



1. Name : **Dr. Satish Sudhkarao Patil**
M.Sc., Ph.D. (Env. Sci.)

Professor & Head, Department of Environmental Science,
Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

Director, Central Facility Advanced Research & Training,
Dr. Babasaheb Ambedkar Marathwada University, Aurangabad

Tel : (0240)-2403322/323

Mobile : 09422707261

Res. No. : (0240)-2358176

Fax: 0240-3113

E-mail sushshrey@rediffmail.com

sushshrey@yahoo.com

satishpatilsir@gmail.com

2. Statutory : **Director**, Board of Colleges & University,
Position Held : Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

Incharge Officer, Academic & Planning,
Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

3. Address : **Office:**
1] Department of Environmental Science,
Dr. Babasaheb Ambedkar Marathwada University, Aurangabad

2] Central Facility for Advanced Research & Training,
Dr. Babasaheb Ambedkar Marathwada University, Aurangabad – 431004.

Residence:

A5, Row Bungalow Jabinda Residency, Devanagri,
Shahnoor wadi, Aurangabad – 431001.

4. **Date of Birth** : February 22, 1967
5. **Category** : OPEN
6. **Nationality** : INDIAN
7. **Marital Status** : MARRID
8. **Academic Qualification** : M.Sc. [Environmental Science] & Ph.D.
9. **Teaching Experience** : 26 Years
10. **Patent Published** : 02
1. Ecological sanitation approach in a constructed wetland using angular horizontal subsurface flow and angular horizontal subsurface zigzag flow pilot plant novel models

Application Number : 3390/MUM/2015

Published Date : 18/09/2015

2. Phyto-purification treatment of sewage using pennisetum purpureum through angular with zigzag or circular horizontal subsurface flow (AZHSSF) constructed wetland

Application Number : 201621010599

Published Date : 13/05/2016

11. Vision Mission

Offering holistic innovative, high quality liberal education through professional programs dedicated for academic excellence, emerging regional service, social reforms and pursuits of highest acumen of ethics.

Objectives

- 1) Fostering quality education and equitable access to higher education
- 2) Bridging social, regional and gender gaps in education.

- 3) Providing platform for skill development and enhancing employability and entrepreneurial characters.
- 4) Ensuring that young people who are outside the formal education system are to be provided opportunities to attain skills for employability.
- 5) Professionalising and enhancing the capacity of institutional leadership, educational leadership to respond emerging educational priorities and demands of expanding education sector.

Challenges in Higher Education

- 1) Strong education system.
- 2) India can no longer continue the model of general education
- 3) University has a crucial role to play in promoting social change.
- 4) Total networking of the system has become an important issue for effective management.
- 5) Inadequate infrastructure and facilities,
- 6) Large vacancies in faculty positions and poor faculty thereof,
- 7) Low student enrolment rate,
- 8) Outmoded teaching methods,
- 9) Declining research standards,
- 10) Unmotivated students,
- 11) Overcrowded classrooms
- 12) Education in basic sciences and subjects that are not market friendly has suffered.
- 13) Research in higher education institutions is at its lowest ebb.
- 14) There is an inadequate and diminishing financial support for higher education
- 15) Many colleges established in rural areas are non-viable, with just few teachers
- 16) Continuous up-gradation of curriculum to keep in pace with rapid growth of science and technology; globalization and the resultant challenges from the international universities
- 17) ATLEAST 10% increase in the fund for the education system but never implemented in that area.
- 18) Today's youth always try to go foreign for his higher education (brain drainage)
- 19) There is no creativity in students. Our top class students are hard-worker but not innovative.
- 20) ICT in higher education policy may not be able to completely overcome all these challenges

Suggestions for improvement

- 1) Towards a Learning Society- : measures will have to be taken to refine, diversify and upgrade higher education and research programmes.
- 2) Industry and Academia Connection-
- 3) Incentives to Teachers and Researchers-
- 4) Innovative Practices-
- 5) To mobilize resources-: Students at lower economic levels can be given highly subsidized and fully subsidized education.
- 6) Student-Centered Education and Dynamic Methods-
- 7) Public Private Partnership- PPP
- 8) To Provide Need Based Job-Oriented Courses
- 9) International Cooperation
- 10) Quality development- research and scholarship, staffing, students, facilities, equipments
- 11) World Class Education- uniform international syllabus in its educational institutions.
- 12) Personality Development- skilful men.
- 13) Fair Quality Assurance System-
- 14) To increase Quantity of Universities
- 15) Examination Reforms-
- 16) High-tech Libraries
- 17) Open and Distance Learning & MOOCs
- 18) Internationalisation of Education

Master Plan for Overall Development of University:

1. To plan for sustainable long term growth of the University to meet its strategic goals and Government objectives for higher education
2. To plan for an integrated University optimising the use of its established successful campus
3. To foster a 'campus community' where staff, students and those external to the University can come together to learn, study, research and interact to further human knowledge and understanding
4. To provide a robust and flexible framework for development of the campus to meet current and future needs

5. To provide residential accommodation on or near campus for a high proportion of students and an increasing number of staff to maximise their contribution to campus life
6. To pursue a sustainable future for the University and demonstrate long term stewardship of the environment by protecting and enhancing landscape character
7. To develop further as a social and economic asset to the local community and the region, in broad accordance with government policy objectives
8. To bring in changes in the present evaluation/learning process so as to bring in more transparency.

12. Position held & Recognition by an Academic Organization

Sr. No.	Position	Name of the University College Institution	Duration
1.	Head of the Department	Department of Environmental Science, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.	August 28, 2017 till today
2.	In-Charge Officer	Planning & Academics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	March 01, 2017 till July 31, 2017.
3.	Director	Board of Colleges & Universities Development, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.	July 11 th , 2016 till March 1, 2017
4.	Director	Central Facility for Advanced Research & Training, Dr. B. A. M. University, Aurangabad.	10 th July 2015 till today
5.	Coordinator	Science & Technology Park, Dr. B. A. M. University, Aurangabad	June 2016 till today
6.	Coordinator	Fresh Water Field Station at Paithan	From July 2012
7.	Head of Department	Department of Environmental Science, Dr. B. A. M. University, Aurangabad	2006-08
8.	Professor	Department of Environmental Science, Dr. B. A. M. University, Aurangabad	June 2011 till today

9.	President	Dr. Babasaheb Ambedkar Marathwada University Teachers Association, Aurangabad.	2013-14.
10.	Advisor	ECOCERT – France (Govt. Approved organic certification Agency) for South Asian countries.	Dec. 2012 till today
11.	Chairman	Adhoc board of Environmental Science, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.	Aug 2006-2008
12.	Co-ordinator	National Science Day, Dr. B. A. M. University, Aurangabad.	2014-15 & 2015-16.
13.	Member	Action Plan 2020 and vision 2020 of Maharashtra Pollution Control Board, Forest Department and Wild life department of Govt. Of Maharashtra for Aurangabad division.	2012-13
14.	Executive Member	“Environmental Research Foundation & Educational Academy” Aurangabad.	From 2007 till today
15.	Fellow member	International Congress of Chemistry and Environment, (FICCE) Indore.	-
16.	Fellow Member	Indian Association of Aquatic Biologists (IAAB), Hyderabad.	-
17.	Life Member	Indian Society for Comparative Animal Physiology (ISCAP), Tirupati.	-
18.	Life Member	Indian Journal of Environment and Eco-planning, Dumka.	-
19.	Joint Secretary	Indian Society for Comparative Animal Physiology form	1999-2001
20.	Chairman	Board of Examinations in Environmental Science, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.	2006-08
21.	Member	Adhoc Board of Environmental science, SRT University, Nanded.	2012-14
22.	Member	Adhoc Board Dr. Babasaheb Ambedkar Marathwada University	2011-13

23.	Member	Board of studies in Environmental Science in Gulbarga University, Gulbarga, (Karnataka).	2011-13
24.	Member	Board of studies in Environmental Science in Kuvaumpu University, Shimoga, (Karnataka).	2014-16
25.	Member	Internal Subject Expert on RRC of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.	2012-17
26.	Director	Dr. Babasaheb Ambedkar Marathwada University Teachers Credit Co-operative Society, Aurangabad	From 2005 till today

Developmental Plan of Department:

1. To establish University's International Field Station at Nathsagar near Paithan for conducting research and extension programme in environmental and biological sciences. The centre will facilitate freshwater research, aqua culture practices for fishermen and local communities, environmental awareness programmes, training for organized groups, farmers, industrial workers, women's groups, students etc. and web based information and lakes and reservoir in Maharashtra, India & South Asia.
2. Installation of wind – solar hybridized energy tower's to the side hills of the university campus to cater the need of electricity of the university by generating approx 148 KVA of electricity.
3. Installation of Sewage Treatment Plant (STP) for domestic wastes from offices, hostels, guest houses and Residential quarters and Effluent Treatment Plant (ETP) for the wastes from chemical laboratories in the university campus and to recycle the waste water for gardening, irrigation etc in the campus.
4. Installation of Weather Monitoring Centre for online monitoring of ambient air quality and air polluting parameters in the campus.
5. To establish placement cell at departmental level to create job opportunities to post graduate and research students.
6. To start innovative short term courses/ trainings on various aspects of environment for the better employment opportunities.
7. To accredit departmental Laboratories and Research Laboratories through NABL, MoEF, CPCB & ISO 14000 etc.
8. Collaboration with industries/other universities/ institutions for sponsored research, projects,

consultancies etc.

9. To equip departmental research laboratories with sophisticated instruments/ software's to provide better opportunities for research and consultancy services.
10. To beautify the campus by planting environmental friendly species of plants and threatened species/ endemic species, Medicinal species, commercial plants etc.
11. To adopt a village every year to study the several aspects of Socio-Economic & sustainable development rural poor.
12. To form an alumina association for advise and generation of funds for departmental infrastructural and academic development.

13. Contribution to the University as a Director, BCUD:

- I. Successfully performed the multiple responsibilities simultaneously like Director, B.C.U.D , Head of Department , Director of CFART, Coordinator Science & Technology Park, Member of BOS, Chairman of Ad-hoc Board, Member of Senate, Member of RRC Committee, guiding research students, completion of high priority projects within deadline along with teaching.
- II. Successfully implemented the Online PET (Ph.D Eligibility Test) Exams and Online Ph.D Program from Registration to Ph. D Notification along with fess and documents.
- III. Successfully implemented the Online P.G Entrance Exam and program for Online admissions of P.G students to complete the timely admissions in the university campus as well as affiliated colleges from the academic year 2017-18.
- IV. Implemented CBCS in undergraduate courses with newly framed syllabus and CBCS guidelines.
- V. Brought academic discipline by the way of reformation in affiliation formats, CHB approvals, affiliation to the new courses, approval to principals from granted and non-granted colleges, approval for new research centres and P.G Teachers etc.
- VI. Carried out reconciliation of affiliation fees, new college proposals, new courses, additional divisions for graduate and post-graduate courses in granted and non-granted colleges from the year 1998-99 to 2016-17.
- VII. Brought academic discipline in order to maintain, monitor and regulate the roasters for the appointment of the post of teaching and non-teaching at the colleges, institutes and university level as per the norms of government.

- VIII. Organized meetings to approve the work plan and recruitment posts of colleges and institution and university as per the norms of Government and Statute and ordinances made from time to time and accordingly issued the permission letters to the colleges and institutes for advertisements of the various posts of teaching and non-teaching.
- IX. In the capacity of member and chairman of boards and Ad-hoc boards, revision and framing of the syllabus has been carried out to provide the skilled man power to the industry and other stakeholders of the society.
- X. Assessed the manpower requirements of trained persons in different fields, such as commerce, industry, social service, science and technology and make necessary recommendations to the Academic Council introducing and strengthening of relevant courses of study.
- XI. For the curriculum development, various international and national conferences, seminars, training program, refresher courses and workshops have been organized to cater the need of researchers, academicians and industrialist in the advances area of Environment Science.
- XII. During my academic career of around 25 years, I have worked in various academic and administrative capacities like Director BCUD, Head of Department, Director, CFART, Coordinator Science and Technology Park, Co-coordinator Fresh water field station at Paithan as well as Coordinator of Science Researcher Forum on campus.
- XIII. Motivated the students for higher Studies and Research Programs and active participation in the state level research competition AVISHKAR, National Science day, Indradhanushya and other state/national level student activities for their overall development.
- XIV. Motivated and encouraged students for taking higher education and lead to productive research for the own and betterment of society.
- XV. Organized academic audit of development and collaborative programmes of university, institutions or departments, post-graduate centers and colleges, according to the provisions of the Statutes at least once in three years or earlier, if deemed necessary and make necessary recommendations to the university for implementation.
- XVI. Provide opportunities to faculties to get involved in decision making process and strategic planning through the department committee meetings.
- XVII. Promoted research activities to inculcate the importance of research specifically at under-graduate and post-graduate level students through various innovative and research

programmes organized locally by inviting eminent scientists, Nobel Laureates, Industrialists through symposia, seminar, workshop and conference.

- XVIII. Promoted young scientist and researchers to file and acquire the Patents about their research and outcome.
- XIX. Promoted the academic and research activities to enhance the academic and research excellence at college and university level by establishing the virtual classroom, distance education and e-learning/resource consortium by which we can able to bridge the gap of National and International level of education by involving Senior Researchers and Professors in advanced and specialized area of various fields from the globe with a necessary financial provision in the annual budget book of the university.
- XX. The collaborative programmes have been initiated in light of promotion of students and research activities to bridge the gap between academia and industry at Department, University and Industry level.

14. Other Additional Information of relevance

- Filed Patent on "Ecological Sanitation approach in a constructed wetland using angular horizontal subsurface flow and angular horizontal zigzag flow pilot plant novel models" in September 2015.
- Filed Patent on "Phyto-Purification Treatment of Sewage using pennisetum purpureum through angular with zigzag or circular horizontal subsurface flow (AZHSSF) constructed wetland in May 2016.
- Nomination of DBT Representative in the institutional bio-safety committee in the R & D Centers at the Institutions / Universities / Industries/ any other organization involving genetic manipulation of genetic materials, microorganisms, plants or Animals for three years by Ministry of Science and Technology, Department of Biotechnology Govt. of India from 1st April 2009 to 31st March 2012.
- Delivering environmental awareness and environmental educational lectures in school, colleges and different Universities in all over the Maharashtra as a subject expert.
- Carried out preliminary studies and benchmark survey on bio-monitoring and management of Godavari river water for sustainable utilization.
- Carried out preliminary studies on water quality of Kham river and benchmark survey for the treatment and disposal of domestic sewage of Aurangabad city through cleaning of river by using eco-technologies like green bridge and green lake technologies.

- Delivered a lecture on 15/10/2013 as resource person in the Refresher course in Environmental Science organized by the UGC Academic Staff College, University of Pune at the Padmashri Vikhe Patil College Pravaranagar during 3rd to 23rd October 2013.
- Delivered two lectures on 27th January, 2014 to the participants of 101st Orientation course programme as resource person.
- Delivered two lectures on 4th February 2014 to the participants of 102nd Orientation course programme as resource person.
- Delivered lectures to the participants of Pre-Ph.D course in Zoology as a Resource person (Delivered 02 lectures on 13/08/2014)
- Delivered an invited talk in the International Conference on "Biotechnology and Bioengineering" organized by Microbiologist Society, India Dr. Babasaheb Ambedkar Marathwada University, Aurangabad & Birla Institute of Technology & Science, Pilani, and Dubai Campus (U.A.E) during 29th -30 October 2014.
- Chaired a session and Delivered and an invited talk in the International Conference on Biotechnology and Bioengineering" Organized by Microbiologist Society, India Dr. Babasaheb Ambedkar Marathwada University, Aurangabad & Birla Institute of Technology & Science, Pilani, Dubai Campus (U.A.E) During 29th -30 October 2014.
- National symposium on Environmental issues and strategies for sustainable development 23-25 January, 1998. (Academic Co-coordinator)
- National Seminar on Environmental awareness and natural resources conservation 25- 27 December, 1998. (Academic Co-coordinator)
- 20th Annual Conference of Indian Society for comparative animal physiology and symposium on environment and human health. 28-30 January, 1998 (Organizing Secretary).
- Seminar on Paryavaran Saunrakshan and prashikshan. 12th March, 2003 (Organizing Secretary)
- National Conference on Emerging pollutants: Impact on Health, Agriculture and Environment. 29 – 31 January 2004 (Organizing Secretary).
- Workshop on "Hazardous waste management – A priority issue" 28 & 29th March, 2007 (Convener).
- National Conference on "Advances in Pollution Control Technology" 26th and 27th February 2008. (Convener)
- Seminar on "Carrier opportunities in Environmental Science". 31st July 2011. (Convener).

- National Conference on "Industrial Waste water Reuse, Recycle and Zero Discharge". 5th & 6th March 2012. (Convener).
- 15th Refresher course in Environmental Science conducted by UGC- Academic Staff College, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad from 1-12-2006 to 22-12-2006 as Course Coordinator
- 1st Refresher course in Environmental Science conducted by UGC- Academic Staff College, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad from 6-3-2008 to 26-3-2008 as Course Coordinator
- Refresher course in Environmental Studies conducted by UGC- Academic Staff College, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad from 08-08-2011 to 28-08-2011 as Course Coordinator
- Worked as a Custodian and CAS Officer in the CAS Centre of Dr. B.A.M. University, Aurangabad.
- Involved for the inauguration of Marine research laboratory of Dr. B.A.M. University, Aurangabad at Ratnagiri.
- Work as coordinator for 03 refresher courses in Environmental Science.
- Worked as a member of the annual report committee for the year 2001-2002 of Dr. B.A.M. University, Aurangabad.
- Visited U.G.C. office Delhi for the official work in connection with submission and approval of the building proposals from the commission under 9th plan scheme in 2002.
- Working as a member of Department Committee.
- Working as a member of Department Purchase Committee.
- Working as Examiner for Theory and Practical at M. Sc. level.
- Involved actively in the NAAC Program and U.G.C. visit to Department of Environmental Science, Dr. B.A.M. University, and Aurangabad.
- Accompanying for the students excursion program since 1996.
- Worked as a member of Local Enquiry Committee on several colleges
- Worked as selection committee member as a subject expert in KSK College Beed, S. B. Science college and Deogiri college of Dr. B. A. M. university & SRT university Nanded.
- Worked as affiliation committee member for several colleges.
- Worked as a Member of Golden Jubilee celebration committee of Dr. B. A. M. University, Aurangabad.
- Worked as a Member of Development Grant Utilization Committee in 2007.

- Worked as presiding Officer in Assembly and Parliamentary election of Aurangabad district.
- Worked as a steering committee Member in Avhan camp organized by University from 9th to 20th June, 2009.

15. Teaching Experience

Sr. No.	Courses Taught	Name of the University College Institution	Duration
1.	Under – Graduate (B.A./B.Sc./B.com etc. pass) (B.A./B.Sc./B.com etc. Hons.)	Nutan Mahavidyalaya, Sailu, District Parbhani	15 th June 1991 to 14 th June 1993
2.	Post Graduate (M.A./ M.Sc./M.Com etc.)	P.V.P. College Pravaranagar	1 st September 1993 to 14 th June 1996
		Department of Environmental Science, Dr.B.A.M.University, Aurangabad.	15 th June, 1996 till today
3.	Any other	Guiding for Ph.D. Students	Since 1999

16. Research Projects Completed/Ongoing

Title of the Project	Name of the Funding Agency	Amount/ Duration	Remarks
1. Base levels of Mercury, Cadmium and lead in fresh water bivalve molluscs, <i>Lamellidens corrianus</i> (Lee) from Nandrabad swamp near Aurangabad City.	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.	60.000/- 2 years	Minor Research Project Completed In 1999.

2. Water quality assessment of Salim Ali Lake near Delhi Gate, Aurangabad.	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.	40,000/- 1 year	Minor Research Project Completed In March 2000.
3. Water quality assessment of lentic areas in the vicinity of Aurangabad city.	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.	1,00,000/- 1 year	Minor Research Project Completed In March 2002.
4. Impact of heavy metals on the fresh water bivalve molluscs, <i>Lamellidens corrianus</i> (Lee) from Nandrabad swamp near Aurangabad city.	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.	1,00,000/- 2 years	Minor Research Project Completed In March 2002.
5. Faunal diversity of mangroves on the coast of Maharashtra with specific reference to their biotic potential	Ministry of Environment and Forest, New Delhi	1,88,000/- 2 year	Major Research Project completed in April 2003.
6. Diversity of bivalve molluscan fauna in the lotic and lentic environment of Aurangabad district with specific reference to their biotic potential.	University Grants Commission, New Delhi	4,58,000/- 3 years	Major Research Project completed in December 2007
7. Impact of Urbanization on Avian fauna of Salim Ali Lake at Aurangabad.	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.	60,000/- 2 years	Minor Research Project Completed-2009
8. Ecosustainability Assessment of Godavari River Water for Sustainable Utilization.	University Grants Commission, New Delhi	7,58,000/- 3 years	Major Research Project Completed-2012

9. Assessment of Bird Sanctuary at Jaikwadi Dam with reference to Galpera Fishing.	Irrigation Department Gov. of Maharashtra.	15,00,000/- 2 years	Major Research Project. (On going)
10. Environmental Status Report (ESR) of Aurangabad Corporation Area.	Aurangabad Municipal Corporation	7,50,000/- 6 Months	Consultancy Project (On going)
11. Ecology and Biodiversity Studies of Jaikwadi Dam for parallel water supply scheme of AMC. Collaboration with ERFEA	Aurangabad Municipal Corporation	16.5 lakhs	Consultancy Project Completed 2015
12. Assessment of Ecology and Biodiversity studies of Jaikwadi dam in the proposed construction site of Jackwell, pump house and RCC Approach Bridge for centralized water supply scheme of MIDC, Aurangabad. Collaboration with ERFEA	Maharashtra Industrial Development Corporation (MIDC) Aurangabad.	18.5 lakhs	Consultancy Project Completed 2015

17. Particulars of Research Guidance :

Name of the Student / Date of Registration	Research Topic	Remark / Date of Declaration
1. Mr. Auti R. G. July-2001	"Seasonal variations in the water characteristic and macro faunal distribution in Salim Ali Lake near Delhi gate, Aurangabad."	Awarded Ph.D. degree in June 2003

2. Mr. J.M. Patwari July-2000	"Water and soil characteristics of a pond at Nandrabad on the habitat of bivalve <i>Lamellidens corrianus</i> ."	Awarded Ph.D. degree in June/05/2003
3. Miss. K.A Zadbide.	"Heavy metal level and their detoxication mechanism in bivalve molluscs from Maharashtra state."	Awarded Ph.D. degree in August/02/2003
4. Mr. G.M. Pondhe July-2003	"Impact of Agrobases industries on the groundwater quality of Sonai area, Dist. Ahmednagar."	Awarded Ph.D. degree in February /27/2006
5. Miss. V.B. Inamdar July-2000	"Environmental life cycle assessment of cereal crops under chemical and organic production systems."	Awarded Ph.D. degree in January/23/2007
6. Mr. S.B. Shinde July-2003	"Diversity of fresh water bivalve molluscan fauna from Aurangabad district with reference to their biotic potential"	Awarded Ph.D. degree in December/11/2008
7. Mr. B.J. Dahiwale July-2004	"Diversity of benthic macro invertebrates with respect to hydro biological characteristics of Sukhna dam near Aurangabad."	Awarded Ph.D. degree in September/22/2008
8. Mr. R.R. Matkar July-2004	"Eco-sustainability assessment of Godavari river water at Jaikwadi dam supplied to Aurangabad city."	Awarded Ph.D. degree in January/17/2009
9. Mr. R.G. Machale July -2004	"Impact of agro based industries on the ground water quality of Rajuri area, Dist. Beed."	Awarded Ph.D. degree in September/06/2010

10. Mr. R.D. Joshi May-2006	"Effect of sugar mill effluent on soil micro flora and ground water quality of Ambejogai area."	Awarded Ph.D. degree in February/04/2011
11. Mr. D. D. Yardi July -2005	"Eco-sustainability Assessment of Jayakwadi dam with reference to bird sanctuary "	Awarded Ph.D. degree in August/16/2011
12. Mr. K. L. Karkare July-2006	"Disaster management in developed and developing countries."	Awarded Ph.D. degree in September/30/2012
13. Mr. M.D. Wagh July-2009	"Ground water chemistry of Agro based Industrial area of Deola Dist. Nahik".	Awarded Ph.D. degree In February/18/2013
14. Mr. V.R. Jadhavar July -2009	"Impact of Chemical Industries on the water quality of Nagothane- Roha Industrial area of Raigad District, Maharashtra".	Awarded Ph.D. degree In April/02/2013
15. Mr. C.B. Pawar December-2008	"A study of Watershed Development & its Management at Kadegaon, Khanapur & Atatadi Taluka in Sangli District of Maharashtra".	Awarded Ph.D. degree In June,12/2013
16. Mr. A.S. Hassan July -2005	"Ground water quality of Aurangabad industrial area"	Awarded Ph.D. degree In June/29/2013
17. Mr. I.B. Ghorade July -2011	"Eco-sustainability Assessment of Godavari River Water for Sustainable Utilization	Awarded Ph. D. degree In July 07/2014.

18. Mr. H.D. Gandhe December-2005	" Impact of urban sewage and industrial effluent on the ground water quality in the vicinity of Ahmednagar city"	Awarded Ph.D. degree In September 12/2014.
19. Miss. M.S. Zagare July -2009	"Environmental Impact Studies on Microbial quality of Dairy Pack Food".	Awarded Ph.D. degree In October 13/2014.
20. Mr. V.P. Dhulap	" Studies on the use of constructed wetland for the treatment of wastewater"	Awarded Ph.D. degree
21. Mr.S.V. Lamture July -2012	"Soil Chemistry of irrigated and Non-irrigated farmlands of Beed District Maharashtra"	Awarded Ph.D. degree
22. Mr. V.R. Thakur July -2012	"Bio-Monitoring of Godavari river between Kaigaon Toka and Paithan for Wholesomeness of water quality"	Research work is in Progress.
23. Mr. S.S. Asgaokar	"Natural resource management and sustainable rural development of Aurangabad District"	Research work is in Progress.
24. Mr. K.P. Dandge	"Remote sensing and GIS Technology for mapping spatial variations of water quality index in Bhokardan area Jalna District Maharashtra State".	Research work is in Progress.
25. Mr. V.P. Patil	"Treatability studies on distillery spentwash by oxidation processes"	Research work is in Progress.
26. Mr. V.R. Potadar	"Studies on Ecological Footprint and carbon sequestration of Aurangabad City in Maharashtra"	Research work is in Progress.

27. Mr. S. H. Pawar	"Treatment Efficiency of Effluent Treatment Plants of Industries of Solapur District"	Research work is in Progress.
28. Mrs. A. N. Mirza	Biodiversity mapping of gautala reserve forest of district Aurangabad	Research work is in Progress.
29. Miss. R. B. Tiwari	Development of air quality model for Aurangabad urban area and its health impact	Research work is in Progress.
30. Mr. S. A. Kolhe	Hazardous waste management practice and its governance in Maharashtra State	Research work is in progress.
31. Mr. K. M. Shinde	Development and design of low cost vermicomposting technology for municipal sewage and solid waste	Research work is in Progress.
33. Mr. A.R. Telgote	"Development And Design Of The Cost Effective Model For Water Purification From Municipal Area"	Research work is in Progress.
33. Mr. M. Joshi	Development of Environmental Sustainability and eco-tourism potential of forts of Marathawada region, Maharashtra	Research work is in Progress.

18.Area of Interest :

➤ **Environmental Impact Assessment (EIA) :**

Experts in conducting and carrying out EIAs and Preparation of Environmental Audit and Environmental Management Plan (EMP) other Management Plans having expertizing on predictive techniques and tools use in the EIA process.

- **Environmental Quality** : Expert in Measurement / Monitoring, Analysis and interpretation data in relation to environmental quality,
- **Risk Assessment studies.**
- **Environmental Pollution Study**
- **Eco-toxicology**
- **Water Pollution**
- **Environmental Physiology**
- **Biodiversity, Air pollution studies, etc.**
- Carrying out Environmental Impact Assessment Studies for Industrial complexes, Irrigation projects, Thermal Power Plants, Transportation etc. Since last 15 years.
- Working in the Field of measurement /monitoring, analysis and interpretation of data for Air, water and soil to interpret environmental quality of urban and industrial sectors since last 15 years.
- Carrying out bio diversity studies of flora and fauna with reference to its eco-sustainable use of different water bodies like Jaikwadi dam, Mehrum dam, Sukhna dam, Nandur Madhemeshwar , Ambadi dam , Tembhapuri dam Andhari dam etc. and the rivers like Godavari river , Pravara river, Kham river Girija river, Sukhna river, Khelna river, etc of Maharashtra State since last 10 years.
- Worked on Life Cycle Assessment of Cereal crops like Jawar, Bajara, Wheats and Leguminous crop from Marathwada Region along with ecological footprints and carbon sequestration.
- Carrying out training on ISO 14000 and OSHAS 1800 conducted by CSE and APEDA, New Delhi.
- Carried Benchmark study of Jaikwadi Project (1987-1988).
- Working on Ground water pollution studies due to industrial effluent from MIDC area Nagothana area of Raigad district, MIDC area of Ahmednager & MIDC area of Waluj, Chikalthana, Paithan and Shendra of Aurangabad district since last 6 years.
- Working as a subject expert on Maharashtra pollution control board and Municipal Corporation.
- Delivering environmental awareness and environmental educational lectures in school, colleges and different Universities in all over the Maharashtra as a subject expert.
- Carried out preliminary studies and benchmark survey on bio-monitoring and management of Godavari river water for sustainable utilization.
- Carried out preliminary studies on water quality of Kham river and benchmark survey for the treatment and disposal of domestic sewage of Aurangabad city through cleaning of river by using eco-technologies like green bridge and green lake technologies.

19.Particulars of seminars/conferences/symposia/workshop participated/attended :

Names of the Seminars/Conference Symposia, Workshops etc.	Name of the Sponsoring agency	Place and Date
<u>International:</u>		
1. Food and Agricultural Organization (FAO) Rome	FAO, Rome.	Italy 3-7, September, 1993.
2. Ozone application in Medicine	International Ozone Association	Zurich, Switzerland. Sept, 1-3, 1994
3. Third European Conference on Ecotoxicology	Fedrich Institute of Toxicology, Zurich	Zurich, Switzerland. Aug 28- 31, 1994
4. Environment, Medical Ethics and Biodiversity	Nagar College, Nagar	Ahmednagar 13-16, January, 1998
5. International Conference on Environmental Agriculture	Ecological Society (ECOS), Kathmandu	Kathmandu, Nepal Nov. 1-3 1998.
6. International Conference on Probing in Biological systems	Institute of Science, Mumbai.	Mumbai 7-11 February, 2000.
7. International Congress of Chemistry and Environment	ICCE-2001, Indore	Indore 16-18 December, 2001.
8. 12 th World Lake Conference (Taal – 2007).	Conservation and management of Salim Ali lake, Aurangabad	28 th Oct. – 2 Nov. 2007
9. III rd World Aqua Congress	Aqua Foundation, New Delhi, India.	New Delhi 2 nd – 4 th Dec.2009

10. Second International River Festival	Narmada Samagra, Bandrabhan, India.	Bandrabhan 21 st – 23 rd March 2010.
11. International Conference on Biotechnology for Better Tomorrow	Dept. Of Microbiology, Dr. B. A. M. university, Sub – campus Osmanabad. M.S. India.	6-7Feb, 2011
12. Indo-Sri Lanka International Conference on Agro Biotechnology for Sustainable Development	University of Ruhuna, Peradeniya, Colombo, Sri Lanka	Sri Lanka 12-13 March, 2012
13. II nd World Congress for Man & Nature -2012 on Global Change: Impact on Biodiversity, Culture & Technology.	Sevadal Mahila Mahavidyalaya, Nagpur.	Nagpur 3 rd to 5 th November 2012.
14. International Conference on “Biotechnology and Bioengineering” (ICBB 2014)	Microbiologist Society, India, Dr. B. A. M. University & Birla Institute of Technology & Science, Pilani, Dubai Campus	29 th & 30 th October 2014
15. International Conference on Climate Change and Sustainability	Thakur College of Science & Commerce	21 st to 23 rd December 2015
16. Interdisciplinary International Conference on Development, Environment & Social Welfare: Issues & Challenges	Interdisciplinary International Conference on Development, Environment & Social Welfare: Issues & Challenges Bankok, Thailand	May 16-17, 2017
17. International Conference on Technologies for Mitigation of Environmental Pollution and Their Applications in Conservation of Aquatic Ecosystem	Department of Zoology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.	December 13, 2008

<u>National:</u>		
17. Symposium on Environmental Risk Assessment and Management	The Academy of Environmental Biology, Jai Research Foundation	Valvada, Gujrat 29-31 December 1988.
18. XI Annual Conference of AISCAP & the AISCAPEI	Department of Zoology, Nagpur University	Nagpur 29-31, January, 1989
19. Symposium on "Environmental Pollutants and Resources of Land and Water.	Annual Session of Academy of Environmental Biology.	Marathwada University, Aurangabad. 21-23 December, 1990
20. Biometric and Computer Applications Workshop	Botany Department,	Marathwada University, Aurangabad. 10-11, October, 1992.
21. Seminar on Environmental Threat a feature sustainable life on the earth.	P.V.P. College Pravara Nagar.	Pravara Nagar 20-21, March, 1994
22. Symposium on Eco-environment Impact and Organism Response	Government Vidharbha Mahavidyalay	Amravati 15-17, October, 1994.
23. National Symposium on Animal and Environment	Dept. of Zoology Dr. B.A.M. University, Aurangabad	Aurangabad 9-11, December, 1994.
24. Workshop on Water quality Assessment	Indian Association of Aquatic Biologists (IIAB)	PravaraNagar 15-16, April, 1995.

25. 11 th Congress of federation of Indian Physiological Society	Department of Zoology Shree Venketaswara University, Tirupati	Tirupati 15-17, September, 1997.
26. Workshop on Environmental Physiology of Aquatic Invertebrates	Department of Zoology, Dr. B.A.M. University, Aurangabad.	Aurangabad 17-19, October, 1997.
27. National Symposium on Environmental Issues and Strategies for Sustainable Development.	Department of Environmental Science, Dr. B.A.M. University, Aurangabad.	Aurangabad 23-25, January, 1998.
28. 68 th Annual session of National Academy of Sciences, India.	Central Drug Research Institute (CDRI) Lucknow.	Lucknow 23-25, October 1998.
29. National Seminar on Environmental Education its design and curriculum	S. B. Science College, Aurangabad.	Aurangabad 14-15, November 1998
30. National Seminar on Environmental Awareness and Natural Resource Conservation	Department of Environmental Science, Dr. B.A.M. University, Aurangabad.	Aurangabad. 25-27, December, 1998
31. National Seminar on Environmental Awareness and Natural Resources Conservation	Department of Environmental Science, Dr. B. A .M. University, Aurangabad.	Aurangabad. 25-27, December, 1998
32. XX Annual Conference of ISCAP and Symposium on Environment and Human Health	Department of Environmental Science, Dr. B.A.M. University, Aurangabad.	Aurangabad. 28-30, January 1999.

33. Seminar on Higher education in new millennium: prospectus and problems	Dr. B.A.M. University, Teachers Association Aurangabad.	Aurangabad. 27 March 2000.
34. Workshop on Intellectual Property Rights and Patent Awareness	Dr. B.A.M. University, Aurangabad	Aurangabad. 23 rd June 2000.
35. Workshop on Desertification in Cities	Indian Environmental Society, New Delhi	Aurangabad. 21-23, July, 2000.
36. 70 th Annual Conference of National Academy of Science	Allahabad University, Allahbad.	Allahabad. 3-6 November 2000.
37. National Seminar on Zoology for 21 st Century	Department of Zoology, Goa University	Goa 7-9, December 2000.
38. Users Interaction Workshop on Potential Fishing Zone to Forecast Fishing Activities	Marine Research Laboratory of Dr. B.A.M. University.	Ratnagiri, 4 th November 2001.
39. National Conference on Frontiers in Biotechnological Aspects of Plants Sciences.	Dr. B. A. M. University, Aurangabad.	Aurangabad. 30-31, January 2002.
40. National Conference on Living Resources for Bio-industries	Department of Zoology, Dr. B.A.M. University, Aurangabad.	Aurangabad. 22-23, December 2001.
41. National Seminar on Paryavaran Saurakshan and Saunwardhan	Department of Environmental Science, Dr. B.A. M. University, Aurangabad.	Aurangabad. 12 th March, 2003

42. National Conference on Urban Lakes	University Grants Commission, New Delhi	Vivek Vardhini College, Hyderabad. 5-6 April, 2003
43. International Workshop on Urban Lakes Conservation and Management	Hyderabad Urban Development Authority (HUDA)	16 th to 18 th June, 2003 Silver Jubli Hall Public Gardens, Hyderabad.
44. National Symposium on Recent Trends in Biology and Biotechnology and 23 rd Annual Session of the Academy of Environmental Biology	Department of Zoology, Shivaji University, Kolhapur and The Academy of Environmental Biology Lucknow	9 th to 11 th October, 2003. Kolhapur.
45. National Workshop on Marine Biodiversity and Biotechnology	Marine Research Laboratory of Dept. of Zoology, Dr. B.A.M. University, Govt. Salt Dept. Awar, Bhatye, Ratnagiri.	19 th and 20 th January, 2004.
46. International Workshop on Urban Lakes Conservation and Management	Hyderabad Urban Development Authority (HUDA)	16 th to 18 th June, 2003 Silver Jubli Hall Public Gardens, Hyderabad.
47. Emerging pollutants: impact on-health,agriculture and environment	Department of Environmental Science Dr. B.A.M.University, Aurangabad	29 th to 31 st January 2004.

48. National Conference On Wetlands Biodiversity.	Dept. Zoology. St. Aloysius College, Elthuruth, inAsso. With Limno. Asso. Of Kerala and IAAB, Hyderabad. Trissure.	2 rd to 3 rd Feb 2006.
49. Workshop on "Hazardous waste management.	Department of Environmental Science Dr. B.A.M. University, Aurangabad	28 & 29 th March , 2007
50. UGC Sponsored Regional Workshop	Intellectual property rights and patenting	23 rd October 2007.
51. National Seminar on "Current issues on Applied Zoology and Environmental Sciences with special reference to Eco-restoration and Management of Bio-resources: (SCIAZE).	Environmental Clearances ----- - and Procedures"	Dec. 7 – 9 th , 2007
52. National Conference on Advances in Pollution Control Technology	Department of Environmental Science Dr. B.A.M. University, Aurangabad	26 th and 27 th February 2008
53. TQM: Role of Academic Staff College in Higher Education.	UGC Academic Staff College Dr. B.A.M. University, Aurangabad.	30 th March 2008.
54. III rd World Aqua Congress.	Aqua Foundation, New Delhi.	2 nd – 4 th Dec, 2009.
55. Avhan 2009 a State Level Disaster relief training camp.	Dr. B.A.M. University, Aurangabad	9 – 20 June, 2009

56. National Conference on Natural Resource Management For Sustainable Development	School of Environment & Earth Science, North Maharashtra University, Jalgaon.	1 st and 2 nd February, 2010.
57. National Level Seminar on Global Warming and Water Crisis.	U.G.C Sponsored	11 th – 12 th March 2010.
58. Training Programme on understanding EIA from screening to decision making	Centre for Science and Environment, New Delhi	9 – 13 August, 2010.
59. One day seminar on Environmental Compliance & Beyond	Environmental Management Centre, Aurangabad.	3 rd Sept. 2010.
60. One day training program on Environmental Impact Assessment	Environmental Management Centre	4 rd Sept. 2010.
61. Recent Research Techniques in Zoology	Deogiri College Aurangabad	5 th September, 2010.
62. Two days training program on Role of various functional area experts & EIAco-ordinator in Environmental Impact Assessment study.	Pollution control consultants Sd engineering services Pvt.ltd. Aurangabad.	22 nd & 23 rd January 2011.
63. Environmental Pollution and Management	Dept. of Civil Engg. Government College of Engineering, Aurangabad.	28 th & 29 th January, 2011.

64. Two days workshop on Environmental Impact Assessment & Roles of Various subject Experts	Pollution control consultants Sd engineering services Pvt.ltd. Aurangabad.	9 th & 10 th July 2011
65. National Conference on Environmental Surveillance for Natural Resource Management	School of Environment and Earth Science, North Maharashtra University, Jalgaon.	9 th & 10 th January 2012.
66. National Seminar on Parasite fate into living system	Mahatma Gandhi Mahavidyalaya, Ahmedpur, Latur.	24 th & 25 th August 2012.
67. National Conference on Current trends in chemical research	Vasantrao Naik Mahavidyalaya, Aurangabad	30 th & 31 st August 2012.
68. National Conference on Recent Trends and Future prospects in life Science.	Mahatma Gandhi Mahavidyalaya, Ahmedpur, Latur.	27 th & 28 th December, 2012.
69. National Conference on Recent Trend and Future prospects in Biology Science	Maharashtra Udayagiri Mahavidyalaya, Udgir.	18 th & 19 th January 2013.
70. National Conference on Global Environmental problems, its impact & solutions.	Netaji Subhashchandra Bose Arts, Comm. & Cscience college, Nanded.	22 nd and 23 rd February 2013.

71. National Conference on Recent Trends in the Conservation of marine Biodiversity,	The department of Zoology, Gokhale Education Society Arts, Com. & Sci. College Shreewardhan, Raigad.	17 th & 18 th September 2014
72. University-Industry Interaction Summit 2015 – talked on “Energy & Environment”	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	29 th & 30 th October 2015.
73. Interdisciplinary International Conference on Development, Environment & Social Welfare : Issues & Challenges	SOCIAL RESEARCH FOUNDATION, AURANGABAD IN COLLABORATION WITH DEPT. OF SOCIOLOGY, DR. B. A. M. UNIVERSITY, AURANGABAD	MAY 16-17, 2017 BANKOK, THAILAND

20. Visit Abroad:

- Visited to the countries for research paper presentation in Germany, Italy, Switzerland, Nepal, Sri Lanka and Dubai.

21. Particulars of seminars/conferences/workshop organized as Convenor/Chairman :

1. National symposium on Environmental issues and strategies for sustainable development 23-25 January, 1998. (Academic Co-coordinator)
2. National Seminar on Environmental awareness and natural resources conservation 25-27 December, 1998. (Academic Co-coordinator)
3. 20th Annual Conference of Indian Society for comparative animal physiology and symposium on environment and human health. 28-30 January, 1998 (Organizing Secretary).
4. Seminar on Paryavaran Saunrakshan and prashikshan. 12th March, 2003 (Organizing Secretary)

5. National Conference on Emerging pollutants: Impact on Health, Agriculture and Environment. 29 – 31 January 2004 (Organizing Secretary).
6. Workshop on “Hazardous waste management – A priority issue” 28 & 29th March, 2007 (Convener).
7. National Conference on “Advances in Pollution Control Technology” 26th and 27th February 2008. (Convener)
8. Seminar on “Carrier opportunities in Environmental Science”. 31st July 2011. (Convener).
9. National Conference on “Industrial Waste water Reuse, Recycle and Zero Discharge”. 5th & 6th March 2012. (Convener).
10. Workshop on “Air Pollution Monitoring & Control Measures” in collaboration with Clean Air Asia, New Delhi as a Convenor.
11. Workshop on “Environmental pollution : Emerging Perspectives” as Chairman organized by Department of Environmental Science on 11 March 2017

22. Publications

❖ No. of publications

	:		
1. National Journal	-		43
2. International journals	-		57
3. National seminars	-		08
4. International seminars	-		04
		Total –	113
5. Journals with Impact Factor	–		51

(From 0.41 to 7.49)

Books Published as a Author : **07**

Editorship of Journals:

1. Member of Editorial Board International Journal of Environment and Earth Sciences.
2. Member of Editorial Board Journal of Science information.
3. Member of Editorial Board for journal of Chemo and Biosphere.
4. Member of Editorial Board of SPM-JAR.

List of Published Books

Books published as an author:

1. **Dr. Satish Patil** (2011): Biodiversity & Biopotential of Bivalve Molluscs. Abhay Prakashan Kanpur, (ISBN: 978-93-80719-15-3)
2. **Dr. Satish Patil** (2012): Paryawaran Abhyas. Godawa Prakashan, Pune.
3. **Dr. Satish Patil** (2012): Paryawaran Antarang. Godawa Prakashan, Pune.
4. "Diploma in Watershed Management" in Marathi for IGNOU New Delhi.
5. Diversity of Bird Fuana (2014). Scholars Press germany (ISBN-978-3-639-66764-6)
6. Diversity of Phytoplanktons and Zooplanktons (2014). Scholars Press Germany: (ISBN-978-3-639-66959-6).
7. **Satish Patil**, Geetanjali Kaushik, Arvind Chel & Shivani Chaturvedi. Springer International Publishing AG2018. CM Hussain (ED.), Handbook of Environmental Materials Management, https://doi.org/10.1007/978-3-319-58538_78-1

List of Research Publications:

1. **S.S.Patil**, R.P. Patil and U.H. Mane (1994): Impact of cadmium on the Edible bivalve mollusc, *Meretrix meretrix*...J. Ecotoxicol. Environ. Moint. Palani, Paramount Publication, Palani; 4(3) 189-192. (ISSN – 0971 – 0965-0004 – 94 – 189)
2. **S.S.Patil** and R.P. Patil (1995): Impact of mercury on the rate of Respiration of the bivalve mollusc, *Lamellidens marginalis (Lamarck)* J. Aqua. Biol. Vol. 10(1) 37-39. (ISSN – 0971-6920)
3. **S.S.Patil** and U.H. Mane (1997): Tissue biochemical levels in different body parts of the bivalve mollusc, *Lamellidens marginalis (L)* exposed to mercury in winter season. J. Aqua.Biol. Vol. 12(1&2), 57-62. (ISSN – 0971-6920)
4. **S.S.Patil** (1998): Impact assessment of transportation of goods and other wastes on the related environment around Bhabhaleshwar-Shirdi highway road, J. Eco. Env. And Cons. Vol. 4(4); pp. 195-199.
5. **S.S.Patil** and P.V. Jabde (1998): Effect of mercury poisoning on somehaematological parameters from a fresh water fish, *Channa gachua* J. poll. Res.Vol (3), pp, 223-228.

6. **S.S.Patil** (1998): Occurance and tolerance of algae in distillery waste water J.Industrial Poll. Contl. Vol. 14(2) pp 89-93.
7. **S.S.Patil** and U.H. Mane (1998): Tissue biochemical levels of *Lamellidens marginalis* exposed to mercury in summer season J. Aqua.Biol. Vol.13 (1&2), 73-77. (ISSN – 0971-6920)

8. **S.S.Patil** and U. H. Mane (1998): Seasonal Variation in Oxygen uptake of bivalve mollusc, *Lamellidens marginalis* (Lamarck) from lentic environment due to mercury stress, J. Aqua. Biol. Vol.13 (1&2), 81-85.
9. **S.S.Patil** (1999): Environmental education at post graduate level, Proc. Nat. Sem. Env. Edu. Necessity and Design Curricula, pp 201-207 (1999). S.B. Science College Aurangabad
10. **S.S.Patil** and U. H. Mane (2000): Changes in the hepatopancreas of the Bivalve *Lamellidens marginalis* due to acute mercury stress Proc. Nat. Acad. Sci. India, 70(B), 2nd, pp.1-6.
11. **S.S.Patil** (2000): Ground water quality from Pravara area, Dist. Ahemednagar, Maharashtra, J. Dr. B. A. M. University, Aurangabad, Vol. xxx No. 7 pp 65-68. 2000.
12. **S.S.Patil** and U.H. Mane (2001): Mercury impact on the bivalve *Lamellidens marginalis* (Lamarck) in summer season: Biochemical and Histological approach. In Environment and Agriculture: Biodiversity, agriculture and pollution in South Asia (Eds. P.K. Jha, S.R.Baral and S.B. Karmacharya, ecological society, Kathmandu Nepal. pp. 581-587.
13. **S.S.Patil**, R. G. Auti and J. M. Patwari (2001): Acute toxicity of mercury on the fresh water bivalve molluscs *Lamellidens corrianus* from Nandrabad Pond. M. S. Jr. of Science, Dr. Babasaheb Ambedkar Marathwada, Universtiy, Aurangabad. Vol XXI No. 8 pp. 1-6.
14. **S.S. Patil** (2001): Effect of Mercuric Chloride on the Gonad of Freshwater Bivalve mollusc, *Lamellidens Marginlis* in different seasons. Proceedings of International Congress of Chemistry and Environment, pp-181-186.
15. **S.S. Patil** (2002): Heavy metal levels in freshwater bivalve molluscs *Lamellidens corrianus* from Nandrabad Swamp near Aurangabad. *Indian Jr. of Env. and Ecoplanning*. Vol 6 No. 1.
16. **S.S. Patil**, J.M.Patwari and R.G.Auti (2003): Ground water quality of Pravara. *J.Aqua. Biol.* Vol 18 (2) : 85-86. (ISSN – 0971-6920)
17. **S.S. Patil** and U.H.Mane (2004): Acute toxicity of cadmium on the estuarine bivalve mollusc, *Katelsia opima* (Gmelin) from Ratnagiri. *Ind. J. Invert. Zool. & Aqua. Biol.* Vol 5 (1): 61-64. (ISSN – 0971-6920)
18. **S.S.Patil** and U.H. Mane (2004): Tissue biochemical levels in different body parts of

freshwater bivalve *Lamellidens marginalis* exposed to mercury in monsoon season. Indian Journal of Comparative Animal Physiology, Vol. - 22 , p. 56 - 61. (ISSN – 0255 – 7150)

19. **S.S. Patil** and R.G. Auti (2005): Seasonal variations of zooplankton from Salim Ali Lake at Aurangabad. *BIOINFOLET* 2(2): p 81-85. (ISSN– 0973 - 1431)
20. **S.S. Patil** and J.M. Patwari (2005): Mercury impact on the oxygen uptake of the bivalve molluscs, *Lamellidens corrianus* in different seasons. *J. of Sciences* Vol XXXIII (C), p 38-41.
21. **S.S. Patil** (2006): Role of Legislation in the conservation of Biodiversity: The Nooks and flaws in the Law as Stumping block. *J. of Basic and Applied Sciences* Vol. (1) : p 17-27. ()
22. **S.S. Patil** and Auti R.G. (2006): Conservation and Management of lakes: A case study of Salim Ali Lake. Nat. Conf. On Wetlands Biodiversity. Org. by Dept. Zool. St. Aloysius College, Elthuruth, in Asso. With Limno. Asso. Of Kerala and IAAB, Hyderabad. Trissure. p. 193-198. (ISSN – 0971-6920)
23. **S.S. Patil**, Dilip Yardi., and Auti R.G. (2006): Diversity of avian fauna from Salim Ali lake. Nat. Conf. On Wetlands Biodiversity. Org. by Dept. Zool. St. Aloysius College, Elthuruth, in Asso. With Limno. Asso. Of Kerala and IAAB, Hyderabad. Trissure. pp. 78-83. (ISSN – 0971-6920)
24. **S.S. Patil** and K.L. Karkare (2007): Disaster Management and Mitigation Environmental Changes and Natural Disasters, *New Inida Pub. Agency*, pp. 179 – 184, New Delhi.
25. **S.S. Patil**, R.G. Auti and S.S. Mokahe (2008): Conversion and Management of Salim Ali Lake, Aurangabad. Sengupta, M and Dalwani, R. (Editors), Processing of Taal 2007: The 12th World lake conference: 1614-1622.
26. **S.S. Patil**, R.G. Auti, Dilip Yardi and N.N. Bandela (2008): Conservation of Birds of Jaikwadi dam- A Proposed Ramsar site, Aurangabad. Sengupta, M and Dalwani, R. (Editors), Processing of Taal 2007: The 12th World lake conference: 547-553.
27. **S.S. Patil**, Pondhe G.M., Hase P.C. and Thitame S.N. (2008): Characteristic and quality of ground water in Ghulewadi and Maldad Villages near Sugar factory, Sangamner, Dist, Ahmednagar, Maharashtra: *Jr. of Aqua. Biol.*, Vol., 23(1): 51-54. (ISSN – 0971-4235)

28. **S.S. Patil**, C.B. Pawar, A.M. Dhere, P.B.Pardeshi and J.D. Barkade. (2009): Biodegradation of Surfactants in Mula-Mutha Rivers Water in Pune City. *Enrich Environment. Multidisciplinary International Research Journal*. Vol. 02. Number. 02. P- 22-28. (ISSN – 0974 – 6064)
29. **S.S. Patil**, C.B. Pawar. (2009): Biodiversity of terrestrial scorpions in the Osomanabad district (MS) India. Vol. 15 (2) pp – 297-300 (ISSN – 0971-6920)
30. **S.S. Patil** and R.D. Joshi. (2010): Impact of Sugar Mill Waste Water on Ground Water Quality. *Ecology and Fisheries*, Vol.03(1). P-45-54.
31. **S.S. Patil** Jadhvar V.R., and Ghorade, I.B. (2010): Assessment of Groundwater Quality in and around Nagothane region Dist. Raigad, Maharashtra. *Jr. of Aqua. Biol.*, B07 Vol.25 (2) : 91-99. (ISSN – 0971- 4235)
32. **S.S. Patil** C.A. Jawale, C.B. Pawar and V.S. Kamble (2010): A study of some faunal terrestrial species scaring and worshipping in the village of Kathisawargaon in Osmanabad Dist. – A case study. *Jr. of Flora and Fauna* Vol. 16(2): 318 – 320. (ISSN – 0971-6920)
33. **S.S. Patil**, D.B. Goswami, M.D. Wagh and H.P. Shinde (2010): Effect of Pesticides on the Glycogen content of the Gastropoda, *Laevicaulisalte*. *National Journal of life Science*, Vol. 7(3) 2010: pp 69-76. (ISSN – 0972-995X)
34. **S.S. Patil**, M.D. Wagh and D.B. Goswami (2010): Ground water quality assessment near near agro based Industrial area of Vithewad Village in Deola Block, Dist, and Nashik (M.S). *National Journal of life Science*, Vol. 7(3) 2010: pp 59-64. (ISSN – 0972-995X)
35. **S.S. Patil**, and C.B. Pawar (2011): Soil salinity conditions in the KR – 48 watershed in Krishna basin and subsurface drainage technology (SSD) reclamation of saline soil – technology adoption for improving soil condition at Kasbe – digraj village in sangli dist. of Maharashtra. *Jr. of Enrich Environment*. (ISSN – 0974-6064)
36. **S.S. Patil**, and C.B. Pawar (2011):Roof top rain water harvesting in the Renavi village of Khanapur block of Sangli Dist. *Jr. of Ashwata* vol. BOL – 5 (2): 32. (ISSN – 0976-3740)
37. **S.S. Patil** and C.B. Pawar (2011): Watershed and Small Entrepreneurship Development – A case of Kadwanchi Village of Jalana District of Maharashtra, India *Jr. of International Journal of Entrepreneurship & Management*. Vol. 1 (1) 2011. (ISSN –

2277-6850)

38. **S.S. Patil**, S.L. Jadhav and B.L. Chavan (2011): Designing fabrication and performance analysis of solar still for purification of water. Jr. of Innovative systems Design and Engineering. Vol. 2. No. 3. (ISSN – 2222-1727) (Impact Factor-6.94)
39. **S.S. Patil**, (2011): Zooplankton Diversity from Salim Ali Lake at Aurangabad. J. Flora and Fauna. Vol. 17 (2) pp 355 – 362. (ISSN – 0971-6920)
40. **S.S. Patil**, I.B. Ghorade, V.R. Potadar and V.R. Jadhavar (2011): Utilization of Agricultural waste in organic farming for sustainable agriculture. Indian Stream Research Journal Vol. I (10), 2011: pp 1-4. (ISSN – 2230-7850) (Impact Factor-0.4161)
41. **S.S. Patil**, and I.B. Gorade (2011): Management of water and Eco Sustainability Assessment of Godavari River from Maharashtra State for Sustainable Utilization. Indian Journal of Applied Research. Vol.1 (2) 2011. Pp 19-22. (ISSN – 2249-555X) (Impact Factor-2.1652)
42. **S.S. Patil**, D.B. Goswami, S.J. Pawar (2011): Effect of Pesticide on the Protein Content of the Gastropoda, *Levicaulis Alti*. International Journal of Environment and Earth Science. Vol. 7. (1) 2011. Pp 1-13 (ISSN – 0976-741X).
43. **S.S. Patil**, C.B. Pawar and A.B. Shinde (2011): Health? The False Dilemma of Cash Crop Growing Farmers and Laborers in Nandani Village of Western India. International Journal of Development Studies. Vol. 3 (2) 2011. Pp 69-73. (ISSN 0975-5799)
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45. **S.S. Patil** & Dilip Yardi (2011): Conservation of Birds and their ecological status in Jaikwadi Bird Sanctuary. Proceeding National Conference on “Environment Pollution and Management 28th & 29th January 2011. Pp 52 – 56. (ISBN – 978-81-90495-8-8)
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Participation in corporate life:

Contribution to the University:

- 1) Worked as a Custodian and CAS Officer in the CAS Centre of Dr. B.A.M. University, Aurangabad.

- 2) Involved for the inauguration of Marine research laboratory of Dr. B.A.M. University, Aurangabad at Ratnagiri.
- 3) Work as coordinator for 03 refresher courses in Environmental Science.
- 4) Worked as a member of the annual report committee for the year 2001-2002 of Dr. B.A.M. University, Aurangabad.

- 5) Visited U.G.C. office Delhi for the official work in connection with submission and approval of the building proposals from the commission under 9th plan scheme in 2002.
- 6) Working as a member of Department Committee.
- 7) Working as a member of Department Purchase Committee.
- 8) Working as Examiner for Theory and Practical at M. Sc. level.
- 9) Involved actively in the NAAC Program and U.G.C. visit to Department of Environmental Science, Dr. B.A.M. University, and Aurangabad.
- 10) Accompanying for the students excursion program since 1996.
- 11) Worked as a member of Local Enquiry Committee on several colleges
- 12) Worked as selection committee member as a subject expert in KSK College Beed, S. B. Science college and Deogiri college of Dr. B. A. M. university & SRT university Nanded.
- 13) Worked as affiliation committee member for several colleges.
- 14) Worked as a Member of Golden Jubilee celebration committee of Dr. B. A. M. University, Aurangabad.
- 15) Worked as a Member of Development Grant Utilization Committee in 2007.
- 16) Worked as presiding Officer in Assembly and Parliamentary election of Aurangabad district.
- 17) Worked as a steering committee Member in Avhan camp organized by University from 9th to 20th June, 2009.

Students Welfare and Discipline:

- 1) Maintaining discipline in classes, laboratories and department by undertaking from students remaining absent in lectures/practical or misbehaving ones.
- 2) Providing books, reading material, research material from personal library to students.
- 3) Guiding to students for employment opportunities, private consultancies and business opportunities.

Research/Development plan for next five years (in brief):-

As an individual:

1. Research on eco-sustainability assessment of various water resources from Marathwada region.
2. Extensive studies on Environmental Impact Assessment (EIA) for different projects from Maharashtra.
3. Research on Ecological Foot printing and Carbon credit and LCA.
4. Extensive research on Zero discharge technology and clean development mechanism in industries.
5. Research on comprehensive environmental pollution index (CEPI) of various industrial clusters of Maharashtra.

Any other information:

a) Orientation course completed:

1. 32nd Orientation course conducted by UGC- Academic Staff College (West Zone) Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for College and University Teachers from 02 to 28th February 1998.

b) Refresher course completed:

1. 8th Refresher course in Environmental Science conducted by Academic Staff College, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad from 03 to 30th September, 1999.
2. 10th Refresher course in Environmental Science conducted by UGC- Academic Staff College, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad from 03 to 30th October, 2001.
3. 11th Refresher course in Environmental Science conducted by UGC- Academic Staff College, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad from 05 to 26th June, 2002 Under Grade 'A'.

Contact with scientific organizations.

1. Department of Environmental Studies, Masaryk University, Kkotlarska brnzo Czech Republic.
2. Department of Zoology, University of Colombia Codex Portugal.
3. National Institute of Public health and Environmental protection, Toxicology

Advisory Center, Bithenen, Netherlands.

4. Society for Experimental Biology, Burlington House, Picadilly, London.
5. Ciba convention services, Ch-4002 J Basel / Switzerland.
6. Department of Animal Physiology, University of Liege, Belgium.
7. Society of Environmental Toxicology and Chemistry, Copenhagen Denmark.
8. FAO of the U.N. Rome Department of Fisheries.
9. Academy of Experimental Biology of India, Muzaffarnagar.
10. National Institute of Oceanography Goa, India.
11. Department of Zoology, Institute of Science Mumbai.
12. School of Environmental Sciences, University of Poona, Pune.
13. Department of Environmental Sciences, Andhra University, Waltair, India.
14. Department of Zoology Dr. B. A. M. University, Aurangabad.
15. Ministry of Environment and Forests, Government of India, New Delhi.
16. National Chemical Laboratory, Pune
17. CFTIR. Mysore (Karnataka).
18. Kuvaumpu University, Shimoga, (Karnataka).
19. National Environmental Engineering Research Institute, Nagpur.
20. University of Jammu, Jammu & Kashmir.

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