



CURRICULUM VITAE

PROF. SANJAYKUMAR R. THORAT



University Educator and Researcher
(Specialization: Environmental Sciences)



'A' Grade
NAAC Re-Accredited
(3rd Cycle)

SCHOOL OF ENVIRONMENTAL AND EARTH SCIENCES
KAVAYITRI BAHINABAI CHAUDHARI NORTH MAHARASHTRA
UNIVERSITY, JALGAON (M.S.) INDIA

PROF. DR. SANJAYKUMAR RAMCHANDRA THORAT
UNIVERSITY EDUCATOR AND RESEARCHER
(Specialization: Environmental Sciences)
 Over 22 years of Research and Teaching Experience



Date of Birth & Place	03/08/1972 at Aurangabad (M.S.)
Nationality	Indian
Language Known	Three (English, Marathi and Hindi)
Permanent address	Plot No. 7B Sher-ganga Housing Society, Phadsingpura Aurangabad caves road, Aurangabad – 431 001 (M.S.), India.
Residential address	A-11, Staff Quarter P. O. Box 80, Umavi Nagar, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon. (M.S.), India.
Address for communication	Prof. Sanjaykumar R. Thorat, Director School of Environmental and Earth Science, P. O. Box 80, Umavi Nagar, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon. 425 001, (M.S.), India.
E-mail address	drst118@gmail.com ; srthorat@nmu.ac.in
Phone number	® 0257 - 2258118 (O) 0257 - 2257428 Cell: +919421636426
Present Position	Professor and Director School of Environmental and Earth Science, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon. 425 001.
EDUCATIONAL QUALIFICATIONS	
Basic educational qualification:	M.Sc., Ph. D. in Environmental Science
Training course attended	: 46 th Orientation course held on May 3 rd to 30 th Academic Staff College, Dr. B. A. M. University, and Aurangabad.
Innovative Contribution	:
a) Design of curriculum	: i) Worked as Committee member for designing new syllabus of UG and PG Course in Environmental Sciences. ii) Working as BOS member in the Environmental Sciences.
b) Preparation of resource materials etc.	: Undertaken the work for the preparation of laboratory manual
c) Recipients of award or certificate	: Selected and appointed as Honorary member of “The Research Board of Advisors” of the American Biographical Institute, USA in the year 2008. : Selected as a member of IBC (International Biographical Centre) Cambridge, England in Top 100 Scientists -2010, England.

	<p>: Highest Research Paper Publication in the Department of Environment Science Arunai International Research Foundation (AIRF) Tiruvannamalai, Tamilnadu, India. faculty awards-2017.</p> <p>: Awarded with prestigious Dr. APJ Abdul Kalam Lifetime Achievement National Award for Remarkable Achievements in the field of teaching, research and publication held at ADA Ranga mandira, Bengaluru during 26th January 2019.</p> <p>: Awarded with distinguished Faculty Award by Centre for Educational and Social Development, India. “Academics and Researchers National Conclave and Awards 2019 held in Hotel Kohinoor Continental Andheri, Mumbai on Sunday 23rd June 2019.</p> <p>: Awarded with Visionary Leader Award 2020 in 2nd National Educations and Researchers Convention. Mr. Arman Shaikh C.E.S.D. and O. I. G. Events and Productions, Mumbai on 14th Feb.2020.</p> <p>: Received Outstanding Scientist Award in “International Scientist Awards on Engineering, Science and Medicine by VDGGOOD Professional Association, Ooty, India held on 16th and 17th April, 2021</p>
d) Countries visited	: Israel, Italy, Malaysia, Indonesia, Nepal, Dubai, and Bhutan

Professional profile

- ❖ Skilled educator and excellent communicator with strong, decisive and established teaching style.
- ❖ Strong leadership, communication, student and institutional advocacy skills.
- ❖ High energy complemented by demonstrating ability to reach learners at all levels and motivate them with thrust for learning to the maximum extent possible.
- ❖ Qualified by demonstrating competencies in teaching, writing, research, community service and social relations.
- ❖ Possess adequate experience in educational administration and allied logistic to facilitate running of university courses and programs.

Research profile

- ❖ Design of ETP, Ozonation, advance oxidation process electro coagulation, electro floatation and electro oxidation for water and wastewater treatment.
- ❖ Generation of energy from wastewater.
- ❖ Conversant with environmental toxicology, industrial pollution control, biodiversity and its conservation, ecology and environment with environmental policies and legislation.
- ❖ Analytical techniques for complete examination of water and wastewater.

Research interest

- ❖ Environmental toxicology, Biodiversity and its Conservation, Ecology and Environment and Environmental Policies and Legislation.
- ❖ Microbial fuel cells and bio-sorption.
- ❖ Wastewater treatment technology in the form of advanced oxidation process, photo catalysis and electrochemical process.
- ❖ Environmental Biotechnology, Heavy Metal Pollution.
- ❖ Environmental Pollution Control Technology and Management
- ❖ Hydrobiology and Limnology

Equipment Proficiency

- ❖ Atomic Absorption Spectrophotometer (Shimadzu)
- ❖ Total Organic Carbon Analyzer.
- ❖ UV-Visible spectrophotometer.
- ❖ B.E.T. Surface Area Analyzer (Micromeritics, ASAP 2020)
- ❖ ICP MS (Perkin Elmer)
- ❖ Bioreactor (Zenith)

Educational Profile

Year	Degree	University	Subject	Class
1994	B. Sc.	Dr. B. A. Marathwada University, Aurangabad	Chemistry, Botany, Environmental Sciences	II
1996	M.Sc.	Dr. B. A. Marathwada University, Aurangabad	Environmental Sciences	I
1999	Ph.D.*	Dr. B. A. Marathwada University, Aurangabad	Environmental Sciences	-

*Title of Ph.D. Thesis: Effect of tannery effluent on freshwater fish, *Channa gachua*.

Professional Experience

Period	Designation	Name of the Institution
June, 1996 to Oct, 1999	Contributory Lecturer	Dept. of Environmental Sciences, Dr. B. A. M. University, Aurangabad.
Nov.12 th , 1999 to April 6 th 2006	Lecturer	School of Environmental and Earth Sciences, North Maharashtra University, Jalgaon
April 7 th , 2006 to April 6 th 2012	Associate Professor and Head	Dept. of Environmental Science and Technology (M. Tech.) School of Environmental and Earth Sciences, North Maharashtra University, Jalgaon
April 7 th 2012 to July 27 th 2019	Professor and Head	Dept. of Environmental Science and Technology (M. Tech.) School of Environmental and Earth Sciences, North Maharashtra University, Jalgaon
July 28 th , 2019 till date	Professor and Director	School of Environmental and Earth Sciences, North Maharashtra University, Jalgaon

Administrative Experience:

Sr. No.	Description	Details
1.	Date of Appointment as Professor	07/04/2012
2.	Date of Appointment as Professor and Head	25/05/2012 for M.Tech. (Environmental Engineering and Technology) Total Experience: 07 years 04 months till date
3.	Date of Appointment as Director of the School	Director Professor 30/07/2019 onwards till date

M.Sc. / M. Tech (Environment) Projects guided

Sr. No	Year	Name of the Student	Project Title
1.	April 2000	Mr. Mahendra A. Bhamare	Effect of Fly Ash on physicochemical characteristics of soil
2.	April 2001	Miss. Yogita M. Patil Miss. Varshrani B. Jadhav	Study of soil micro flora from Banana belt
3.	April 2002	Miss. Sukanya C. Patil Mr. Ratnadeep P. Patel	Isolation and Identification of Lipolytic organism
4.	April 2003	Miss. Sonali S. Kulkarni Miss. Bharati F. Valvi	Aero fungi bacteria – An important atmospheric bio-pollutant at Jalgaon
5.	April 2004	Mr. Kapil N. Ingale Mr. Mahendra D. Patel	Bioremediation of heavy metals on Riverine ecosystem by aquatic weeds
6.	April 2004	Miss. Deepali P. Dere Miss. Manish N. Suryavanshi Miss. Shital S. Deshmukh	Use of Different forms of herbs for reduction of hardness in potable water
7.	April 2005	Miss. Darshana A. Hude Miss. Sonal S. Jain	Study of micro flora and micro fauna of river Girna
8.	April 2005	Miss. Pratibha B. Patil Miss. Shalaka Bhole A.	Study of Bio-chemical changes in Plants species of river Girna
9.	April 2005	Mr. Rahuli D. Sawant Mr. Kunal R. Girase	Adsorption of hexavalent chromium by bamboo and Coconut shell carbon
10.	April 2006	Miss. Kirti V. Chaudhari Miss. Mridula B. Ram	Impact of Physico-chemical parameters on micro-fauna of river Girna
11.	April 2006	Miss. Snehal P. Salunke Miss. Sharavari V. Joshi	Isolation and characterization of chromium resistance bacteria from tannery effluent
12.	April 2006	Mr. Varshavekumar S. Patil Mr. Vijay A. Sonawane	Bioremediation of hexavalent chromium from tannery wastewater
13.	March 2007	Mr. Anand C. Sonawane Mr. Yogesh D. Bafna	Assessment of phytoplankton and zooplankton in relation to species diversity of river Tapi
14.	March 2007	Miss. Vijaya S. Shelke Miss. Savita P. Deshmukh	Impact of species diversity in river Girna
15.	April 2008	Miss. Gayatri M. Bharule Miss. Ujwala V. Saidane	Isolation, identification and characterization of bacteria to degrade dye from textile industrial effluent
16.	April 2008	Miss. Pournima A. Pawar Miss. Anuradha V. Cahvan	Comparison of the pre-dominant soil micro-flora in 3 different vegetative communities in North Maharashtra University campus
17.	April 2009	Mr. Haniskhan A. Pathan Mr. Mosim K. Khatik	Removal of colour from textile effluent using bacillus species.
18.	April 2009	Miss. Shubhangi R. Punde Miss. Shubhangi I. Ahire	Study on heavy metals present in North Maharashtra University campus, Jalgaon
19.	April 2010	Mr. Deepak S. Amodkar Mr. Shahsikant B. More	Toxicity evaluation of CuSO ₄ and ZnSO ₄ for freshwater bivalve <i>Lamellidens Marginalis</i> from river Tapi.
20.	April 2010	Miss. Swati D. Desale Miss. Dhanashri S. Sarode	Assessment of medicinal plant in North Maharashtra University campus, Jalgaon

21.	June 2010	Mr. Purushottam I. Thombare (M.Tech.)	Pre-requisition of Godavari River water at Nasik thermal power station.
22.	April 2012	Miss. Badgujar Trupti Rajendra Miss. Patkar Yogita Suresh	Impact of Atmospheric Bio-pollutant in Bhusawal.
23.	May 2012	Ms. Nilam Sanjay Maske (M.Tech.)	Effect of special fish feed prepared using potato peels on freshwater fish <i>labeo-rohita</i> *
24.	May 2012	Miss. Shaikh Shabnam Yunus	Bio-absorption of Heavy Metal with the Help of Bacterial Species.
25.	April 2013	Philip Naval Bhavare Rahul Lotan Bhadane	Carbon sequestered study for tree species present in NMU, campus Jalgaon
26.	May 2013	Santosh V. Agarkar (M.Tech.)	Extraction of Eco-Friendly Textile Dye from Herbal Pharmaceutical Industrial Waste.
27.	May 2013	Ketan S. Gunda (M.Tech.)	Comparative study of the PMT and Proposed metro as expedient mode of transportation facility for Pune city
28.	May 2013	Santosh Vinayakrao Agarkar (M.Tech.)	Extraction of eco-friendly textile dye from herbal pharmaceutical industrial waste
29.	May 2013	Raju Vasave (M.Tech.)	Impact of water harvesting in Thane area
30.	April 2014	Mr. Himanshu D. Baxi (M.Tech.)	Ecological Assessment of an Urban Lake- A Case Study of Gotri Lake, Vadodara, Gujrat, India.
31.	April 2014	Ms. Neelam Pandita	Study of Avifauna of North Maharashtra University Campus, Jalgaon.
32.	May 2014	Mr. Nilesh S. Mali	Socio Economic Survey Erandol Taluka, Jalgaon District of North Maharashtra Region.
33.	April 2015	Miss. Jyotsna J. Kuwar Miss. Snehal V. Chavan	Impact of Agnihotra Ash on Plant Growth.
34.	April 2016	Mr. Vasudeo B. Jadhav Mr. Rakesh V. Kachave	Effects of Heavy Metals on Fenugreek and Spinach on Plant Growth.
35.	June 2016	Mr. Somnath A. Raut (M.Tech.)	Studies on Effectiveness of Different Waste Polymer Materials in Concrete and Its Use in Repair of Pavements- A Waste Management.
36.	April 2017	Mr. Rakesh V. Markandwar Mr. Vijay H. Junghare	Phytoremediation of heavy metals using Eichornia crassipes from the synthetic solution
37.	April 2017	Mr. Ketan L. More Mr. Prashant N. Mali	Efficacy of sewage water on soil properties for crop yield
38.	April 2018	Mr. Javed Taher Tadvi Mr. Suraj Kisan Mavchi	Effects of Pesticides on the nodules presents in leguminous plants
39.	April 2018	Mr. Shrishkumar R Patil Mr. Nilesh D. Suryawanshi	Impact of landfill leachates on groundwater quality: A case study in Jalgaon
40.	May, 2019	Mr. Jayesh B. Waykole (M.Tech.)	Isotopic investigation of precipitation in Pune, Maharashtra from intra-seasonal to inter-annual time scale
41.	May, 2019	Mr. Nihar Dutta (M.Tech.)	Spatial and Temporal Variation of Ambient Air Quality of an Industrial Area in Siliguri town, West Bengal.

42.	April 2019	Miss. Shivade Aarti Suresh Miss. Puja Dipak Jadhav	Plant as a bioindicator of heavy metal accumulation in regional vegetable species.
43.	April 2019	Miss. Pooja Y Sonawane Miss. Bhagyashri Marathe	Bioaccumulation of heavy metals and inorganic pollutants from domestic wastewater by using aquatic macrophytes
44.	April 2019	Miss. Kaveri Ajabsing Patil Miss. Mayuri S. Sonawane	Status of solid waste management in urban sector of Jalgaon city in North Maharashtra Region
45.	May, 2019	Mr. Vinayak Haregaonkar (M.Tech.)	Feasibility study of sludge dewatering devices in Ajanta Pharma Limited
46.	June 2021	Mr. Mahajan Sopan Tukaram Patil Manoj Bhaskar	Status of Marine Water Ecosystem; A Review.
47.	June 2021	Patil Dhanashri Yuvraj Patil Nileshwari Rajendra Patil Jayashri Khumansing	Study on Reclamation and Restoration of soil in Khandesh Region.
48.	June 2021	Kadam Rashmi Rajdatta (M.Tech.)	Population Density and Soil Carbon Sequestration Potential of Selected Mangrove Forest at Mumbai Coast: One Approach for managing Carbon dioxide Emission from Urbanization.

Details of Ph.D. Awarded / On going

Sr. No.	Name of the Student	Ph.D.	Topic of Research	Date of Registration
1.	Miss. S. R. Gaikwad	Ph.D.	Studies on the species diversity of riverine system of north Maharashtra region	20/05/2004 Awarded in July, 2007 Rajiv Gandhi Fellowship awarded in 2004-07
2.	Mr. Pankaj P. Wani	Ph.D.	Development of technologies for the treatment of industrial wastewater containing toxic metals: an integrated approach	21/04/2006 Awarded in April 2009. Project fellow for major research project
3.	Mr. Kapilkumar N. Ingle	Ph.D.	Strategies towards mitigation of pollution from tanneries	21/04/2006 Awarded in Sept. 2009 Awarded Japanese govt. fellowship, Japan

4.	Mr. Yogesh D. Bafna	Ph.D.	Remediation of soils polluted by heavy metals using salts of organic acids and chelating agents	26/09/2007 Awarded in February, 2013
5.	Mr. Ajani Mehboobali Sadruddin	Ph.D.	Family disaster risk management plan: A study	09/10/2010 Awarded on 18 th Feb 2013
6.	Mr. Anand C. Sonawane	Ph.D.	Strategies to develop microbial method for decolourization of cango, Procoin red in an effluent treatment plant using anaerobic system	26/09/2007 Awarded on 27 th August 2013. Project fellow for UGC major research project
7.	Mr. Mukesh N. Kulkarni	Ph. D.	Advanced techniques for combination of photo-oxidation process with biological treatment in wastewater	22/01/2009 Awarded in 28 th May, 2013.
8.	Miss. Aafreen E. Syed	Ph. D.	Strategies to develop biotechnological aspects for capsular immobilization of sulphate reducing bacteria in wastewater treatment	22/01/2009 Awarded on 30 th December 2013.
9.	Miss. Mridula B. Ram	Ph.D.	Quality assessment of river waghur with reference to flora and fauna	23/01/2007 Awarded on 28 th Jan. 2014. Rajiv Gandhi Fellowship awarded in 2004-07
10.	Mr. Sheejan Thomas	Ph.D.	Pollution Status of River Waghur and Tapi: A Comparative Study of North Maharashtra Region.	05/07/2011 Awarded on 19 th Feb. 2017
11.	Mr. Harshad Kakade	Ph.D.	Impact of Sewage on Soil-Plant Health in Raver Area of North Maharashtra Region	06/05/2013 Rajiv Gandhi Fellowship awarded in 2013 Awarded 18 th Nov. 2019.

12.	Mr. Ganpat B. More	Ph.D.	Strategies to develop techniques for combination of textile wastewater treatment using submerged membrane bioreactor	09/02/2015 Raisoni Fellowship Project fellow Awarded on 08 th Feb. 2021
13.	Mr. Shridhar K. Jadhav	Ph.D.	Competitive adsorption of hexavalent chromium and leather dyes from tannery effluent using biochar derived from plant residue: A cost effective technique	21/05/2018 BARTI Fellowship Work is in progress
14	Ms. Rakshanda M. Ingale	Ph.D.	Development of Aerobic Granular Sludge Membrane Bioreactor for the Textile Industrial Effluent Treatment	02/11/2020 Work is in progress
15	Mr. Sachin R. Bagul	Ph.D.	To Develop a Technology for Pollutants Removal by Microbial Fuel Cell System; An Approach for Distillery Wastewater Treatment	02/11/2020 Work is in progress
16	Mr. Vijay Ramesh Rakte	Ph.D.	A Study on Viable Alternatives of Wastewater Treatment for Small Cities Using Carbonaceous Nanoparticles	02/11/2020 Work is in progress

Number of projects awarded by various funding agencies

Sr. No.	Project Title	Funding agency	Amount Rs.	PI / CI	Duration
1.	Heavy Metal Uptake and Tolerance by <i>Medicago Sativa</i>	UGC scheme of Unassigned Grant	12,000/-	Principle Investigator	Two Years Completed
2.	Environmental Awareness for Sustainable development	Ministry of Environment and forests, New Delhi.	5000/-	Co-ordinator	Envi. Rally was organized for 2days at various schools (2002-03) Completed
3.	Rainwater Harvesting in Rural/urban Areas	Ministry of Environment and forests, New Delhi.	7200/-	Co-ordinator	Exhibition / Competition and Demonstration (2003-04) Completed
4.	Domestic wastewater for Productive Use. Under theme water – elixir of Life.	Ministry of Environment and forests, New Delhi.	7000/-	Co-ordinator	Exhibition / Competition and Demonstration (2004-05) Completed
5.	Development of In-situ, Ex-situ Bioremediation of hexavalent chromium from tannery waste, soil and ground water.	U.G.C., New Delhi	5,80,600/- Lakhs	Principal Investigator	Completed
6.	Wealth from waste in rural/urban areas	Ministry of Environment and forests., New Delhi	8200/-	Co-ordinator	Exhibition / Competition and Demonstration (2005-06) Completed
7.		Ministry of Environment	5000/-	Co-ordinator	Exhibition / Competition

8.	Household waste and composting under solid waste management	and forests., New Delhi			and Demonstration (2006-07) Completed
	Coupling of photo-oxidation process with biological treatment in textile and tannery industrial wastewater: A catalytic and technological aspect.	UGC, New Delhi	09,19,300/ - lakhs	Principal Investigator	01/01/2010 to 31/01/2012 (03 years) Completed
9.	Environmental Status Report of Jalgaon city 2008-09	Jalgaon Municipal Corporation, Jalgaon	04,95,000/ -	Principal Investigator	Completed
10.	Developing a microbial source tracking data base to determine host origin in Non-point source of Waghur watershed in Jalgaon district of Maharashtra.	DST SERB	05,50,000/ - lakhs	Principal Investigator	Ongoing for 2 years 2016-18

Number of Books

Sr. No.	Title of the Book	Author	Publication
1	Environmental Studies	S.T. Ingle and S. R. Thorat	Prashant Publications, Pune
2	Paryavaran for S.Y.J.C.	S. R. Thorat	Himalaya Publications, New Delhi
3	A Text book on Basic concepts in Environmental Sciences	S. R. Thorat and T. P. Chavan	Sattyalaksha Publication, Aurangabad
4	Industrial Safety, Health and Environment	S. R. Thorat and K. P. Dandge	Sattyalaksha Publication, Aurangabad.

Particulars of current research work at present level

- ❖ Presently we are working on coupling of photo-oxidation process with biological Treatment in textile and tannery industrial waste water: A catalytic and technological aspect.
- ❖ The investigation of photolysis as an environmental application is a reality novel subject with tremendous potential in near future.
- ❖ We are mainly concentrating on Bio-sensor for the treatment of tannery and textile waste water. The wastewater is highly contaminated with organic and inorganic matter.
- ❖ The end-of-pipe treated using two alternatives namely, the first treatment alternative chemical coagulation using ferric chloride aided with lime, followed by photo-catalytic oxidation.
- ❖ The second treatment alternatives are direct via heterogeneous photo-catalytic oxidation using titanium dioxide /ultra violet and hydrogen peroxide.
- ❖ We are trying to assess optimum operating conditions required for photo-catalytic oxidation such as contact time, doses of hydrogen peroxide and titanium dioxide to the tannery and textile waste water. The aim is to prepare bio-sensor for these wastewater treatment plants.
- ❖ Presently I am working on bioremediation technology in wastewater treatment for various industrial sectors. Planning to develop technology and go for patent.
- ❖ To generate new innovative ideas and utilize skills in our student so that while entering in industrial sector they can utilize their skills for industrial development and to reduce pollution load.
- ❖ Various projects will be incorporated by MOU with industries, Pollution Control Board, Ministry of Environment and Forests, New Delhi and various funding agencies.
- ❖ Some consultancy services to Municipal Co-operation of Aurangabad and nearby co-operations in the form of Environmental Status Report, Air and Water analysis, etc. will be carried out.
- ❖ As I am working on Industrial pollution control, Environmental legislation with Ecology and Environment these courses will be handled with outcome by placement of our students in various industries and in Pollution Control Board in India and Abroad.

Strategic Planning

- ❖ Defining operational plans for ensuring smooth running of the department.
- ❖ Spearheading curriculum planning, professional development and implementation of educational programs.

- ❖ Following university policies regarding budgetary process and procedures for the expenditure of campus-based budget, equipment, an infrastructural budget.
- ❖ Reviewing preset educational goals, objectives and classroom instructional programs, establishing academic and other performance objectives.

General Administration

- ❖ Innovating or redeveloping prevailing mechanisms and norms.
- ❖ Maintaining and handling day to day correspondence.
- ❖ Mentoring and counseling students and staff members.
- ❖ Work as Incharge Director of School of Environmental and Earth Sciences, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon during 16th November 2018 to 10th December, 2018.

Teaching

- ❖ Assessing student's work for internally assessed components of qualifications.
- ❖ Coordinating with faculty members for altering prevailing courses/ curriculum/ syllabus based on requirements.
- ❖ Teaching and tutoring as per academic curriculum to students and organizing inter-house activities.
- ❖ Recognizing, respecting and nourishing creative potential of each student.
- ❖ Setting and marking assignments and tests.
- ❖ Maintain records and writing reports on students.
- ❖ Involved in the redesigning syllabus as per norms and requirements of the students.

Course-Work

- ❖ Environment and Ecology.
- ❖ Water pollution.
- ❖ Industrial pollution and waste management.
- ❖ Environmental policies and legislation.

Additional Assignments

- ❖ Member of M.P.S.C., examination panel, Mumbai, MS, India
- ❖ Member, Faculty of Science, North Maharashtra University, Jalgaon.
- ❖ MOU has been signed between Kumamoto University, Japan (Medical division and water pollution Lab. of School of Environmental Sciences, North Maharashtra University, Jalgaon.
- ❖ Member, Ad-hoc board of studies, BOS Envi. Sciences, North Maharashtra University, Jalgaon.
- ❖ Chairman, B. Sc. Environmental Science North Maharashtra University, Jalgaon.
- ❖ Chairman, B. A., B. Com., B. Sc. and Engineering faculty for compulsory Environmental Science, North Maharashtra University, and Jalgaon. (2009-2017)
- ❖ Referee for International Dove Press Journal of Environmental Sciences, New Zealand.
- ❖ Referee for International ANU Journal of Natural Sciences, published by Dept. of Zoology and Aqua culture, Acharya Nagarjuna University, Nagarjuna Nagar, Guntur, (A. P.), India.
- ❖ Referee for International Journal of Modern Biotechnology, Published by Dr. A. G. Ingle, Head, Dept. of Biotechnology, School of Life Sciences, North Maharashtra University, Jalgaon (MS), India.
- ❖ Referee for Journal of Biotechnology and Bioinformatics, Published by Dr. A. G. Ingle, Head, Dept. of Biotechnology, School of Life Sciences, North Maharashtra University, Jalgaon (MS), India.
- ❖ Examiner in SRTM : University, Nanded Worked as examiner for M.Sc. Environmental Science and examiner for M. Phil. Course in Zoology (Spl. Environmental Biology)
- ❖ Contributed in some society serving programs for creating awareness and development of scientific temper.

External Examiner

- ❖ In other University Worked as external examiner for M Sc. Course at
 - Dr. B.A.M. University, Aurangabad,
 - S.R.T.M. University, Nanded.
 - Sant Gadge Baba Amravati University, Amravati.
 - R.S.T.M. Nagpur University, Nagpur.
 - Mumbai University, Mumbai.

- Shivaji University, Kolhapur.
- Solapur University, Solapur.
- Savitribai Phule University of Pune, Pune.
- ❖ Co-ordinator for M.Sc. Environmental Sciences, M. Tech. Environmental and M.Sc. Applied Geology Working as Co-ordinator of M.Sc. Environmental Sciences, M. Tech. Environmental and M.Sc. Applied Geology from 2008-2015.
- ❖ Academic coordinator for M.Sc. Environmental Sciences, M. Tech. Environmental Science and Technology, M.Sc. Applied Geology from 2016-2018.
- ❖ Admission committee coordinator for M.Sc. Environmental Sciences, M. Tech. Environmental Science and Technology, M.Sc. Applied Geology from 2018 till date.

Other Examination

- ❖ Worked at Jalgaon Worked as senior supervisor & Director for CAP of different examination.
- ❖ Presently working as Co-ordinator of academic committee for M. Sc. (Environment), M. Sc. (Applied Geology) and M. Tech (Environment).
- ❖ Examiner in NMU, Jalgaon from Nov. 1999 onwards: Worked as examiner for M.Sc. Environmental Science at North Maharashtra University, Jalgaon.

Doctoral thesis evaluator

- ❖ Thesis of various Universities has been evaluated for the award of Doctoral degree.
 - Acharya Nagarjuna University, Nagarjuna Nagar, Guntur (A.P.)
 - S. P. University of Pune.
 - S. R. T. Marathwada University, Nanded.
 - R. T. M. Nagpur University, Nagpur.
 - Hemchandracharya North Gujrat University, Patan (Gujarat)
 - Y. C. M. O. University, Nashik.
 - Tiruvalluvar University, Tamil Nadu.
 - Dr. B. A. M. University., Aurangabad.
 - J. N. University, New Delhi.
 - Doon University, Dehradun.
 - Kuvempu University, Shimoga, Karnataka.
 - Manonmanium Sundaranar University, Tirunelveli (T.N.)
 - Sardar Patel University, Vallabh Vidyanagar, Gujrat

- Sambalpur University, Odisha
- Central University of Kerala, Kerala
- Bharatidasan University, Trichirapalli

Invited lectures delivered

- ❖ Invited as president in the public lecture, organized by Municipal Corporation Jalgaon on the subject “Environmental Management and Pollution Status” at Jalgaon on 19th Nov. 2002 and given presidential address.
- ❖ Invited for public lecture, organized by Municipal Corporation Jalgaon on the subject “Solid waste Management Status” at Jalgaon on 28th Aug. 2005.
- ❖ Invited as speaker for engineering, water Dept., organized by Municipal Corporation Jalgaon on the subject “Rain water Harvesting” at Jalgaon on 18th June. 2007.
- ❖ Invited as speaker for the function of National seminar on Aquatic toxicology and Biodiversity dated 18th to 20th Feb. 2010 at Acharya Nagarjuna University Nagarjuna Nagar Guntur-10, A. P., and India.
- ❖ Invited Talk delivered on “Climate change, Carbon and Biodiversity in National Conference on “Recent Trends and Future Prospects in Biological Sciences” held on 18th – 19th Jan. 2013 organized by “Dept. of Botany, Maharashtra Udaygiri Mahavidyalaya, Udgir, MS, India.
- ❖ Invited Talk delivered on Wastewater Treatment Technologies and Chair the session in National conference on “Global Environmental Problems, its Impact and Solutions” held on 22nd and 23rd Feb. 2013 organized by Dept. of Zoology and Environmental Science, Netaji Subash Chandra Bose College, Nanded. MS, India.
- ❖ Invited as Resource Person for Training on IGA Promotion and Marketing and Federation for Women SHG’s leaders in Aurangabad Diocesan Social Service Society, Aurangabad on 10th Aug. 2013.
- ❖ Invited as Resource Person for Refresher Course in Environmental Studies on Water Treatment and its Technology at Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. held on 21st Aug. 2013
- ❖ Invited Talk delivered on Environmental Biotechnology in Dept. of Environmental Sciences, Dr. Babasaheb Ambedkar Marathwada University, and Aurangabad held on 30th Aug. 2013.
- ❖ Invited as Resource Person for Refresher Course in Environmental Studies on Biodiversity and its conservation Technology organized by Padmashri Vikhe Patil College of arts, science and commerce, Pravaranagar (Loni) University of Pune, Pune, held on 19th Oct. 2013.

- ❖ Invited talk on Assessment of photo-oxidation process in industrial effluent in International conference on Emerging Environmental and Advanced Oxidation Technologies for Energy, Environment and Sustainability, organized by Centre for environmental studies Anna University, Chennai-25 held on Sept 29-30th 2014.
- ❖ Invited as Resource Person for Refresher Course in Environmental Studies on Wastewater treatment technology for industries organized by Academic Staff College, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, held on 6th March. 2018.
- ❖ Invited as Resource Person for Refresher Course in Environmental Studies on Wastewater treatment technology for industries organized by D.N. College, Faizpur held on 4th October 2018 organized by Savitribai Phule Pune University, Pune.
- ❖ Invited as Resource Person for Refresher Course in Environmental Studies on Environmental Law in India for industries organized by K.T.H.M. College, Nashik held on 24th December 2018 organized by Savitribai Phule Pune University, Pune.
- ❖ Lecture delivered as a resource person to the teacher participants on the topic “ Environmental Law for protection during Covid-19” in refresher course in Environmental studies on 26th September, 2020 on online to the UGC HRD center, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
- ❖ Lecture delivered as a resource person and invited Speaker for National Webinar on Disaster Risk Reduction Awareness on the eve of international Disaster Risk Reduction Day-2020 Organized by Center for Environmental Education and Development (CEED), India in collaboration with Dept. of Environmental Science, Acharya Nagarjuna University, Guntur and Vijayawada Municipal Corporation, Vijayawada A.P. on 13th October 2020.
- ❖ Lecture delivered as a Resource Person to the teacher participants on the topic “Role of Societies in Environmental Sciences” online Refresher Course in Social Sciences on 11th December 2020 on online to the UGC HRD Center, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

Member of Academic Bodies

- ❖ Membership of Academic Bodies:
- ❖ Life member of (AAAS) American Association for Advancement of Science. New York.
- ❖ Referee for International Journal of Pakistan Scientific and Research Development (PCSIR) Karachi., Pakistan.

- ❖ Selected as a member of IBC (International Biographical Centre) Cambridge, England in Top 100 Scientists -2010, England.
- ❖ MOU has been signed between Kumamoto University, Japan (Medical division and water pollution Lab. of School of Environmental Sciences, North Maharashtra University, Jalgaon.
- ❖ Member, Ad-hoc board of studies, BOS Envi. Sciences, North Maharashtra University, Jalgaon.
- ❖ Chairman, B. Sc. Environmental Science North Maharashtra University, Jalgaon.
- ❖ Chairman, B. A., B. Com., B. Sc. And Engineering faculty for compulsory Environmental Science, North Maharashtra University, and Jalgaon.
- ❖ Coordinator for academic committee School of Environmental and Earth Sciences, North Maharashtra University, Jalgaon
- ❖ Referee for International Dove Press Journal of Environmental Sciences, New Zealand.
- ❖ Referee for International ANU Journal of Natural Sciences, published by Dept. of Zoology and Aqua culture, Acharya Nagarjuna University, Nagarjuna Nagar, Guntur, (A. P.), India.
- ❖ Referee for International Journal of Modern Biotechnology, Published by Dr. A. G. Ingle, Head, Dept. of Biotechnology, School of Life Sciences, North Maharashtra University, Jalgaon (MS), India.
- ❖ Referee for Journal of Biotechnology and Bioinformatics, Published by Dr. A. G. Ingle, Head, Dept. of Biotechnology, School of Life Sciences, North Maharashtra University, Jalgaon (MS), India.
- ❖ Member of M.P.S.C., examination panel, Mumbai, MS, India
- ❖ Member, Faculty of Science, North Maharashtra University, Jalgaon
- ❖ Referee for Springer Journal of Environmental Science.
- ❖ Member, Research and Recognition Committee in Environmental Science at Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon.
- ❖ Worked as Subject Expert for CAS Promotion for Professor in Environmental Science at Smt. Narsamma Arts, Commerce and Science College, Amravati on 20th November 2020.
- ❖ Coordinator for guide Allocation PET-2019 in the subject of Geography, Geology and Environmental Science Organized by Research Cell, Kavayitri Bahanabai Chaudhari North Maharashtra University, Jalgaon held on 02.11.2020.

- ❖ Chairman for Research Advisory Committee (RAC) for Ph.D. Six Monthly Progress Report of Applied Geology and Environmental Science online organized from School of Environmental and Earth Sciences, Kavayitri Bahanabai Chaudhari North Maharashtra University, Jalgaon held on 06.11.2020.
- ❖ Member of Ph. D Course work online meeting Organized by Punyashlok Ahilyadevi Holkar Solapur University, Solapur held on 08.12.2020

Organization of Scientific Conference / Workshop/ Seminars

- ❖ Organized “Environmental Awareness for Sustainable Development” funded by Ministry of Environment and forests, New Delhi through BAIF for Environmental rally held in 2002-03.
- ❖ Organized “Rainwater Harvesting in Rural/Urban Areas” funded by Ministry of Environment and forests, New Delhi through BAIF for Exhibition / Competition and Demonstration held in 2003-04.
- ❖ Organized Domestic wastewater for Productive Use under theme “Water – Elixir of Life”. Funded by Ministry of Environment and forests, New Delhi through BAIF for Exhibition / Competition and Demonstration held in 2004-05.
- ❖ Organized “Wealth from Waste in Rural/Urban Areas” funded by Ministry of Environment and forests, New Delhi through BAIF for Exhibition / Competition and Demonstration held in 2005-06.
- ❖ Organized “Household Waste and Composting under Solid Waste Management” funded by Ministry of Environment and forest, New Delhi through BAIF for Exhibition / Competition and Demonstration held in 2006-07.
- ❖ Member of University level Avishkar 2013: Sustainable Growth through Innovation Organized by North Maharashtra University, Jalgaon. held on 18th and 19th Oct. 2013
- ❖ Chaired Session in Pre- Science Congress 2014 Conference on Science and Technology for Human Development Organized by ISCA-Aurangabad Chapter Dr. Babasaheb Ambedkar Marathwada University, Aurangabad held on Dec. 30-31st 2014.
- ❖ Member of Organizing Committee as a Coordinator for Clean Environment Committee at 8th Maharashtra State Inter-University Research Convention Sustainable Growth through Innovation: Avishkar 2014 Organized by North Maharashtra University, Jalgaon during 16th - 18th Jan. 2014.

- ❖ Convener for National Conference on Recent Trends in Health, Safety and Environmental Management (RTHSEM-2014) Organized by School of Environmental and Earth Sciences, North Maharashtra University, during 24th Feb. 2014.
- ❖ Coordinator for Clean Environment Committee at the University Level Research Convention Sustainable Growth through Innovation: Avishkar 2014 Organized by North Maharashtra University, Jalgaon during Oct 17th -18th 2014.
- ❖ Coordinator for Lecture Series on Role of Biochemical Resources in Environmental Management Organized by School of Environmental and Earth Sciences, North Maharashtra University, Jalgaon during 09th Jan. 2017
- ❖ Member of Organizing Committee for National Conference on Monitoring and Assessment of Natural Resources for Sustainable Management (MANRSM-2017) Organized by School of Environmental and Earth Sciences, North Maharashtra University, Jalgaon during 23rd -24th Jan. 2017.
- ❖ Member of Organizing Committee for one-day National workshop on GIS Applications in Natural Resources Management Organized by School of Environmental and Earth Sciences, North Maharashtra University, Jalgaon. during 10th Feb 2017.
- ❖ Member of Organizing committee for Celebration of International Ozone day, interschool elocution and power point competition held on 16th September 2017. Organized by School of Environmental and Earth Sciences, North Maharashtra University, Jalgaon
- ❖ Convener for National Conference on Advances in Environmental Sciences and Geospatial Technology (AESGT-2018) Organized by School of Environmental and Earth Sciences, North Maharashtra University, held on 15th and 16th Feb. 2018.
- ❖ Coordinator for National Science Day Celebration -2018 Under the theme science and Technology for the sustainable future Organized by School of Environmental and Earth Sciences, North Maharashtra University, Jalgaon and Sponsored by NCSTC, DST, Govt. of India and Rajiv Gandhi Science and Technology Commission, Govt. of Maharashtra held on 9th and 10th March 2018.
- ❖ Member of organizing committee for Avishkar 2018 held of 27th December 2018 organized by Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon.
- ❖ Member of organizing committee for Avishkar 2018 held of 2nd and 3rd January 2019 organized by Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon.

- ❖ Member of organizing committee for university level workshop on Impact of global warming on climate held of 25th January 2019 organized by School of Environmental and Earth Sciences, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon.
- ❖ Co-Convener for National Conference on Innovation in Environmental and Earth Sciences for Sustainable Future (IEESSF-2019) organized by School of Environmental and Earth Sciences, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon held on 27th and 28th February 2019.

Work experience in NSS/ NCC

- ❖ Various guest lecturers for NSS Programme have been delivered for PG unit of North Maharashtra University, Jalgaon.

Selection Committee Member

- ❖ Subject expert for Environmental Sciences, School of Environmental and Earth Sciences, North Maharashtra University, Jalgaon.
- ❖ Subject expert for Geography, School of Environmental and Earth Sciences, North Maharashtra University, Jalgaon.
- ❖ Subject expert for M.Tech. Environmental Sciences, School of Environmental and Earth Sciences, North Maharashtra University, Jalgaon.
- ❖ V. C. nominee for various subject interviews in B.P. Arts and Science College, Chalisgaon.
- ❖ V. C. nominee for various subject interviews in Arts and Science College, Bhalod.
- ❖ V. C. nominee for various subject interviews in G. T. P. College, Nandurbar.
- ❖ V. C. nominee for various subject interviews in M. J. College, Jalgaon.
- ❖ Subject expert for Environmental Science N.S.B. College, Nanded.
- ❖ Subject expert for Environmental Sciences in Central University of Kerala, Kasaragod, Kerala.
- ❖ Subject expert for Environmental Sciences in Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
- ❖ Expert for Avishkar 2018 at R.C. Patel College, Shirpur, Dhule held on 26th December 2018 organized by Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon.

- ❖ VC Nominee for CAS Professor at S.G. Patil Arts, Science and Commerce College, Sakri, Dhule held on 29th December 2018 organized by Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon.
- ❖ Visit to Ajanta Pharma Ltd. Aurangabad to conduct Environmental Audit on 31st December 2018 as one of the Expert.
- ❖ Member of Organizing committee for Avishkar-2018 organized by Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon on 27th December 2018.
- ❖ Member of Organizing committee for Avishkar-2018 organized by Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon on 2nd and 3rd January 2019.
- ❖ Member of Organizing committee for Workshop on Impact of Global Warming on Climate organized by School of Environmental and Earth Sciences, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon on 25th January 2019.
- ❖ Member of Research and Recognition Committee (RRC) in Environmental Sciences, faculty of Science and Technology, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon.
- ❖ Subject expert for Environmental Sciences interview in Dr. Babasaheb Ambedkar Marathwada University, Aurangabad held on 7th March. 2018.
- ❖ Expert Member for Avishkar-2018 organized by Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon on 27th December 2018.
- ❖ Expert Member for Avishkar-2019 Phase II Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon to Arts, Science and Commerce College, Chopda on 30th December 2019.
- ❖ Expert to Trained State Level Participants for Avishkar-2019 Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon 10th to 13th January 2020. Chief Guest and lecture deliver for Sawachata Pandarvada, 2020. Institute of Management and Research (IMR). Jalgaon on 29th January 2020
- ❖ Work as a VC nominee for selection of Assistant Professor and Associate Professor in Prof. Ravindra Nikam College of Pharmacy, Gondur, District Dhule on 27th August 2019.
- ❖ Work as a Subject Expert for selection of Assistant Professor and Associate Professor in Kohinoor College, Khultabad, District Aurangabad on 10th September 2019.
- ❖ Selection Committee Member as a Subject Expert for Environmental Sciences in Udaygiri College, Udgir of S. R. T. M. University, Nanded.

- ❖ Work as a Subject Expert for District level Avishkar 2019 in S G Patil College, Sakri on 30th December 2019.
- ❖ Work as Expert for Training State Level Participants for Avishkar-2019 for Phase-I and Phase-II from 10th to 13th January 2020.
- ❖ Work as a VC Nominee for Selection of Assistant Professor, Associate Professor and CAS in Arts, Science and Commerce College, Chopda District Jalgaon on 16th March 2020.
- ❖ Member of the Ad-hoc Board of Environmental Science. Kavayitri Bahanabai Chaudhari North Maharashtra University, Jalgaon.
- ❖ Member of the Research Recognition Committee (RRC) of Environmental Science. Kavayitri Bahanabai Chaudhari North Maharashtra University, Jalgaon.
- ❖ Worked as Subject Expert for CAS Promotion for Professor in Environmental Science at Smt. Narsamma Arts, Commerce and Science College, Amravati on 20th November 2020.
- ❖ Worked as Vice Chancellor Nominee and Committee Member for CAS Promotion of Professor for Director, Physical Education at Vidya Wardhini Sabhas Arts, Commerce and Science College, Dhule held on 21st June 2021.
- ❖ Member of Institutional Research Ethics Committee of Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon appointed on 30th June 2021.
- ❖ Member of UGC Quality Mandate: Suggestive Academic Activities-Constitution of Task Group of Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon appointed on 30th June 2021.
- ❖ Participate for NAAC Assessor in Virtual Assessors Orientation Programme (V-AOP) being organized by National Assessment and Accreditation Council (NAAC) Bengaluru on 14th and 15th July 2021.

Presented Seminars /Symposiums / Workshop / Conferences

- ❖ Presented a paper entitled “Effect of tannery effluent on seed germination seedling growth and pigment of *Pennisetum typhorides* (Barn)” at the National symposium on “Environmental issues and strategies for sustainable development” Organized by Dept. of Envi. Science, Dr. B. A. M. U., Aurangabad from 23rd-25th January 1998.
- ❖ Presented a paper entitled “Effect of CuSO₄ on ascorbic acid content of freshwater fish.” At the National conference cum workshop on “Biodiversity- evaluation, conservation and need for establishment of data bank” Organized by Dept. of Botany, University of Jammu, Jammu from 11th-13th December 1998.
- ❖ Presented a paper in National seminar on “Environmental awareness and natural resources conservation” organized by Dept. of Environmental Science, Dr. B.A.M.U., Aurangabad from 25th -27th December 1998.
- ❖ Presented a paper in National seminar on “Pollution, its control and disaster planning” organized by MSP Mandal Deogiri College, Aurangabad from 27th -28th February 1999.
- ❖ Presented a paper in National level seminar on “Sustainable Environment: Challenges of the Next Millennium” organized by Govt. College of Arts & Science, Aurangabad, held on 16th and 17th December 2000.
- ❖ Presented a paper in National conference on “Management of water resources: Emerging challenges, trends and Solutions” organized by Yashwant Mahavidyalaya, Nanded and sponsored by UGC New Delhi. Held on held on 21st and 22nd February 2003.
- ❖ Presented a paper International conference on “Biodiversity Conservation and management”. Organized by Cochin University of Science and Technology (CUSAT), Cochin, Kerala, India held on 3rd to 6th February 2008.
- ❖ Presented a research paper in National Level Seminar on “Environmental Bioremediation Technologies (NSEBT 2009)” held on 5th and 6th Nov. 2009 organized by Dept. of Environmental Management, Bharathidasan University, Tiruchirappalli, Tamil Nadu, India.
- ❖ Presented a research paper in International conference on “Global Food Security: Concern, Reality and Remedies”, in Collaboration with CETYS University, Mexico held during 28th and 29th January 2010 organized by Dept. of Management Studies, North Maharashtra University, Jalgaon.
- ❖ Research paper presented on “National seminar on Emerging trends in Biodiversity and Environment” (ETBE - 2010) held on 26th Feb., 2010 organized by Institute of Science, Aurangabad.
- ❖ Presented paper in National Conference on “Green Engineering and Environmental Pollution” during 10th -11th Feb. 2012 organized by Dept. of Civil Engineering, JNEC, Aurangabad

- ❖ Presented paper and chaired session in International Seminar on “Emerging Threats and Challenges to Biodiversity: Policy Framework for Sustainable Management” during 2nd -4th March, 2012 organized by Dept. of Botany, S.V. University, Tirupati, A.P. India.
- ❖ Presented paper in National Conference on Recent Trends and Future Prospects in Life Sciences held on 27th and 28th December 2012 organized by Dept. of Botany, Mahatma Gandhi Mahavidyalaya, Ahmedpur Dist. Latur. MS, India.
- ❖ Presented paper on Biodiversity and its conservation in National Conference on “Eco-studies/Green Studies: Perspective from Literature, Life Sciences and Earth Sciences” held on 02nd and 03rd Feb. 2013 organized by Dept. of Zoology, Deogiri College, Aurangabad MS, India.
- ❖ Presented paper on Photo-catalytic technological aspect used in Industrial wastewater treatment process in International Conference on “Emerging Environmental and Advanced Oxidation Technologies for Energy, Environment and Sustainability” during 29th - 30th Sept. 2014 organized by Centre for Environmental Studies, Dept. of Chemistry and Centre with Potential for Excellence in Environmental Sciences, Anna University, Chennai.
- ❖ Presented paper on Assessment of photo-oxidation using different catalyst in textile effluent in International Conference on “Ethical Prospects: Economy, Society and Environment (ICEPESE-2015)” during 13th and 14th March, 2015 organized by Ratnagiri Sub-Center, University of Mumbai in Association with ICSSR-WRC, Mumbai.
- ❖ Presented paper on The Status of Sediment and Heavy Metal Pollution in Waghur River of Jalgaon in Khandesh Area of Maharashtra, India in International Conference on Science and Technology for Sustainable Development, (ICSTSD-2016) held during 24th – 26th May, 2016 at Hotel Istana, Kuala Lumpur, Malaysia.
- ❖ Presented a paper entitled, “Impact of Irrigation with Sewage Water on Heavy Metal Content in Soil and Crops of Raver Area of Khandesh Region of Maharashtra, India.” at two days 7th International Science Congress (ISC-2017) held on 08th and 09th December 2017 at College of Science and Technology, Rinchending, Phuentsholing, Chukkha, Bhutan.

Plenary Lectures/ Keynote Address

- ❖ Lead lecture on Environmental Toxicology in National seminar on “Aquatic Toxicology and Biodiversity” held on 18th to 20th Feb. 2010 organized by Acharya Nagarjuna University, Nagarjuna Nagar, Andhra Pradesh
- ❖ Plenary Lecture delivered on “Climate change, Carbon and Biodiversity in National Conference on “Recent Trends and Future Prospects in Biological Sciences” held on 18th – 19th Jan. 2013 organized by “Dept. of Botany, Maharashtra Udaygiri Mahavidyala, Udgir, MS, India.
- ❖ Plenary Lecture delivered on Wastewater Treatment Technologies and Chair the session in National conference on “Global Environmental Problems, its Impact and Solutions” held on 22nd and 23rd Feb. 2013 organized by Dept. of Zoology and Environmental Science, Netaji Subash Chandra Bose College, Nanded. MS, India.

- ❖ Invited as Resource Person for Refresher Course in Environmental Studies on Water Treatment and its Technology at Dr. Babasaheb Ambedkar Marathwada University Aurangabad, held on 21st Aug. 2013.
- ❖ Keynote Address on “Environmental Pollution and Management in National Seminar on Sustainable Development and Environment organized by Sattyalaksha Bahu Udeshiya Shikshan Sanstha, Aurangabad held on 22nd and 23rd August, 2013.
- ❖ Invited Talk delivered on Environmental Biotechnology in Dept. of Environmental Sciences, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad held on 30th Aug. 2013.
- ❖ Plenary Lecture delivered on A case study of forest migrated people of the Satpuda in Khandesh region in International conference on “Ecosystem conservation, Climate change and sustainable development (ECOCASD-2013)” held on 3rd to 5th Oct. 2013 organized by Dept. of aquatic biology and fisheries, in University of Kerala Thiruvananthapuram, India.
- ❖ Invited as Resource Person for Refresher Course in Environmental Studies (3rd to 23rd Oct. 2013) on Biodiversity and its conservation Technology organized by Padmashri Vikhe Patil College of Arts, Science and Commerce, Pravaranagar (Loni) University of Pune, Pune, held on 19th Oct. 2013.
- ❖ Plenary Lecture delivered on A case study of forest migrated people of the Satpuda in Khandesh region in International conference on “Ecosystem conservation, Climate change and sustainable development (ECOCASD-2013)” organized by Dept. of aquatic biology and fisheries, in University of Kerala Thiruvananthapuram, India. held on 3rd -5th Oct. 2013.
- ❖ Invited as Resource Person for Refresher Course in Environmental Studies on Wastewater treatment technology for industries at D.N. College, Faizpur held on 4th October 2018 organized by Savitribai Phule Pune University, Pune.
- ❖ Invited as Resource Person for Refresher Course in Environmental Studies on Environmental Law in India for industries at K.T.H.M. College, Nashik held on 24th December 2018 organized by Savitribai Phule Pune University, Pune.
- ❖ Co-Convener for National Conference on Innovation in Environmental and Earth Sciences for Sustainable Future (IEESSF-2019) organized by School of Environmental and Earth Sciences, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon on 27th and 28th February 2019.
- ❖ Coordinator for National Science Day Celebration -2019 Under the theme Sustainability through innovations for better livelihood organized by School of Environmental and Earth Sciences, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon on 15th March 2019.

- ❖ Invited as Resource Person for National Seminar on “Eco-friendly Technologies for Sustainable Waste Management”. U. G. C., New Delhi. Acharya Nagarjuna University, Guntur Andhra Pradesh. 7th – 8th February 2020.
- ❖ Coordinator for Clean / Green Environment Committee in Avishkar 2019 Phase-I and Phase-II. Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon on 8th and 9th January 2020.
- ❖ Chief Guest for lecture series organized by Dept. of Mass Communication and Journalism, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon on 31st January 2020.
- ❖ Invited Talk deliver in UGC Sponsored National Seminar on “Eco-friendly Technologies for Sustainable Waste Management”. Organized by Acharya Nagarjuna University, Guntur Andhra Pradesh on 7th – 8th February 2020.
- ❖ Worked as Expert for Evaluation of Poster for online National Level Poster Competition Register under United Nations Environment Programme Organized by Dept. of Environmental Science, Dnyaneshwar Maskuji Burungale Science and Arts College, Shegaon. Dist. Buldana. MS Conducted on 5th June 2020.

Attended Seminars /Symposiums / Workshop / Conferences

- ❖ Attended National Seminar on “Modern trends and approaches in pollution prevention and control” Organized by SBES College of Science, Aurangabad from 29th - 30th March 1998.
- ❖ Participated in National conference on ‘Environmental Monitoring Bio-Diversity and Conservation’ organized by Rastriya Arts, Science and Commerce college, Chalisgaon held on 24th to 27th December 2000 sponsored by Ford Foundation under Campus Diversity initiative project.
- ❖ Participated in Seminar on “Keep our Environment clean and green” National Environment Awareness Campaign 2001, Organized by School of Life Sciences, N.M.U., Jalgaon.
- ❖ Participated in Workshop on “Conducting socio-economic survey of irrigation projects”. Organized by Water and land management institute, Aurangabad held on 23rd and 24th February 2004.
- ❖ Participated in National Conference on “Frontiers in Environmental sciences and Engineering in India” organized by Dept. of Environmental Sciences, Bharathiar University, Coimbatore held on 15th Sept. 2005.
- ❖ Actively participated in One-day workshop on ‘National Watershed Development and Management’ held on 19th Sept. 2008 at School of Environmental and Earth Sciences, North Maharashtra University, Jalgaon.

- ❖ Actively participated in Poster with Slogan Competition on World Ozone Day (16th September) 2009 in School of Environmental and Earth Sciences, North Maharashtra University, Jalgaon.
- ❖ Attend and actively participated in two days workshop on “Integrated Studies in Astronomy” in celebration of International Astronomy Year-2009 organized by School of Environmental and Earth Sciences, North Maharashtra University, Jalgaon on 24th and 25th September 2009.
- ❖ Actively participated in National Conference on c held on 1st and 2nd Feb. 2010 Organized by School of Environmental and Earth Sciences, North Maharashtra University, Jalgaon.
- ❖ Actively participate in “Vindhyan shikshan va lekhan me Marathi shabdavali ka mahatva” held on 1st -2nd Oct. 2010 Organized by Babaji Mahavidyalaya, Kada, Dist. Beed. Sponsored by Human Resource Ministry New Delhi.
- ❖ Actively participate and Member of National Conference on Environmental Innovations for Resource Sustainability EIRS-2011 held on 21st and 22nd Jan 2011 Organized by School of Environmental and Earth Sciences, North Maharashtra University, Jalgaon.
- ❖ Participated in International Conference on “Biodiversity and Aquatic Toxicology” during 12th -14th Feb. 2011 organized by Dept. of Zoology and Aquaculture, Acharya Nagarjuna University, Nagarjunanagar, A.P., India
- ❖ Actively participated as a Member for Registration and Hospitality Committee in University Level Research Festival AVISHKAR – 2012 held on 13th and 14th December 2012 organized by North Maharashtra University, Jalgaon, MS, India.
- ❖ Actively Participated and member of National workshop on Challenges and Opportunities in Environmental Pollution and Health COEPH-2013 held on March 12th -14th 2013 Organized by School of Environmental and Earth Sciences, North Maharashtra University, Jalgaon.
- ❖ Member of National Science Day Celebration Organized by School of Environmental and Earth Sciences, North Maharashtra University, Jalgaon held on 15th March 2013.
- ❖ Presented a paper entitled, “Impact of Irrigation with Sewage Water on Heavy Metal Content in Soil and Crops of Raver Area of Khandesh Region of Maharashtra, India.” at two days 7th International Science Congress (ISC-2017) held on 08th and 09th December 2017 at College of Science and Technology, Rinchending, Phuentsholing, Chukkha, Bhutan.
- ❖ Worked ad Expert for Evaluation of Poster for online National Level Poster Competition Register under United Nations Environment Programme. Register under United Nations Environment Programme Dept. of Environmental Science, Dnyaneshwar Maskuji Burungale Science and Arts College, Shegaon. Dist. Buldana. M.S. on 5th June 2020.
- ❖ Lecture delivered on webinar as a Resource Person and invited Speaker for National Webinar on Environmental Conservation: Your Social Responsibility (YSR) During COVID-19. Organized by Dept. of Environmental Science, Acharya Nagarjuna University, Guntur A.P. on 30th June 2020.

- ❖ Lecture delivered as a resource person to the teacher participants on the topic “Effluent treatment plant” in refresher course on Biological science and technology with the theme “Science and Technology for Rural Prosperity” on 21st September 2019 in the UGC HRD center, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
- ❖ Lecture delivered as a resource person to the teacher participants on the topic “Enacted Environmental Law for protection” in refresher course in Environmental studies and sustainable Development on 12th October 2019 in the UGC HRD Center, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
- ❖ Delivering environmental awareness and environmental educational lectures in school, colleges and different Universities in all over the Maharashtra as a subject expert.
- ❖ 04 days’ Workshop attended on “Online learning: Live classroom Teaching Platforms”. Organized by Kavayitri Bahanabai Chaudhari North Maharashtra University, Jalgaon on 20th to 23rd July 2020.
- ❖ Participate for NAAC Assessor in Virtual Assessors Orientation Programme (V-AOP) being organized by National Assessment and Accreditation Council (NAAC) Bengaluru on 14th and 15th July 2021.

Detailed Research Paper Published in Various National and International Journals

1. Thorat S. R., Khan M. Y. and Wagh S. B. (2000) “Effect of Bulk drug manufacturing unit effluent on survival and mortality of freshwater fish, *Channa Gachua*”. Proceeding on Environmental issues and sustainable development issue 1, Pp 26-27.
2. Thorat S. R., Khan M. Y. and Wagh S. B. (2000) “Effect of Tannery effluent on Seed germination, seedling growth and pigment of *Pennisetum typhoids* (BARM)”. Proceeding on Environmental issues and sustainable development issue 1, Pp 44-46.
3. Wagh N. S., Khan M. Y., Thorat S. R. and Wagh S. B. (2000) “A study of physico-Chemical Parameter Pharmaceutical Industry at Aurangabad (MS), India”. Proceeding on Environmental issues and sustainable development issue 1, Pp 66-67.
4. Thorat S. R. and Wagh, S.B. (2000) "Physico-chemical analysis of tannery waste". J. Industrial Pollution Control. 16, Pp. 107-109. ISSN: 0960-0342
5. Thorat S. R. (2000) "Chromium removal from tannery effluent". Bull. Envi. Sci. Vol. XVIII, Pp. 31-34. ISSN: 0971-1732
6. Thorat S. R. and Sultana, M. (2000) "Pollution Status of Salim Ali Lake at Aurangabad". Pollution Research. 19 (2), Pp. 307-309. ISSN: 0960-1673

7. Thorat S. R. and Wagh, S.B. (2001) "Oxygen consumption of freshwater fish, *Channa Gachua* exposed to tannery effluent". Ind. J. Environ. Ecol. 5(1), Pp. 203-206. ISSN: 0972-1215
8. R. T. Chaudhari and S. R. Thorat (2001) "Effect of Cadmium chloride and Lead Chloride on Arginase activity of freshwater Bivalve, *Parreysia Cylindrica*" J. of Bull. of Envi. Sci., Vol. XIX Pp. 17-18. ISSN: 0971-1732
9. Thorat S. R. and Wagh, S.B. (2001) "Effect of Copper Sulphate on ascorbic acid content of freshwater fish, *Channa Gachua*". J. Ecotoxicology. Environ. Monit. 11(1), Pp. 35-38. ISSN: 0971-0965
10. Thorat S. R. and Wagh, S.B. (2001) "Effect of tannery effluent on protein metabolism of freshwater fish, *Channa Gachua*." Bull. Envi. Sci, Vol. 19, Pp. 1-5. ISSN: 0971-1732
11. Patil, S., Bhalerao, T., Patil, A.V., Thorat S. R. and Solunke, B.K. (2001) "Bacterial study of Unapdeo thermal spring of Maharashtra (India)". Bull. Envi. Sci, Vol. 19, Pp. 7-8. ISSN: 0971-1732
12. Thorat S. R. (2001) "Histopathological changes in the intestine of the fish, *Channa Gachua* exposed to tannery effluent". J. Poll. Res. 20 (2), Pp. 267-270. ISSN: 0960-1673
13. Thorat S. R. (2001) "Chronic effect of Endosulfan on freshwater fish, *Catla catla*". J. Ecotoxicology. Environ. Monit. 1(4) Pp.221-225. ISSN: 0971-0965
14. Thorat S. R. (2002):"Surface and ground water quality of M.I.D.C. Chikalthana area at Aurangabad." Bull. Envi. Sci., Vol. XIX., Pp 15 – 16. ISSN: 0971-1732
15. Bhambre M.A. and Thorat S.R. (2002): Impact of fly Ash on physico-chemical characteristics of soil. Bull. Envi. Sci., Vol. XIX., Pp 1 – 6. ISSN: 0971-1732
16. Gaikwad S.R. Thorat S. R. and T.P. Chavan (2004) "Phytoplankton and zooplankton diversity with respect to pollution starts of river Tapi in North Maharashtra Region J. of Current sciences. 5 (2): Pp.749-754. ISSN: 0972-6101
17. Chavan T.P. and Thorat S. R. (2004): "Impact of industrial effluents on water quality of river Sukna in M.I.D.C., Chikalthana, Aurangabad. Bull. Envi. Sci. Vol. I 2nd issue Pp 113-115 ISSN: 0971-1732
18. Thorat S. R. and R.T. Chaudhari (2004) "Efficacy of tannery effluent on micro-biota of the plant, *Cymopsis tetragonoloba*". J. of Current sciences. Vol. VIII Pp 33-38. ISSN: 0972-6101
19. Ingle K.N., Sonawane A.C., Bafna Y.D. and Thorat S. R. (2005): "A study of physicochemical characteristics of Padmalya and Girna lake water in Jalgaon Maharashtra. Bull. Env. Sci. Vol. 23rd 2nd Issue Pp 39-41. ISSN: 0971-1732
20. Gaikwad S.R and Thorat S. R. (2006) "Study of selected heavy metals a residential area nearby Tapi River, Bhusawal. Bull. Env. Sci. Vol. 4th issue Pp 71-75. ISSN: 0971-1732

21. Wani P.P., K. N. Ingle, A. C. Sonawane and S. R. Thorat (2006): "A case study on reduction and recovery of tannery effluent containing trivalent chromium by chemical method. Bull. Env. Sci. Vol. 24th 2nd issue Pp 145-149 ISSN: 0971-1732
22. Aafreen Syed, Kulkarni Mukesh, Narkhede S., Chavan A., Karpate H., and S. R. Thorat: (2006) "Accumulation of heavy metals in lichens growing in Padmalya forest of Jalgaon in North Maharashtra Region." Bull. Agriculture Science. Vol. 5 Pp 41-45. ISSN: 0973-4023
23. Kulkarni M.N., Karpate H.S., Sayed Aafreen, Chavan A.V., Narkhede S.D. and Thorat S. R. (2006) "Impact of chromium on seed germination and seedling vigour of some legumes." Bull. of Bio. Sci. Vol. 4 issues II Pp. 133-136. ISSN: 0976-4518
24. Wani P.P. and S. R. Thorat (2007) "Correlation study on physicochemical characteristics of untreated and treated effluents of pulp and paper industry." J. Current World Environment Vol. 2(1), Pp. 21-26. ISSN: 0973-4929
25. Wani P.P., Sonawane A.C. and S. R. Thorat (2007) "Reduction of chromium by microbial method: transmission electron microscopic study using electron energy loss spectroscopy in-situ Environmental cells." J. Pure and Applied Microbiology, Vol. 1(2), Pp. 331-334. ISSN: 0973-7510
26. Wani P.P and S. R. Thorat (2007): "Isolating metal tolerance bacteria capable to remove chromium from tannery waste". J. Biosciences, Biotechnology Research Asia, Vol.4 No.2, Pp 733-736. ISSN: 0973-1245
27. Jadhav R. N., Rajput S. M., Nahalade S. M., Khatik V. A., and S. R. Thorat (2007): "Removal of Zn, Pb and Cd ions from soil using cereals". Current world Environment, Vol. 2(2), Pp183-186. ISSN: 0973-4929
28. Gaikwad, S. R., K. N. Ingle and S. R. Thorat (2008): "Study of Zooplankton emergence pattern and resting egg diversity of recently dried water bodies in North Maharashtra Region". J. Environmental Biology. Vol. 29(3), Pp 353-356. ISSN: 0254-8704
29. Wani P. P. and S. R. Thorat (2008): "Heavy metal adsorption by clinoptilolite from aqueous solutions". J. Current World Environment. Vol.3 (1), Pp 135-141. ISSN: 0973-4929
30. Sonawane A. C. and Thorat S. R. (2008): "Bio-culture and characteristic of dye decolorizing bacteria isolated from textile industry for treatment of wastewater", J. Pure and Applied Microbiology, Vol.2 No.2, Pp 497-500. ISSN: 0973-7510
31. Sonawane A. C., Ram Mridula B. and Thorat S. R. (2008): "Study of medicinal plants in North Maharashtra University campus of Jalgaon city in Khandesh area of Maharashtra, India", J. of Biosciences Biotechnology Research Asia, Vol. 5(2), Pp 741-746. ISSN: 0973-1245
32. Bafna Y. D. and Thorat S. R. (2008): "Study on retention form of heavy metals in three polluted soil of North Maharashtra region", J. of Biosciences Biotechnology Research Asia, Vol. 5(2), Pp767-772. ISSN: 0973-1245

33. A. C. Sonawane, R. T. Chaudhari, Y. D. Bafna, M.N. Kulkarni, B. Ram Mridula and S. R. Thorat (2008): "Assessment of medicinal plant *Cymbopogon citrates* in north Maharashtra University campus of Khandesh region", J. of Current World Environment, Vol. 3(2), Pp269-272. ISSN: 0973-4929
34. Bafna Y. D. and Thorat S. R. (2009): "Remediation of Clay loam polluted soil with heavy metals using Organic acids", J. of Bull. Chem. Sci., Vol. VI issue I, Pp13-21. ISSN: 0973-8134
35. Syed Aafreen E., Radhika Sali, Jayashree Nehete and Thorat S. R. (2009): "Study on Physico-Chemical characteristics and water quality index of Jalgaon city, Maharashtra", J. Bull. Geographical Sci., Vol. IV (1st Issue), Pp. 7-12. ISSN: 0976-3683
36. A. C. Sonawane and S. R. Thorat (2009): "Bioremediation of Textile Dyeing Wastewater by *Cyanobacteria*", J. of Enrich Environment, Vol. 02 (04 issue), Pp.29-34. ISSN: 0974-6064
37. Kulkarni M. N., Deshmukh S. A. Sonawane A. C., Syed Aafreen E., Chaudhari R. T. and Thorat S. R. (2009): "Evaluation of Antibacterial properties of some Medicinal plants used in Khandesh region, India", J. of Bull. Agri. Sci., Vol. VI, (3rd Issue), Pp. 213-217. ISSN: 0977-4865
38. Kulkarni M. N., Dandge K. P. and Thorat S. R. (2009): "A study on Heterogeneous Photocatalytic Oxidation for Paint wastewater treatment", J. of Biotechnology and Bioinformatics, Vol. 1(2), Pp. 234-239. ISSN: 0974-9438
39. Ramnath K. Sonawane and Sanjaykumar R. Thorat (2010): "Studies on Municipal Solid waste management in Jalgaon city of Maharashtra: A case study", Bull. of Envi. Sci. Vol. XXVIII (1st Issue), Pp. 1-8 ISSN: 0971-1732,
40. Parate V. R., Thorat S. R. and Dandge K. P. (2010): "Role of food processing in securing food security" International conference proceeding on Global Food Security Concern, Reality and Remedies published by Himalaya publishing House, New Delhi. Pp. 212-220.
41. Thorat S. R., Sonawane A. C., Kulkarni M. N. and Parate V. R. (2010): "Controlling land and water degradation in Asia for food security" International conference proceeding on Global Food Security Concern, Reality and Remedies published by Himalaya publishing House, New Delhi. Pp. 253-261.
42. Thorat S. R. Sonawane A. C. and Wani P. P. (2010): "Bioremediation of Paper Mill effluent in Pilot Scale Bioreactor using *Arthrobacter Crystallopoites* and *Paecilomyces Species*". International Journal of Modern Biotechnology (IJMB) India, Vol.1 (1) Pp. 118-126. ISSN: 0975-4628
43. Ramnath K. Sonawane, Anand C. Sonawane and Sanjaykumar R. Thorat (2010): "Technology to Develop Manure from Municipal Solid Waste: Wealth from Waste", J. of Biotechnology and Bioinformatics. Vol. Vol. 1 (2) Pp. 215-221. ISSN: 0974-9438

44. Aafreen E. Syed and S. R. Thorat (2010): "Development of Bio-film on metal and polycarbonate as a sulphate reducing bacteria", J. of Pure and Applied Microbiology, Vol. 4(1), Pp.421-424. ISSN: 0973-7510
45. Sonawane Anand C. and Thorat Sanjaykumar R. (2010): "Development of a Technology for Decolorization of Textile Effluents Using Bacterial Granule" International Journal of Modern Biotechnology (IJMB) India, Vol.1 (1) Pp. 141-147. ISSN: 0975-4628
46. Chavan T.P. and S. R. Thorat (2012): Status of surface and ground water quality index of Yavatmal City, MS, India, J. of Biological and Physical Sciences, Vol. II (IV) Pp 286-288, ISSN: 2319-636X
47. Jogi R.D*, Wani P.P*. and S. R. Throat (2012): Hydrobiological Study with Water Quality Index of Nashik City Area (M.S.) India, International J. of Chem. Sci. Vol. III, Pp 37-43. ISSN: 0976-4526
48. Sheejan P. G.* Kulkarni M. N. and S. R. Thorat (2012): Study of Zooplankton of River Tapi Relation to Pollution from Bhusawal Taluka Dist. Jalgaon, MS, India, ISSN0976-4534 International J. of Environmental Sciences Vol. III (3rd issue) Pp. 317-322. ISSN: 0976-4534
49. Chavan T.P. and Sanjaykumar R Throat (2013): "Study on Physico-Chemical Properties with Coefficient and Correlation with Ground Water Quality at Yavatmal, MS, India", International Journal of Physical and Social Sciences January 2013 Volume-3, Issue-1 Pp 256-262. ISSN: 2249-5894
50. Jogi R.D., Wani P.P., Kulkarni M.N. and S.R. Thorat (2013): Study of Limno-chemistry River Godavari in Nashik with reference to Zooplankton, International J. of Research in Social Sciences, Vol.3, and Issue 1 Pp. 253-262. ISSN: 2249-2496
51. Chavan T.P., Dandge K.P. and Thorat Sanjaykumar R. (2013): Study on Hydro Biological Chemistry of Surface and Ground Water Quality in Yavatmal City, J. of Aquatic Biology Pp 63-66. ISSN: 097-4235
52. Chaudhari R. T., Deshmukh S. A., Wakode A. V., Kulkarni M. N. and S.R. Thorat (2013): Impact of Sant Muktabai Festival on Water Qualities in Stretch of River Tapi at Muktainagar, MS, India, International Journal of Physical and Social Sciences, Vol.3, Issue 4, Pp:446-454 ISSN:2249-5894
53. Chavan T. P., Dandge K.P. and S. R. Thorat (2013): Study on Microbial Isolates for Detoxification of Heavy Metals from Industrial Sludge. J. Aqua. Biology Vol. 1 Pp. 65-68. ISSN: 0971-4235.
54. S.R. Thorat and K. P. Dandge (2013): Study on Selective Tree Species for Carbon Reduction in North Maharashtra University Campus, Jalgaon (M.S.), India. International J. of Research in Social Sciences, Vol.3, Issue 4, Pp. 111-122. ISSN: 2249-2496.

55. Sheejan P. G. and S. R. Thorat (2013): Impact of Phytoplanktonic Community in River Waghur Relation to Pollution of Khandesh Region. International Journal on Agricultural Sciences Vol. IV (3-4) Pp. 107-116. ISSN: 0976-450X.
56. Pathak P.V., Ingle S. T. and S. R. Thorat (2015): Enhanced Removal of Turbidity in Thermal Power Plant. International Journal of Innovative Research in Technology IJIRT 142585 Vol. 2 Issue 4 Pp.89-92. ISSN:2349-6002.
57. Chavan T. P., Harshad R. Kakade and S. R. Thorat (2015): Photo-Catalytic Technological Aspect Used in Industrial Wastewater Treatment Process. International Journal in Management and Social Sciences. Vol. 03 Issue-02 Pp 473-477. ISSN: 2321-1784.
58. Chaudhari R. T., Harshad R. Kakade and S. R. Thorat (2015): Effect of Cadmium Chloride on the Biochemical Characteristics of Fresh Water Fish, *Cyprinus Carpio*. International Journal in Management and Social Sciences. Vol. 03 Issue-03 Pp. 85-89. ISSN: 2321-1784.
59. Chavan T. P., Harshad R. Kakade and S. R. Thorat (2015): Assessment of Photo-oxidation Process using Different Catalyst in Textile Effluent. International Journal in Management and Social Sciences. Vol. 03 Issue-03 Pp. 220-229. ISSN: 2321-1784.
60. Harshad R. Kakade and S.R. Thorat (2015): Impact of Wastewater on Microbiota of the Plant *Solanum Melongena* in Raver Area of Khandesh Region. IJIRT 142640 International Journal of Innovative Research in Technology. Volume 2 Issue 5 Pp.121-125. ISSN: 2349-6002
61. Sheejan P. G. and S. R. Thorat (2016): Studies on Phytoplankton of River Waghur in Jalgaon in Area of Khandesh Region, (MS) India International Journal in Management and Social Science Vol-4 Issue-07 Pp. 38-43. ISSN: 2321-1784.
62. Harshad R. Kakade and S. R. Thorat (2017): Studies on Nerium Oleander Leaf Extract for Antimicrobial Activity from Soil Micro-fauna in Faizpur Area of North Maharashtra Region (M.S.) India. Indian J. of Applied Research Vol. 7, issue-5 Pp. 446-448. ISSN 2249-555X Impact Factor: 4.894.
63. Ganpat B. More, Harshad R. Kakade and S. R. Thorat (2017): Impact of Textile and Composite Industrial Wastewater on Fresh Water Fish, *Channa Gachua*: A Comparative Study, International Research Journal of Environmental Sciences., Vol 6(7) 41-46. ISSN 2319-1414
64. Harshad R. Kakade and S. R. Thorat., (2017): Assessment of wastewater from some selected locations in an around Faizpur area of Khandesh region, M.S., India. International Research Journal of Environmental Sciences., Vol 6(7) 23-28. ISSN 2319-1414
65. Ganpat B. More and Sanjaykumar R. Thorat (2017): Performance Evaluation of Membrane Bioreactor Technology for Treatment of Wastewater: A Review, Global Journal of Engineering Science and Research, Vol 4 (11) Pp 74-82. ISSN 2348 -8034. Impact Factor – 4.022

66. Tukaram P. Chavan* Abhijit S. Thorat** and Sanjaykumar R. Thorat (2018): Ecological Study on the Phytoplankton's of River Waghur in Jalgaon District of Khandesh Region. A Multidisciplinary International Referred Journal Edu World • ISSN: 2319-7129 • Volume IX, Number 1. Pp. 27-34.
67. Harshad R. Kakade, Abhijit S. Thorat and Sanjaykumar R Throat (2018): "Impact of Irrigation with Sewage Water on Heavy Metal Content in Soil and Crops of Raver Area in Khandesh Region of Maharashtra, India", Asian J. Appl. Res. January 2018 4(1). Pp. 11-14
68. Chavan Tukaram P., Harshad R. Kakade, Abhijit S. Thorat and Thorat S. R. (2018): The Status of Sediment and Heavy Metal Pollution in Waghur River of Jalgaon in Khandesh Area of Maharashtra, India, International Journal on Environmental Sciences 9 (1): 9-14, April Special Issue 2018, ISSN No.: 0976-4534; UGC Approved Journal No. 7783. Impact Factor 3.06
69. Tukaram P. Chavan* Abhijit S. Thorat** and Sanjaykumar R. Thorat (2018): Assessment of Zooplanktons Population in Girna River of Jalgaon District in North Maharashtra Region. A Multidisciplinary International Referred Journal Edu World • ISSN: 2319-7129 • Volume IX, Number 1. Pp. 321-330.
70. Ganpat B. More, Shridhar K. Jadhav and Sanjaykumar R. Thorat (2019): Development of a Novel Submerged Membrane Bioreactor (SMBR) for Treatment of Textile Wastewater. International Journal of Research in Advent Technology, Vol.7, No.4, Pp.35-46 E-ISSN: 2321-9637. DOI: 10.32622/ijrat.74201906 Impact Factor: 1.2
71. Ganpat B. More, Kailas P. Dandge and Sanjaykumar R. Thorat (2019): Spatial Distribution Analysis of Surface Water Quality Index Using Remote Sensing and GIS: A Case Study of Erandol (Maharashtra, India). International Journal of Advanced Remote Sensing and GIS, Vol. 8, Issue 1, pp. 3030-3046 ISSN 2320-0243. DOI: 10.23953/cloud.ijarsg.417 Impact Factor: 1.97.
72. Chavan T. P., Thorat A. S. and Thorat S. R. (2021): Status of Water Quality Index in Harsul Lake at Aurangabad; A Case Study. Aayushi International Interdisciplinary Research Journal (AIIRJ), Vol. 8(1) I.F. 7.149 ISSN: 2349-638x. Pp. 33-39.
73. Rakshanda M. Ingale and Sanjaykumar R. Thorat (2021): Effect of bacterial strains on reduction of physico chemical characteristics in textile industrial effluent treatment system. Aayushi International Interdisciplinary Research Journal (AIIRJ), Vol. 8(1). Pp. 14-18. ISSN: 2349-638x Impact Factor 7.149.
74. Ganpat B. More and Sanjaykumar R. Thorat (2021): Enhance Removal of organic pollutants and reactive Dye in Polyether sulfone Submerged Membrane Bioreactor (PES-SMBR) for Textile Wastewater Treatment J. of Current World Environment, Vol. 16 (1) ISSN: 0973-4929, Online Pp. 329-341. ISSN: 2320-8031. DOI: 10.5281/zenodo.1048830 Impact Factor: 4.022.