institute of Ecology and Environment New Delhi:

Sr. No.	Name of Student	Topic of Dissertation	Academic Year
	Mr. Rajesh Tayade	Environmental education for school going children – Today and Tomorrow	2001-02

• Under Bundelkhand University, Jhansi

Sr. No.	Name of Student	Topic of Dissertation	Academic Year
22	Ms. Vertika Srivastava	Studies on antibacterial activities of spices.	2002-03
23	Ms. Saheen Sultana	Comparative prevalence of Salmonella in Maharashtra and Madhya Pradesh	2002-03

• Under Bundelkhand University, Jhansi

Sr. No.	Name of Student	Topic of Dissertation	Academic Year
24	Mr. Kiran Tekade	Comparative in vitro analysis of fungi isolated from rhizospheric soil for indole acetic acid production.	2008-09
25	Mr Mahesh Rokade	Isolation and identification of	2008-09

		Pesticide resistant bacteria from agricultural soil.	
26	Miss Ashwini Joshi	Production and comparative analysis of Biofertilizers from azotobacter and pseudomonas and their combination.	2008-09

b) Guided 3 students for Dissertation of M. Phil.:

- Prasanna L.Kulkarni 'Bacteriological analysis of readily available drinking water from Akola city. Annamalai University .2007
- Anand Kharat "Bacteriological aspects of pollution and suggestive approaches to control pollution. YCMOU Nashik 2007

c) Guiding Ph.D students: Guided 7 students for research leading to Ph.D. and 10 are doing their work

- Mr. Anil Fokhmare, "Studies on physiological responses of microorganisms to water pollutants", w.e.f. 15/7/2000. (Awarded Ph.D., 2004)
- Mrs. Arti Deshpande, "Studies on the Antimicrobial properties of some medicinal plants found in and around Akola, w.e.f. 15/1/2001. (Awarded Ph.D. 2005)
- Mrs. Shilpa Joshi, "Comparative Studies on incidences of Salmonella at in and around Akola and suggestive methods of control" w.e.f. 9/4/2001 (Awarded Ph.D. 2006)
- Ms. Swati Bipte, "Studies on Microbicidal properties of some plants for management of plant pathogens". W.e.f. 15/7/2001. (Awarded Ph.D. 2006)
- Mrs. Kahamariapudi Kusma Kumari, "Formation of Suitable media for the better production of Insecticidal crystal protein from Recombinant Escherichia coli having Bacillus thurengiensis cry protein productivity w.e.f. 15/7/2003. (Awarded Ph.D. 2007)
- Irshad Ahmed, "Molecular genetic analysis of the chromosomal plasticity region of the gastric pathogen Helicobacter pylori", w.e.f. 15/7/2004. (Awarded Ph.D. 2007)
- Ms. Smita B. Lanjewar "Characterization, Purification and Toxicity studies of the insecticidal complex produced by Photorhabdus Luminescence". (Awarded Ph.D.2007)
- Ajay G. Jadhav, "Studies of halophiles from Akola District", w.e.f. 15/7/2006.
- Kapil Kamble, "Studies on nuclease producing bacteria from soil of Akola District", w.e.f. 15/7/2006.
- Ravindra Ingle, " Studies on Methicillin resistant Staphylococcus aureus (MRSA) from high-risk patients of Akola region and their in vitro activities against bioactive compounds." w.e.f.15/1/2007,
- Ms. Aarti Kulkarni, "Isolation study and characterization of Bacillus thurengensis from soil." w.e.f.15/1/2007.
- Ms. Shweta Mishra, "Search for alternative remedies to fight against burn infectious pathogens" w.e.f. 15/7/2007.
- Ms. Vertika Shrivastva, "Antimicrobial and phytochemical activities of spices" w.e.f. 15/7/2007.
- Students registered for research leading to Ph.D., Under YCMOU.
- Imran Khan, "Microbiological and Physicochemical studies of Bio-medical waste disposed in and around Akola city of Maharashtra with respect to social aspects" Under YCMOU, Nashik. w.e.f.15/7/2007.

- Ibrahim Khan, “Antimicrobial resistance of bacterial pathogens associated with diarrhoeal patients in and around Akola city of Maharashtra and its correlation with socioeconomic status of the patients.” Under YCMOU, Nashik. w.e.f.15/7/2006.
- Manish Ahir, “Microbiological and physicochemical studies of the Industrial waste water discharged in the water reservoirs across Vidarbha region of Maharashtra with respect to its social and economical aspects.” Under YCMOU, Nashik. w.e.f.15/7/2006.
- Students registered for research leading to Ph.D., Under Dr.Babasaheb Ambedkar Marathwada University, Aurangabad,sub-centre Osmanabad.
- Muneeb Mujtaba, “Studies on antibiotic resistant Staphylococcal infection with special reference to Methicillin resistance and its molecular studies from Aurangabad”, Under Dr.Babasaheb Ambedkar Marathwada University, Aurangabad, w.e.f.15/7/2009.

d) New List of Publications:

1. Musaddiq. M. & Rajderkar, N. R: ‘In search of new indicator of water pollution.’ *Ind. Jr. of Microbiology* Vol. 28(1), (1988):31-34.
2. Musaddiq. M & Rajderkar, N. R.; ‘Pollution; Its control today and Tomorrow.’ *Jr. of Indian Association for environmental Management.* Vol. 17(3) (1990): 115 – 120.
3. M. Musaddiq; ‘Microorganism responsible for Environmental Biopollution – A case study of bore well water’, *Indian Jr. of Environmental Health.* Vol. 32 (3) (1990): 290 – 294.
4. Musaddiq, M. & Rajderkar, N. R.; ‘Municipal water supply standards – Some facts!’ *Current Science*, Feb. 1991.
5. Mohammad Musaddiq; ‘Aeroflora of Akola.’ *Proceedings of 45th Annual conference of Indian Phytopathological Society – At PKV. Akola* (1993); 99- 100.
6. M. Musaddiq; ‘Studies on Environmental Education in the Society’ *J. of Microbial World* Vol.2 (1), (2000); 62-64.
7. Mohammad Musaddiq.; ‘Surface water quality of Morna River at Akola.’ *Poll. Res.* Vol.4 (2000); 685-691.
8. Seema Hashmi, Ilyas Fazil M. Shakir and M. Musaddiq.; ‘Water Quality of Khazana Well at Beed District of Maharashtra ’*Jr. of Microbial World* Vol. 12 (2) (2000); 29-33.
9. Seema Hashmi and Mohammad Musaddiq; ‘Biochemical and Bacteriological Aspect of Bendusura River of Beed District.’ *Plant Resources Development, proceedings of the Seminars held on December 09, 2000.* *Plants Resource Development. Proceedings of the seminar held on Dec 9, 2000;* 119-122.
10. Seema Hashmi and M. Musaddiq.; ‘Studies on Physicochemical, Biochemical, and Microbiological aspects of Bendusura river of Beed districts.’ *Plant Resource development, proceedings of the seminar held on December 9, 2000* (Ed.) A. M. Mungikar & A. S. Bhuktar.119-122.
11. Anil K. Fokmare and Mohammed Musaddiq; ‘Level of Ammonia and Phosphorus as indicators of organic pollutants .by river Morna at Akola ’. *Envi. Poll. Control Jr*, Vol. 4, May-June (2001); 20-22.
12. Nanoty, V. D., Garode, A. D.,Kulkarni,N. S., Musaddiq, M. and Bodhankar, M. G.; ‘Water Quality of Morna river at Akola Dist. (Maharashtra State), India’, *Env. & Agri., Biodiversity. Agriculture Pollution in South Asia.* (2001); 543-546.

13. Garode, A. M., Nanoty, V. D., Kulkarni, N. S., Musaddiq, M. and Bodhankar, M. G.; 'A bacteriological profile of drinking water pollution in rural Maharashtra in India', 'Environment & Agricultural biodiversity and Pollution in South Asia. (2001); 547-549.
14. Anil K. Fokmare and Mohammad Musaddiq and Rizwan Khan; 'Comparative Studies of Physicochemical and Bacteriological quality of surface and ground water'. Pollution Res. Vol. 20 (4) (2001); 651-655.
15. Anil K. Fokmare, Mohammad Musaddiq and Tejasvini Purushottom; 'Physicochemical and Bacteriological analysis of ground water at Akola'. Jr. of Microbial World. Vol.3 (2) (2001); 51-58.
16. Shilpa D. Joshi and M. Musaddiq; 'Occurrence of Salmonella sps. in some commonly used Salads'. Proceedings of International Conference of SAARC countries on Biotechnology in Agriculture, Industry & Environment, (2001); 53-55.
17. Swati Bipte, N. S. Kulkarni and M. Musaddiq; 'Comparative studies on effect of autoclaved and unautoclaved *Azadiracta indica*. Extract on disease incidence in tomato'. Proceedings of International Conference of SAARC countries on Biotechnology in Agriculture, Industry & Environment, (2001); 132-135
18. Anil Fokmare, and M. Musaddiq; 'Bacterial Contamination of ground and surface water in and around Akola City (M.S.)', Proceedings of International Conference of SAARC countries on Biotechnology in Agriculture, Industry & Environment, (2001); 168-171.
19. S. S. More, Y. A. Ali, M. Musaddiq; 'Isolation of nicotine Utilizing bacteria from mouth of tobacco chokers'. Proceedings of International Conference of SAARC countries on Biotechnology in Agriculture, Industry & Environment, (2001); 48-52.
20. Mohammad Musaddiq, Anil K. Fokmare; 'Microbial Diversity and Ecology of Lonar Lake, Maharashtra: India'. Jr. Aquatic biology Vol. 16 (2), (2002); 1-4.
21. G.V. Korpe, S.P. Deshmukh and M. Musaddiq; 'Synthesis of 5 Glucosyl, 2, 4-isodithiourets and their antimicrobial study'. Asian Jr. of Chemistry, Vol. 14 No. (1) (2002); 121-124.
22. Anil K. Fokmare, Mohammad Musaddiq and Monica Dube; 'Bacteriological Status of drinking water in Akola city of Maharashtra'. Asian Jr. Microbial Biotech, Env. Vol. 4 (2) (2002); 255-258.
23. Anil K. Fokmare, Mohammad Musaddiq and Anjali Barde; 'Comparative toxicity of heavy metals to bacteria forms water bodies'. Pollution Res. Vol. 21(1) (2002); 284-287.
24. Anil K. Fokmare and M. Musaddiq; 'Studies of metal Pollution in surface and ground water of Akola'. Environmental Pollution Control Journal Vol. 5 (4) (2002); 12-15.
25. Anil K. Fokmare and M. Musaddiq; 'A study on physiochemical Characteristics of Kapsi Lake and Purna River water in Akola district of Maharashtra'. Jr. Of Nature, Environment and Pollution Tech. Vol.1 (3) (2002); 261-264.
26. Shilpa D. Joshi and M. Musaddiq; 'Studies on distribution of E. coli and Salmonella in drinking water- A six month's report'. Pollution Research. Vol.22 (1) (2003); 121-124.
27. Anil K. Fokmare, M. Musaddiq and Anjali Barde; 'Comparative toxicity of heavy metals to bacteria from water bodies'. Pollution Research. Vol 22(1) (2003); 41-49.
28. Mohammad Musaddiq and Anil K. Fokmare, 'Determination of Water Quality Index (WQI) of a surface water source of Akola city, Maharashtra. Jr. of Aqua. Biol. Vol. 18 (2) (2003); 17-18.
29. Anil K. Fokmare, Mohammad Musaddiq and Vishnupriya; 'Impact of Industrial effluent on Akola ecosystem'. Jr. of Industrial Poll. Cont. Vol. 19 (1) (2003); 14-19.

30. Shilpa Joshi and M. Musaddiq; 'Studies on multiple drug resistance pattern of Salmonella typhi isolated from various sources'. *Jr. of Microbial World* Vol. 5 (1) (2003); 63-65.
31. Anil K. Fokmare and M. Musaddiq; 'Physiological response of some bacteria to Chromium from water bodies'. *Eco. Env. & Cons.* Vol 9 (1) (2003); 85-89.
32. Anil K. Fokmare, M. Musaddiq and Anjali Barde; 'Comparative toxicity of heavy metals to bacteria from water bodies.' *Recent advances in water pollution Research* (Ed.) R. K. Trivedy Published by EnviroMedia (2003); 147-153.
33. Asad Sayyad, M. Musaddiq, Anil K. Fokmare and Zia Khan; 'Microbiological studies on miracle water, Akola, Maharashtra'. *Jr. Aqua. Biol.* Vol 18 (2) (2003);
34. V. D. Nanoty, M. Musaddiq M. A. Ahale; 'Microbiological studies on air in hospital atmosphere'. *Jr. Microbial World* Vol.5 (2) (2003); 91-94.
35. S. K. Bhagat, S. P. Deshmukh and M. Musaddiq; 'One Glucosyl thiouraides Synthesis, antibacterial and antifungal studies of certain 2-5-tetra-O-Benzyl-D-glucopyranosyl-1, 5-disubstituted-2, 4, isodothiourids.' *Jr. Ind. Chem. Soc* Vol. 80 (2003); 1.
36. M. Musaddiq, Nisha Khan Anil K. Fokmare; 'Studies on microbial quality of market fast food samples at Akola city of Maharashtra. *Jr. of Microbial world.* Vol. 6(1) (2004); 17-19.
37. A.R. Deshpande, Mohd. Musaddiq, D. G. Bhadange.; 'Studies on Antibacterial activity of some plant extract'. *Jr. of Microbial world.* Vol. 6(1) (2004); 430-49.
38. M. Musaddiq, Leena J. Purohit, Swati Bipte and Imran Khan; 'Study of air flora near solid waste dumping station at Akola, Maharashtra'. *Nature, Environmental Pollution Technology* Vol. 3, (1) (2004); 61-64.
39. Deshpande A. R., Musaddiq M., Banole A. M., Wadher B. J. Deshmukh S. R.; 'Antibiotic Resistance pattern of some clinical isolates of Staphylococci'. *The Indian Practitioner* March 2004, Vol 57 No. 3; 174-177.
40. Khandare Seema A., Nanoty V. D., Musaddiq M.; 'Studies on Chlorine and antibiotic resistance in coliforms isolated from drinking water from various public place in Akola city'. *Jr. of Microbial world* Vol (2) (2004); 187-190.
41. Deshpande, A. R., Musaddiq, M., Banole, A. M., Wadher, B. J., Deshmukh, S. R.; 'Antibiotic Resistance pattern of some clinical isolates of staphylococci'. *The Indian Practitioner* March 2004, Vol 57 No. 3; 174-177.
42. Vaishali Domale, V. D. Nanoty and M. Musaddiq; 'Microbial studies on nosocomial infections due to environmental contamination in hospitals'. *Nature, Environment and Pollution Technology.* Vol 4 (1) March (2005); 61 – 64.
43. A.D. Kharat, A. R. Deshpande, Mohd. Musaddiq; 'Antifungal activity of some medicinal plants against two phytopathogenic fungi'. *Asian Jr. of Microbial Biotech. Env. Sc.* Vol. 7(4) (2005); 743-745.
44. Anil K. Fokmare, M. Musaddiq; 'Surface and ground water pollution in and around Akola'. (Ed.) Smrita Ratna Mishra, Daya Publication New Delhi., *Advances in Limnology*(2005); 45-100.
45. Irshad Ahmed M. Musaddiq et al; 'New Data base of H. pylori'. *BMC of Bioinformatics/New Biomedical Database*(2005); 1-16
46. Swati Bipte and M. Musaddiq; 'Effect of plant extracts on seed germination and crop growth of crop of Vidharbha region'. *Amravati University Research Journal*, vol. 1 (1) (2005); 32-36.

47. Irshad Ahmed M. Musaddiq et al, 'A new evolutionary scenario for Helicobacter pylori'. J. of Bacteriology, vol. 49(3) (2005);
48. A.D. Kharat, A. R. Deshpande, M. Musaddiq; Antifungal activity of some medicinal plants against two phytopathogenic fungi, Asian Jr. of Microbiol Biotech. Env. Sc., Vol. 7(4) (2005); 743-745.
49. A.R. Deshpande, M. Musaddiq, S. P. Rothe, A. M. Banole, D. P. Patil, Screening of some plant extracts for antibacterial activity, Asian Jr. of Microbiol. Biotech. Env. Sc. Vol 7(4) (2005); 755-758.
50. Santosh K. Tiwari, Irshad Ahmed, M. Musaddiq, et.al, Polymerase Chain Reaction based analysis of the cytotoxin associated gene pathogenicity island of Helicobacter pylori from saliva: An approach for rapid molecular genotyping in relation to disease status., Gastrology and Hepatology, DOI: 10.11110,.1400-174603955X (2005).
51. Farhana Kauser, I. Ahmed, M. Musaddiq, Comparative genomes of Helicobacter pylori strain from the high – Altitudes Dessert of Ladakh India, Jr. Clinical Microbial, April 2005, Vol. 43 (4) pp-1538-1545.
52. S. K. Tiwari, I. Ahmed, M.Musaddiq et al., Rapid diagnosis of Helicobacter pylori infection in dyspeptic patients using salivary secretions: a new non-invasive approach. Singapore Med. Jr., Vol. 46 (5) (2005); 224-234.
53. Farhana Kauser, I. Ahmed, M. Musaddiq, Leonardo A. Sechi, Comparative genomics of Helicobacter pylori isolates received from ulcer disease patients in England BMC Microbiology, Vol. 5:32 DOI 10. 1186/ 1471-2180-5-32 (2005).
54. S. B. Thakare, A. V. Parvate, Y. V. R. Rao, M. Musaddiq, Performance of low cost absorbent for the removal of Fluoride in water. Proceedings of National conf. On sustainable technology for advancements on civil Eng. , S. R. K. R. Engineering College, Bhimanaram A. P., Proceedings of national conf., (2005);6.2.1.-6.2.6..
55. Sheikh Mehboob Ali, Aleem A. Khan, Irshad Ahmed, M. Musaddiq, Khaja S. Ahmed, H. Polosa, L. Venkateshwarrao, And Niyaz Ahmed; 'Antimicrobial Activities of Eugenol and Cinnamaldehyde against the human gastric pathogen H.pylori'. .Annuals of Clinical Microbiology and Antimicrobial (2005)4:20.
56. Kharat, A. R. Deshpande, Mohd. Musaddiq; 'Antifungal activity of some medicinal plants against two phytopathogenic fungi'. Asian Jr. of Microbial Biotech. Env. Sc. Vol. 7(4) (2005):
57. A.R. Deshpande, Mohd. Musaddiq, S. P. Rothe, A. M. Banole and D. P. Patil; 'Screening of some plant extracts for antibacterial activity'. Asian Jr. of Microbial Biotech. Env. Sc. Vol. 7(4) (2005):
58. M. Musaddiq, Sneha S. Rathi; 'Antimicrobial and antifungal activities of solvent extract of kalongi.' Jr. Microbial world 8(2) (2006); 249-251
59. Prajakta P. Bijwe, V. D. Nanoty and M. Musaddiq, studies on pathogenic isolates from pediatric patients with acute diarrhoeal diseases, Jr. of Microbial World, Vol. 8(1) (2006); 42-45.
60. A.R. Deshpande, M. Musaddiq,' Antifungal activity of some medicinal plants". Proceedings of National symposium on Development in Biotechnology, Emerging trends and Challenges and First BRSI convention, organized jointly by North Maharashtra University, Jalgaon and Biotech Research Society of India, Nov 25 – 27, 2004 , Published by Biotech. Research Society of India, , (2007-08) : 123-127

61. M. Musaddiq, and Shruti Paraskar; 'Pollution level of water at Akola in extreme season.' Jr. Microbial world Vol. 9(1) (2007); 145-48.
 62. K.Kusuma Kumari, M. Musaddiq and NGV Rao; 'Production of Cry 1Aa protein of Bt from recombinant E. coli by using agro wastes'. Asian Jr. of Microbiology, Biotechnology and Env.Sc Vol.9 (4) (2007); 1053-1056.
 63. P. Parmar, M. Musaddiq, A. R. Deshpande; 'Antimicrobial activity of 'Karkatshringi', a crude Ayurvedic product'. Asian Jr. of Microbiology, Biotechnology and Env.Sc Vol.10 (4) (2008); 821-823.
 64. P.M.Mehta, Y.A.Ali, M.Musaddiq; 'Effect of mouthwashes and toothpastes against caries including Streptococcus mutans'. Jr. Microbial world Vol.10 (1) (2008); 196-199.
 65. K.D.Kamble, M.Musaddiq; 'Characterization of nuclease producing bacteria from soil of Akola'. Jr. Microbial world Vol.10 (2) (2008); 113-117.
 66. S.D.Chavan,N.S.Kulkarni, M.Musaddiq; 'Evidences of endophytic translocation of endophytic human pathogen in tomato(Licopersicon esculatum) grown via.geophonics'.Nature,Environment and Pollution Technology, Vol.7 (3) (2008); 471-474.
 67. S.B.Lanjewar, M. Musaddiq, NGV Rao, L.M.Dhumale; 'Toxicity of Photorhabdus luminescence against Diamond back moth Plutella xylostella'. Jr. of Plant Disease Science Vol.3 (1) (2008); 77-84.
 68. S.B.Lanjewar, M. Musaddiq, NGV Rao; 'Fermentation media for novel insecticidal toxin producing bacteria Photorhabdus luminescence'. Asian Jr. of Microbiology, Biotechnology and Env.Sc Vol.10 (3) (2008); 74-77.
 69. S.H.Mishra.N.S.Kulkarni, M.Musaddiq; Cholic acid induced potentiation on antibacterial activity of antibiotics against multiple drug resistant S.aureus. Jr. Microbial world Vol.10 (1) (2008); 48-53.
 70. V.B.Chede, M.Musaddiq; 'Study of Microbial load in raw and pasteurized milk from market. Jr. Microbial world Vol.11 (1) (2009); 109-114.
 71. Farhana Ali, M. Musaddiq; 'Comparative analysis of physicochemical and bacteriological properties of Eutrophic and fresh water bodies'.Jr.of Aquatic Biology, Vol.24 (1), 2009;57-60.
12. Seminar/ conference/ symposia/ workshop attended:
1. Participated in International Workshop on "Biodeterioration of ancient stone work" organized by Govt. College, Aurangabad from Oct. 15 to Dec. 4, 1985.
 2. Participated in First Workshop on Environmental Biopollution at Marathwada University, Aurangabad from Sept. 29th Oct. 8 1986.
 3. Participated in 27th Annual Conference of Association of Microbiologist of India, at Nagpur University, Nagpur, Dec. 20 to 22, 1986.
 4. Participated in 28th Annual Conference of Association of Microbiologists of India at University of Poona, Pune, Jan. 16-18, 1988.
 5. Participated at Orientation Programme on "Vocationalisation of Education", Organised by N.E.E.R.I. and Govt of Maharashtra at Nagpur, Jan. 5 to 8 1988.
 6. Participated in Annual Conference-1989, of Indian Association for Environmental Management, held at I.I.T. Knapur, Nov. 10 -12,1989.
 7. Participated in 30th Annual Conference of Association of Microbiologist of India at Annamallai University, Annamalainagar Jan. 9 to 11, 1990.

8. Presented a paper entitled "Synthesis and Antibacterial, Antifungal activities of 4-aryl-3-arylimino 5 – imino – 1, 2,4- thiadiazolidines and N – phenyl o –alkyl carbamates", at 78th session of the Indian Science Congress at Indore, Jan. 6 to 8, 1991.
9. Participated in the Symposium on "Popularizing bio-technological processes for rural and semi-urban areas", organized by P.G. Dept. of Microbiology and biochemistry at Nagpur University, Nagpur. Feb7 to 9, 1991.
10. Presented a paper entitled "Some Microorganisms responsible for Environmental Biopollution – A case study of Bore-well water". At 79th Session of the Indian Science Congress at M.S. University, Baroda Jan. 3 to 8, 1992.
11. Participated at 33rd Annual Conference of Association of Microbiologist of India, organized by Dept. of Microbiology, Goa University, Goa, Nov. 5 – 7, 1992.
12. Presented a paper entitled "Aeroflora of Akola" at 45th Annual Meet of Indian Phytopathological Society at Punjabrao Krishi Vidyapeeth, Akola, Jan. 18-21, 1993.
13. Participated and presented paper entitled, "Phytopathogenic study of different varieties of cotton and their resistance to atteharria leaf blight of Indian Phytopathological Society Wetern Zone meet, 18th Jan. 1993, Abstract No.3, pp. 1
14. Presented a paper entitled "How safe our drinking water is?" at Conf. On recent trends I Botany at Amravati University, Amravati. 6 to 8 Dec. 1993 Ab. No. 134, pp. 61.
15. Participated and presented a paper entitled "An alternative of prevention of the Septicemia of Cord in impacts caused by Staphylococcus aurens, at 36th annual conf. Of Asso, of Microbiol. Of India at Hissar (8-10 Nov. 95).
16. Participated and presented a paper entitled "Study of textile deteriorating microorganism and effect of their enzymes on tensile strength." 37th annual conference of the Association of Microbiologist of India, at Indian Institute of Technology, Chennai (Dec. 4-6-1996).
17. Presented following paper at International Conf. On Environment and Agriculture (Nov. 1-3, 1998) at Kathmandu, Nepal.
 - a) "Ground Water quality of Akola District in Maharashtra"
 - b) Drinking Water Pollution in rural Maharashtra Bacteriological Profile.
 - c) "Water quality of Morna river at Akola"
 - d) Effect of bio-inoculation as influenced by fertilizers on seed germination of corn crops".
18. Participated & presented a paper "Environmental Education – For Wetland Conservation at National Conference cum Workshop on "Wetland Conservation" organized by Indian Asso. Of Aquatic Biologists at R. A. College, Washim 23rd to 25th Oct. 1999.
19. Presented following papers at 40th Annual Conference of AMI at CIFA, Bhubaneshwar 29 Nov. to 11 Dec. 1999.
 - a) "Studies on bicontrol competence in Rhizospher,
 - b) "Ground water quality of "Khazana well" at Beed Dist. Marathwada".
 - c) "Ground Water Quality – A case study of Akola"
20. Participated in One Day Conference of Amravati University Lady teacher's Association at Shri Shivaji College, Akola, Jan 3, 2001.
21. Presented following research papers at 88th session of Indian Science Congress at IARI New-Delhi, Jan 3-7-2001. "Comparative studies of physicochrmlal and bacteriological quality of Surface and Grand water.

22. Participated at 42nd Annual Conference of Association of Microbiologists of India at Gulbarga University, 9-11 Nov, 2001 and presented the following papers.
- “Ecosystem of Lonar Lake”
 - “Comparative toxicity of heavy metals to bacteria from water bodies.”
 - “Antimicrobial activities of six angiospermic plants.”
 - “Antibiotic resistance pattern of some clinical isolates of Staphylococci from Akola.”
 - “Studies on distribution of E.coli and Salmonella sp in drinking water”.
 - “Studies of Antibacterial activities of Azadirachta Indica L on certain foliar pathogens”.
 - “Studies on rapid degradation of organic farm wastes using composite microbial culture and possible utility of degraded material”.
 - “Studies of pathogenic isolates from hospital waste.”
 - “Antibacterial activities to garlic against Staphylococcus aureus and E. coli
23. Participated in International conference of SAARC Countries on “Biotechnology in Agriculture, Industry and environment” 28-30 December 2001 Karad (Maharashtra) and presented following papers.
- “Bacterial Contamination of Ground and Surface water in and around Akola”.
 - Impact of industrial effluent to Akola ecosystem.
 - “Occurrence of Salmonella sp in some commonly used salads”.
 - “Effect of emmersion treatment in reduction of Salmonella from cut-up chicken”.
 - “Microbiological studies on air in hospital environment.”
 - “Isolation of Nicotine utilizing bacteria from thje mouth of tobacco chewers”.
 - “Effect of autoclaved and unautoclaved extracts on growth parameters of tomato”.
 - “Incidences of Candidiasis in and around Akola city of Maharashtra”.
24. Presented the following papers at 89th session of Indian Science Congress at Lucknow, January 3-7, 2002.
- “Bacteriological status of drinking water in Akola city of Maharashtra.”
 - “Antibacterial activities of some Angiospermic plant”.
 - “On Glucosyl thioureides, Synthesis, Antibacterial and Antifungal studies of certain 2-5 tetra – 0-beneyl-D-glucogranasul-1, 5-disnbsitnted 2,4, isodithisbnnets.
25. Participated at NAAC sponsored state level one day workshop on “Quality education NAAC Perospective” at V. G. Vaze College, Mumbai, on 2nd February 2002.
26. Participated at NAAC-Seminar, sponsored by Dept. of Education, Govt. of Maharashtra & Mulje Mahavidyalaya, Darwa, Dist. Yawatmal.
27. Participated and presented following paper at 45th Annual Conference of Association of Microbiologists of India, held at Department of Microbiology CCS Haryana Agriculture Uni. Hisar, 11-13th Dec. 2002.
- “Effect of Plant extract on seed germination and crop growth rate of cereal crops. AM 20, pp 18.
 - Effect of wheat husk amendment on soil microbial population in relation to crop growth response of wheat C. V. Lok 1 AM21, pp 19.
 - “Study of antibiotic resistance pattern of urinary tract isolates from Akola city MUM-2, pp. 63.
 - “Determination of Water Quality Index (WQI) of a surface water sources of Akola city of Maharshtra, MUM – 7, pp 65.“Therapeutic uses of ‘Miracle Water’ MUM – 15, 68.

- e) 'Microbial quality of ice samples and their products of Akola city of Maharashtra, MUM –16, pp 68.
 - f) 'Studies on microbial quality of market fast food sales, at Akola city of Maharashtra. MUM-17 pp-69.
 - g) 'Microbial Studies on nosocomial infections in hospital 'MUM – 18, pp-69.
 - h) 'Antifungal activity of some medicinal plants against two phylopathogenic fungi BC-22, pp.175.
 - i) 'Antibacterial activity of some medicinal plants' BC-23, pp 175.
28. Participated at 90th Session of Indian Science Congress at Indian Institute of Science, Bangalore 3-7 Jan. 2003 and presented a paper entitled "Water Quality Index (WQI) of Morna'.
 29. Participated at National Conference on Ethanobotany, Biodiversity and Conservation, Organised by Shri Shivaji College, Akola, from 18th to 19th Jan. 2003.
 - a) 'Effect of Plant extract on seed germination and crop growth rate of crops in Vidharbha region'. Pp-14.
 - b) 'Evaluation of some plant extracts for their antifungal activity against Fusarium oxysporium, pp. 16.
 - c) 'Investigation on the antibacterial properties of some medicinal plants pp-17.
 - d) 'A Survey of market fast foods for their potability in Akola city of Maharashtra' pp 18.
 - e) 'Physiological responses of some bacteria to Chromium from water bodies, pp. 37.
 30. Participated at Workshop for Principals of Affiliated colleges of Amravati University at RDG College, Akola Organized by Amravati University, on 14 June 2003.
 31. Participated at National workshop on 'Municipal Solid waste management, Amravati University, Amravati, July 25-26 (2003) and presented paper.
 32. Presented the following papers at 44th annual conference of Association of Microbiologist of India, Nov. 12-14 (2003). Organized by Dharwad University, Dharwad.
 - a) 'Studies on Cholic acid induced potential of antibacterial activity of antibiotics against drug resistant S. aureus'.
 - b) 'Study of the air flora of Akola.
 - c) 'Physiological responses of B. cereus to heavy metals from water bodies'
 - d) 'Microbial quality of Indian fermented food products'.
 - e) 'Antimicrobial activity of Karakatshingi'.
 - f) 'Antibacterial activity of some plants form Gullarghat forest'.
 - g) 'Studies on antibiotic & Chlorine resistance in coliform isolated from drinking water from various public places.'
 33. Participated at National Symposium on drug design and bioinformatics (DDB-03) organized by P.G. teaching Dept. of Biochemistry, Nagpur University 20 Dec. 2003.
 34. Participated and presented following papers at 91th session of Indian science congress at Punjab University, Chandigarh Jan 3- 7 (2004)
 - a) 'Physiological response of water pollution to microflora of water'.
 - b) 'Surface and ground water flora of Akola'.
 35. Participated at NAAC sponsored National Conference on Post Accreditation Initiatives Best Practices in Higher education organized by K.J. Somaiya College of Science and

- Commerce, Mumbai 24th and 25th Sept 2004 and presented a paper entitled environmental education Today and Tomorrow.
36. Participated at UGC sponsored on University Level one day work shop on constants of new UGC syllabus at Shri Shivaji Education Society's Shri Shivaji College of Arts & Science, Chikhali, Dist. Buldhana Oct. 16th , 2004
 37. Participated at University Level One Day workshop on "Post Accreditation Policy Planning" , Organised by Vidya Bharat Mahavidyalaya Amravati October 23, 2004.
 38. Participated at National symposium on Development in Biotechnology, Emerging trends and Challenges and First BRSI convention, organized jointly by North Maharashtra University, Jalgaon and Biotech Research Society of India, Nov 25 – 27, 2004 and presented the following research papers.
 - a) Levels of ammonia and phosphates as indicators of organic pollution of Morna rivers at Akola district of Maharashtra
 - b) Quality status of packaged drinking water.
 - c) Comparative inovits evaluation of phosphate solubilizing potential of nature PSB and commercial P-bioinoculants.
 - d) Antifungal activity of some medicinal plants.
 - e) Studies on pathogenic isolates from Rediatic patients with acute diarrhoeal disease.
 - f) Isolation halophytes from saline belt in and around Akola.
 39. Presented a paper entirled 'Search for resistance Markers in Salmonella sp with the aid of Bioinformations' at 92 th session of Indian Science congress at Ahmedabad, Jr. 3-7 (2005)
 40. Presented following papers at International Conference on 'Modern trends in plant science with special reference to the role of biodiversity in conservation ICPSBC – 05, 17th –20th Feb, 2005, Amravati University, Amravati.
 - a) Studies on the antibacterial properties of Abrms Precatorins and Enblica officinalis.
 - b) Antimicrobial activity of Medicinal Plants Sphaeranthus indicas.
 41. Participated and presented a paper entitled 'Consortium for Academic Excellence,' at National Conference on 'Post NAAC accreditation initiatives for quality enhancement in higher education by science college, Nagpur, 21st and 22nd March 2005.
 42. Participated and presented a paper at 'MicroBiotech-2005' annual Conference of association of microbiologist of India . Organised by Osmania University , Hyderabad,8-10 Dec.2005
 43. Participated at National Conference on 'Quality in higher education.'" Organised by L.R.T. College Akola 15 and 16 Jan 2006.
 44. Participated at state level Conference on NAAC organized by Y.C.M.O.U. Nashik-27 Jan 2006
 45. Participated and Presented a paper entitled, ' Research achievements- A success story of Shri Shivaji College, Akola'. At State level seminar on 'Quality Enhancement Initiatives through Internal Quality Assessment Cell (IQAC), Organised by University of Mumbai and Ghanshayamdass Saraf Girls College, Malad, Mumbai. 21 July.2006.
 46. Participated at University level Conference on Problems of farmers from Vidharba. Organised by Shri Shivaji College, Akola. 7th Dec.

47. Participated at National Conference on Student's participation in Quality Enhancement in Higher education, Organised by Science College, Nagpur. On 22 to 23 Dec.2006 and presented paper on 'University teaching pattern and employmentability.'
48. Participated at One-day conference of Lady Teachers Association of Amravati University, Organised by Shri Shivaji College, Akola, 3rd Jan. 2007.
49. Presented the following research papers at National Conference on Emerging Trends in Medicinal Plants and their Biotechnological Advances, Organised by Dept. of Biotechnology Dr. Ambedkar College, Nagpur, 5th & 6th Jan. 2007.
 - a) In-vitro activities of *Azadirachta indica* (Neem) extracts against the clinical isolates of *Neisseria meningitidis*.
 - b) In-vitro activities of *Azadirachta indica* (Neem) extracts against the isolates of *Neisseria meningitidis*.
50. Participated and presented following 13 research papers at National Conference on Modern Approaches and Innovations in Biotechnology and Biodiversity Conservation. Organised by Shri Shivaji Science College, Amravati, 28 – 30 Jan 2007.
 1. *Helicobacter pylori* infection, interlinking 1B polymorphism, and Indians: Where do we stand?
 2. Utilization of oil seed cakes blend for lipase production using *Rhizomycoflora* consortia.
 3. Comparative in-silico analysis analysis of the conserved region gene 16s RNA from different bacteria.
 4. Studies of different herbal extracts on *Staphylococcus aureus* isolated from pyogenic wounds.
 5. Microbial analysis of rhizosphere of several crop plants from saline soil of Akola.
 6. Studies on antibacterial activities of spices.
 7. Screening of antibacterial activity of several plant extracts against pyogenic bacteria
 8. Isolation and identification of extracellular nuclease producers from soil samples.
 9. Evaluation of *Trichoderma* species for biocontrol potential and study the beneficial activities
 10. Studies on stability of *Azotobacter* strains in nadep compost vermicompost.
 11. Pathogenesis of *Photorhabdus luminecens* against diamond black moth, *Plutella xylostella* (L).
 12. Cholic acid induced potentiation of antibacterial activity of antibiotics against drug resistant clinical isolates.
 13. *Helicobacters* are less prevalent in the stomach of goats : Man is a good host for the bug.
51. Participated at State level Conference of Environmental Awareness. Jointly organized by TREE (team to restore entire environment) and Shri Shivaji College, Akola on 4th Feb. 2007.
52. Participated and presented an invited talk on 'Biological Control of Paste.' at State level Seminar on Recent Trends In Microbial Biotechnology organized by R. C. Patel College of Arts, Commerce and Science, Shripur. 7th and 8th Feb. 2007.

53. Participated and presented an invited talk on ‘Challenges of Biotechnology’ at National seminar on Emerging trends at the Interface of Biotechnology, organized by Dept. of Microbiology PSGVP Mandal’s SI Patil, GB Patel Science and STSKVS Commerce college, Shahada, Dt. Nandurbar. 17,18 Feb.2007.
54. Participated and presented paper at NAAC sponsored state level conference on “teaching –learning process” organized by S.P.College Pune,29th Nov. to 1st Dec.2007.
55. Presented 7 Research papers at State Level, Seminar organized by LAD College, Nagpur, 31 Nov. to 1 Dec, 2007as follows;
- Effect of Allum sativum and Asafoetida northax on phytopathogenic fungi.
 - Evidences of translocation of Endophytic Human pathogens in Licopersicon (L) grown via geophonics.
 - Prevalence of Methicillin Resistant Staphylococcus aureus (MRSA) from Akola.
 - Studies on Pattern of clinical isolates from skin infections against Beta lactum antibiotics.
 - Effects of mouthwashes and Toothpastes against caries inducing Streptococcus mutants.
 - A comparative study of nuclease enzyme obtained from different soil isolates.
 - Effects of Trichoderma on germination of seeds and growth of Soybean crop.
56. Participated and presented paper at 95th Indian Science Congress organized by Andhra University, Vishakhapatanam, Jan. 3 to 7, 2008.
- Studies on different Plant extracts on Antibiotic resistance strain of Staphylococcus (MRSA).
 - Morphological and Biochemical characterization of Nuclease producing bacteria from soil of Akola district.
 - Search for Alternative remedies to fight against predominant Burn infectious pathogens.
57. Participated and presented paper at 96th Indian Science Congress organized by North Eastern Hill University, Shillong, Jan. 3 to 7, 2009.
58. Intercollegiate seminar competitions were arranged for the students of Microbiology, Biotechnology and Biochemistry on 17 Sept. 2006. In which 23 students has delivered seminar on applies microbiology.
59. One day Students conference was organized on 15 Dec. 2007, by the department in which 232 students participated and to part in the deliberations. They were from affiliated colleges. A microbiological exhibition was also arranged on the occasion. Total 103 students participated in models, posters and etc presentation

13. Details of the ongoing projects completed during the last five years:

A. On going research projects with the infrastructure developed out of it :

Sr. No.	Title of the project	Name of the principal Investigator/ Co-ordinator	Funding agency	Amount In Rs. (In lakhs)	Period
1	Obtaining Nucleases from Soil Bacteria.	Kapil.D. Kamble	UGC Major Research	Rs 2,00,000/-	2009-2010

			Project		
2	Antimicrobial activity of herbal extracts of Akola and Melghat region.	Dr.M. Mudaddiq	UGC Major Research Project	8.54 Lakh	2008-2010

B. Research projects completed:

Sr. No.	Title of the project	Name of the principal Investigator/ Co-ordinator	Funding agency	Amount In Rs. (In lakh)	Period
1	Physicochemical and Bacteriological Analysis of water from Akola region	Dr.M.Musaddiq	UGC Minor Research Project	0.380lakh.	2005-2006
2	Search of herbal antimicrobial agents from Akola and Melghat region.	Dr. M. Musaddiq	UGC Minor Research Project	0. 80lakh.	2006-2008

14. Teaching experience:

Course Taught	Name of the University/ College/ Institution	Duration
UG	Shri Shivaji College of Arts, Commerce and Science, Akola	27 Years
PG	Shri Shivaji College of Arts, Commerce and Science, Akola	14 Years
	SGB Amravati University, Amravati	2 Years
	Dr.Babasaheb Ambedkar Marathwada University,Aurangabad	5Years
M. Phil	SGB Amravati University, Amravati	1 Years
Other (Carrier Oriented Programme)	Certificate, Diploma and Advanced Diploma in Biotechnology	3 Years

15. Innovations / Contributions in teaching:

a) Design of Curriculum:

- Developed and designed curriculum for U.G and P.G in Microbiology, Biotechnology, Bioinformatics and Biochemistry for SGB Amravati University, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Shivaji University and SRT Marathwada University.
- Designed curriculum for Career Oriented Programme for Biotechnology, Chemical Laboratory Technology, Hospital Waste Management for SGB Amravati University, Amravati.
- Designed syllabus for career oriented programme of Industrial Microbiology and Wine Technology for Dr.Babasaheb Ambedkar Marathwada University, Aurangabad.

b) Teaching Methods:

- Develop audiovisual Programme and Power point Presentation for most of the Units from UG / PG Course of Microbiology.

c)Remedial Teaching:

- Conducted remedial classes for economically and Socially Backward groups.

16. Extension Activities / Consultancy / Community Works:

- Delivered 52 lectures on environmental pollution and control at schools, colleges, science days and environmental days.
- Delivered 12 public lectures in slum areas on environmental sanitation.
- Delivered 14 lectures under environmental awareness series at all India Radio in Urdu & Hindi.
- Organized several plantation programmes.
- Organized more than 25 blood grouping and blood donation camps.
- Arranging blood for needy persons as director of “Donor’s club” and arranged for about 1000 units.
- Working as Science Project Guide for schools, Three projects had been selected for “National Children’s Science Congress”
- Worked as Judge for Science Seminars and science Exhibitions for secondary and higher secondary students organized by District education officer.
- Project guide for science exhibition for schools, recognized by Indian Science Congress Association.
- Analyzed more than 1000 household water samples for portability and contamination from different locations form Akola city.
- Delivered lectures for carrier guidance and personality development for school and Jr. College students at different places.

17. Role in College Activities:

1. Head of the Department of Microbiology from 1983.
2. Worked as member of several administrative committees.
 - Admission Committee.
 - College Examination Committee.
 - Cultural Activities committee.
 - Science Association
 - Working as project associate in COSIP.
 - Purchase committee etc.
3. Worked as member NAAC steering committee.
4. Working as Coordinator UGC sponsored B.Sc. Biotechnology course, at Shri Shivaji College, Akola, and Science June 2002.
5. Working as Coordinator IQAC of (Internal Quality assurance cell.) of the College.
6. Member post NAAC Cell (PNC) Shri Shivaji Education Society, Amravati.
7. Member Local Managing Committee (LMC), Shri Shivaji College, Akola from 2004.

18. Role in University Activities:

1. Number Board of Studies in Microbiology, Biochemistry and Food Sc. Since last 26 years.
2. Worked in several committees of SGB Amravati University.
3. Worked as member, Selection, Placement, Local Enquiry Committees.

4. Worked as Examiner, Paper setter, Valuer and Moderator for U. G. & P. G. of Microbiology, Biochemistry and Biotechnology at.
 - a. Amravati University
 - b. DBA Marathwada University.
 - c. Aligarh Muslim University.
 - d. Nagpur University.
 - e. Shivaji University.
 - f. Swami Ramanand Terath Marathwada University Nanded.
 - g. North Maharashtra University.
 - h. Maharashtra State Board of Secondary and Higher Secondary Education, Pune.
 - i. Maharashtra Board of Technical Education.
 - j. Holkar Science College, Indore (M.P.)
 - k. Maharashtra Public Service Commission (MPSC)
 - l. Barkatullah Vishwavidyalaya, Bhopal

19. Membership / Participation in Activities of National Development:

1. Delivered lectures on environmental pollution and control at schools, colleges, science days and environmental days.
2. Delivered public lectures in slum areas on environmental sanitation.
3. Delivered lectures under environmental awareness series at all India Radio in Urdu & Hindi.
4. Organized several plantation programmes.
5. Organized blood grouping and blood donation camps.
6. Arranging blood for needy persons as director of "Donor's club".
7. Working as Science Project Guide for schools, Three projects had been selected for "National Children's Science Congress"
8. Worked as Judge for Science Seminars and science Exhibitions for secondary and higher secondary students organized by District education officer.
9. Project guide for science exhibition for schools, recognized by Indian Science Congress Association.
10. Arranged workshops in schools for science teachers for experimental communication of subject knowledge for effective communication.
11. Co-operated in National literacy Programme

20. Membership of Editorial Board of Journal:

- a) Pollution Research, Published by Enviromedia (ISSNO257-8050)
- b) Biotechnology in Agriculture, Industry & Environment, Proceedings of International Conf. Of SAARC countries, Microbiologist Society, Karad.
- c) Journal of Microbial World, Microbiologists Society of India

21. Any Other Information:

Participation In Refresher Courses:

1. Participated in orientation programme at Aligarh Muslim University, Aligarh from Oct. 6 to Nov. 8, 1988.

2. Participated in Refresher Course in Molecular Microbiology at Madurai Kamraj University, Madurai (T. N.) from April 23, to April, 12, 1990.
3. Participated in the Refresher course in Biochemistry at Poona University Pune, from July 8 to Aug, 4 1992.
4. Participated in the Refresher course in life science at Nagpur University, Nagpur from June 22 to July 5, 1998.

A. Honors and awards to Dr. M. Musaddiq (From 2005-2009)

Sr. No	Honor	Place/ event	Date	Topic/ theme
1	Resource Person	At Refresher Course in Life Science in Dr. Babasaheb Amedkar Marathwada University, Aurangabad,	22/11/2005	“Water pollution and its control”
2	Resource Person	At Orientation Programme, at Shivaji University, Kolhapur	13/12/2005	“ Post NAAC activities”
	Resource Person	At Orientation Programme, Organized by Academic Staff College, Nagpur University, Nagpur	22 Jan 2006	“ Departmental administration’
3	Keynote address	At “RTMB-07”, Organized by Dept. of Microbiology and Biotechnology, R.C. Patel College of Arts, Commerce and Science, Shirpur.(Maharashtra)	7 & 8 th Feb. 2007	“ Biopestives- Their efficiency and Acceptability”
4	Keynote address	At UGC and CSIR sponsored National Conference on Resent Trends in Interface of Biotechnology. Organized by PSGV Mandal’s College of Science, Shirpur Dt. Shahada.	17 & 18 th Feb. 2007	‘Biofertilizers- their today and tomorrow”
5	Chairman, Board of Studies	Elected as Chairman, Board of Studies in Biochemistry, Microbiology and Food Science, SGB Amravati University, Amravati	From 2007	---
6	Resource Person	At Refresher Course in Environmental Science in Dr. Babasaheb Amedkar Marathwada University, Aurangabad,	13/9/07	“Sustainable Development”
7	Resource Person	At Orientation Programme, Academic Staff College, Dr. Babasaheb Amedkar Marathwada University, Aurangabad,	18/11/07	“ Reaccreditations process- More challenging”
8	Resource Person	Student’s Workshop on Biodiversity, Organized by L.R. T. Science College, Akola	31/Jan. 2008	“ Microbial Biodiversity”
9	Invited Talk	Montesary Mahila Kalasala, Vijaywada.	20 Jan. 2008	“ Sustainable Development through microbial Technologies”

10	Co-opted, and nominated	Member, Board of Studies in Microbiology and Biotechnology, Dr. Babasaheb Amedkar Marathwada University, Aurangabad,	From 2008	----
11	Resource Person	At Refresher Course in Environmental Science in Dr. Babasaheb Amedkar Marathwada University, Aurangabad,	28 th Sep. 2008	“ Waste water management”
12	Resource Person	At Orientation Programme, Academic Staff College, Dr. Babasaheb Amedkar Marathwada University, Aurangabad	2 Dec. 2008	“Translating the syllabus before teaching.”
13	Resource Person	Student’s workshop on Biodiversity, at Jijamata College, Buldana.	22/ 01/ 2009	“ Microbial Diversity”
14	Resource Person	SGB Amravati University, Dept. of Microbiology, M. Phil. Programme.	22 to 27 April 2009	“ Environmental Management through Microbial Technologies”

Details of the ongoing projects completed during the last five years:

B. On going research projects with the infrastructure developed out of it :

Sr. No.	Title of the project	Name of the principal Investigator/ Co-ordinator	Funding agency	Amount In Rs. (In lakhs)	Period
1	Obtaining Nucleases from Soil Bacteria.	Kapil D. Kamble	UGC Major Research Project	Rs 2,00,000/-	2009-2010
2	Antimicrobial activity of herbal extracts of Akola and Melghat region.	Dr. M. Mudaddiq	UGC Major Research Project	8.54 Lakh	2008-2010

C. Research projects completed:

Sr. No.	Title of the project	Name of the principal Investigator/ Co-ordinator	Funding agency	Amount In Rs. (In lakh)	Period
1	Physicochemical and Bacteriological Analysis of water from Akola region	Dr. M. Musaddiq	UGC Minor Research Project	0.380lakh.	2005-2006

13. Seminar/Workshop/Conferences Conducted:

Sr. No.	Name of Conference/Seminar	Theme	Dates	Sponsored By
1	Recent trends in	Exploitation of	14 Dec.	Dept. of Microbiology &

	Microbiology	useful microorganisms		Microbial Society Karad
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14. Method of continuous assessment of the students:

- Through unit tests, practical tests, seminar, and personal observation regarding their academic performance, and terminal examination for yearly patterns students.

15. Participation of teachers in academic activities other than teaching and research:

- The teachers participate in co-curricular and extra circular activities of the college and worked in the organization committees of several activities like conferences, youth festivals and sport meets etc.
- Dr. M. Musaddiq is Chairman, Board of Studies of Biochemistry, Microbiology and Food Science, at SGB Amravati University and Member Academic Council and Co-opted member of Board of studies of Microbiology and Biotechnology at Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. He is member of several committees of both the university. He is research guide and member Research Recognition Committee at Yashwantrao Chavan Open University, Nashik. Another staff member, Mrs. A. S. Pethe is also member of board of studies of Biochemistry, Microbiology and Food Science, at SGB Amravati University.
- Dr. Mrs. C. S. Uhesh has worked as in charge of NNS activities for several years.
- Dr. M. Musaddiq is Member on editorial board of two national journals.
- Academic audit is an important activity of the college. Senior staff members help in it.

17. Participation of the department in the extension activities.

Department is involved in extension activities.

- Dr. M. Musaddiq has delivered lectures at several UGC sponsored Orientation programmes and Refresher courses, at different Universities.
- Dr. M. Musaddiq has delivered lectures at different colleges and schools, especially on topics related to environmental awareness. Other staff members also are invited at various institutions time to time.
- Staff members visit the villages and train the villagers about environmental management, AIDS awareness, Plantation etc.
- Staff members of the department guide the students of several schools for their projects; two schools have participated at National Children's Science Congress.
- Blood grouping and Blood donation to needy persons.

18. Participation of the department in the consultancy activities.

- Department has a consultancy programme of physicochemical and Bacteriological analysis of drinking water. Dept. has analyzed 850 samples during last five years.
- Dr. M. Musaddiq is advisor to State Pollution Control Board for Buldana and Akola Districts for water and waste water related technical advice.

19. Plan of action of the department for next five years:

- Introduction of new courses like Carrier Oriented Programme in the field of Applied Microbiology, to fetch significant job avenues for the students and also involvement of the microbiology oriented industries in the departmental research activities.
- Increase the rate of PG and research students at various competitive examinations like NET, CSIR, UGC, GATE etc.
- Strengthen the existing research activities for the development of the region in collaboration with research organizations and industries