

## CV of Prof. (Dr.) Prakash D. Raut



### 1. Personal Details :

- 1) **Name** : **Dr. Prakash D. Raut**
- 2) **Date of Birth** : 16th July, 1960
- 3) **Address (Resi.)** : 1897/B, E ward, Aishwarya Residency, 10<sup>th</sup> lane, Rajarampuri, Kolhapur – 416008.
- 4) **Address (Office)** : Department of Environmental Science, Shivaji University, Kolhapur – 416 004.
- 5) **Tel. No.** : Res.: 91231- 252 9501  
Off. : 91231- 260 9304 / 9333  
Mobile: 09421106551
- 6) **E-mail Address** : [drpdraut@yahoo.co.in](mailto:drpdraut@yahoo.co.in)  
[pdr\\_env@unishivaji.ac.in](mailto:pdr_env@unishivaji.ac.in)
- 7) **Designation** : Professor and Head,  
I/c Dean, Interdisciplinary Studies, Shivaji University,  
Kolhapur.
- 8) **Department** : Department of Environmental Science

### 2. Academic Details:

Examination passed	Subject/ Subjects with specialization	Year of Passing	Percentage of Marks	Name of the Board/ University awarding Certificate/ Degree
B.Sc.	Zoology	1980	70.84 %	Shivaji University, Kop.
M.Sc.	Zoology	1982	67.84 %	Shivaji University, Kop.

Ph.D. Title of Ph.D. thesis:	Zoology Endocrinological approach to male fertility in bonnet monkey, <i>Macaca radiata</i> : Testosterone enanthate	1993	-----	Mumbai University, Mumbai.
D. H. Ed.	Education	1984	56.84 %	Shivaji University, Kop.
B. Ed.	Education	1989	56.1 %	Shivaji University, Kop.
M. Ed.	Education	1996	51.25 %	Mumbai University, Mumbai.
Diploma in Information Technology	Computers	1999	85.00 %	CDAC, Pune.
P.G. diploma in Environment & Ecology	Environment & Ecology	2001	70.55 %	Inst. of Environment & Ecology, New Delhi.
Diploma in Education Management	Education Management	2004	74.00 %	SNDT Women's University, Mumbai.
Biodiversity Leadership Course	Biodiversity	2007	Qualified	Bombay Natural History Society
Diploma in Remote Sensing and GIS	Remote Sensing and GIS	2008	Completed	Edu SAT, DST, New Delhi

**3. Area of Specialization:** Environmental Ecology, Environmental Toxicology, Environmental Biotechnology

**4. Teaching Experience:**

Govt. / Non Govt.	Name of College / Univ.	Designation	Jr/ Sr/ PG	From - To	No. of Years
Non Govt.	Annasaheb Waghire College of Arts, Commerce and Science, Otur ( Dist. Pune )	Lecturer	Senior	Dec 1982 To Nov 1983	1 year
Non Govt.	New Arts, Commerce and Science College, Ahmednagar.	Lecturer	Senior	Nov 1983 To June 1984	8 months
Non Govt.	Shree Pancham Khemraj Mahavidyalaya, Savantwadi	Lecturer	Senior	July 1984 To June 1985	1 Year

Govt.	Elphinstone College, Mumbai	Lecturer	Junior and C.H.B. Senior	12 <sup>th</sup> July 1985 to 27 <sup>th</sup> Aug 1997	12 Years
Govt.	The Institute of Science, Mumbai	Sr. Lecturer	Senior P. G.	28 <sup>th</sup> Aug 1997 to 31 <sup>st</sup> May 2005	9 Years
Univ-ersity	Shivaji University, Kolhapur, Maharashtra	Reader Selected	P.G.	1 <sup>st</sup> June 2005 to 30 <sup>th</sup> Dec 2012	7 years
Univ-ersity	Shivaji University, Kolhapur, Maharashtra	Professor Selected	P.G.	1 <sup>st</sup> January 2013 onwards	8 years

**Faculty Development Programs attended:**

<b>Program</b>	<b>Year</b>	<b>Duration</b>	<b>Subject</b>	<b>Place</b>
<b>Orientation Course</b>	2000	21 days	General Orientation	Mumbai University
<b>Refresher Course</b>	1999	21 days	Zoology	Institute of Science, Mumbai
<b>Ph.D.</b>	1990 - 93	4 Years	Zoology ( Endocrinology )	Institute of Science, Mumbai
<b>Research Training</b>	2001	15 days UNU-UNESCO International Course	Mangroves Biodiversity	CAS in Marine Biology, Portonova (TN)
	2004	1st June to 31st June, 2004	Animal Cell Culture	National Institute of Virology, Pune
	2013	April 2013	Short term course in study in Sustainable Development	Rio +20 India Program IARC Education and Outreach division

	2014	09 <sup>th</sup> to 13 <sup>th</sup> June 2014	“Isotope Tracer Techniques for Water Resources Development and Management”	Isotope Hydrology Division, Center for Water Resource Development and Management (CWRDM), Kunnamangalam, Kozikode, Kerala. Sponsored by DST.
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## 5. Research Experience / Training:

### Research Experience:

- i) 3 years as Ph. D. Scholar.
- ii) 29 years independent research.

### Ph. D. Thesis:

“Endocrinological approach to male fertility in bonnet monkey, *Macaca radiata*: Testosterone enanthate.”

## 4. Ph. D., Students:

Ph. D. Awarded: 14  
Ph. D. Thesis submitted: 4  
Ph. D. registered: 4

### Ph. D. Awarded: 14

Sr. No.	Name of the student regd.	Regd. For M. Sc. / M. Phil / Ph.D.	Date of Registration	Year of award of Degree	Branch and Brief title of research	Remarks
1.	Ms. Vaidehi Mayekar	Ph. D.	27/04/04	2007	(Zoology) Effect of nickel on the neuroendocrine physiology of the female crab, <i>Scylla serrata</i> (Forsk.).	Awarded
2.	Mr. Manoj Khushwah	Ph. D.	23/02/04	2007	(Zoology) Studies on the Methyl farnesoate induced biophysiochemical changes in various tissues of the crab, <i>Scylla serrata</i> (Forsk.).	Awarded
3.	Mr. V. J. Kulkarni	Ph. D.	05/05/04	2008	(Zoology) Stress effects of cadmium metal ions and influence of serotonin on the endocrine physiology of the blood clam, <i>Cardiata antiquata</i> .	Awarded

4.	Mr. V. V. Jadhav	Ph. D	1/01/2007	2013	<b>(Environmental Science)</b> Toxicity study and risk assessment of Bisphenol A.	Awarded
5.	Ms. Bharati S. Wali	Ph. D.	1/07/2007	2013	<b>(Zoology)</b> Physiological evaluation of female workers in relation to work and stresses in Tobacco Industry.	Awarded
6.	Ms. Sonal G. Chonde	Ph. D.	1/07/2007	2013	<b>(Environmental Science)</b> Studies on degradability of polyamide based plastic waste by Biological methods.	Awarded
7.	Ms. Yojana Y. Patil	Ph. D.	1/07/2008	2013	<b>(Environmental Science)</b> Studies on demographic surveillance and water resources utilization in and around Jaitapur Tal Rajapur, Dist Ratnagiri	Awarded
8.	Mrs. Priya P. Loni	Ph. D.	1/07/2009	2015	<b>(Environmental Science)</b> Evaluation of ground water quality in Karvir taluka, Dist. Kolhapur.	Awarded
9.	Mr. V. N. Patil	Ph. D	1/7/2009	2015	<b>(Environmental Science)</b> Studies on Toxicity of Organophosphorus and Neonicotinoid pesticides in Invertebrate animal model.	Awarded
10.	Mrs. Pallavi R. Bhosale	Ph. D.	1/07/12	2017	<b>(Environmental Science)</b> Studies on extraction of sugarcane wax from press mud and application of pressmud as compost in agriculture.	Awarded
11.	Ms. Rachana R. Ingawale	Ph. D.	1/07/12	2018	<b>(Environmental Science)</b> Studies on the potential of soil carbon sequestration in agro-ecosystem by using improved agricultural practices.	Awarded
12.	Mr. Ganesh H. Kadam	Ph. D.	1/07/12	-----	<b>(Environmental Science)</b> Study of silver nanoparticles (AgNP) in the crab, <i>Paratelphusa jacquemontii</i>	Awarded
13.	Mrs. Manjusha R. Jadhav	Ph. D.	1/07/12	-----	<b>(Environmental Science)</b> Evaluation of veterinary drug residues in major foods of animal origin	Awarded

14	Mr. Nandkishor B. Gaikwad	Ph. D.	1/07/12	-----	<b>(Environmental Science)</b> Geochemical characterization of major and trace elements in groundwater, soil and mudflats around Malvan coast, district Sindhudurg.	Awarded
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**Ph. D. Thesis submitted: 4**

Sr. No.	Name of the student regd.	Regd. For M. Sc. / M. Phil / Ph.D.	Date of Registration	Year of award of Degree	Branch and Brief title of research	Remarks
1.	Mr. C. A. Chandagade	Ph. D	1/07/2006	----	<b>(Environmental Science)</b> Bioremediation and toxicological studies of effluents from textile industry.	Submitted
2.	Mr. Shantaram D. Surve	Ph. D.	1/07/2008	----	<b>(Environmental Science)</b> GIS based studies on Ecology of Gaur ( <i>Bos gauras</i> ) with special reference to habitat utilization in Radhanagari WLS, Maharashtra, India.	Submitted
3.	Mrs. Rasiya C. Padalkar	Ph. D.	1/07/12	-----	<b>(Environmental Science)</b> Studies on the potential of soil carbon sequestration in agro-ecosystem by using improved agricultural practices.	Submitted
4	Mr. Amol A. Chougule	Ph. D	1/07/15	-----	<b>(Environmental Science)</b> Pressmud and its combination with organic food waste: compost for agriculture.	Submitted Viva awaited

**Ph. D. registered: 4**

Sr. No.	Name of the student regd.	Regd. For M. Sc. / M. Phil / Ph.D.	Date of Registration	Year of award of Degree	Branch and Brief title of research	Remarks
1.	Mr. Chetan S. Bhosale	Ph. D	1/07/2017	-----	<b>(Environmental Science)</b> Air quality monitoring, emission inventory and source apportionment study of Kolhapur city, Maharashtra".	Working

2.	Ms. Aarti Parit	Ph. D	1/07/2018	-----	<b>(Environmental Science)</b> Studies on degradability of Polypropylene based plastic by microbial consortia	Working
3.	Ms. Priya Vasagadekar	Ph. D	1/07/2018	-----	<b>(Environmental Science)</b> An empirical analysis of carbon footprint and carbon sequestration in urban ecosystem: a case study of Kolhapur city.	Working
4.	Ms. Nirmala Pokharnikar	Ph. D	1/07/2018	-----	<b>(Environmental Science)</b> Development of a novel microbial consortium for degradation of solid waste	Working

**4. M. Phil. Students:** Completed 06, Working 01

Sr. No.	Name of the student regd.	Regd. For M. Sc. / M. Phil / Ph.D.	Date of Registration	Year of award of Degree	Branch and Brief title of research	Remarks
1.	Ms. S. D. Diwan	M. Phil	1/07/06	2008	<b>(Environmental Science)</b> Environmental impact of Ganesh idol immersion: a case study of Kolhapur.	Awarded
2.	Ms. J. R. Kambale	M. Phil	1/07/06	2008	(Environmental Science) Studies on toxicological impact of tannery waste.	Awarded
3.	Mr. J.P. Kashid	M. Phil	1/07/06	2009	<b>(Environmental Science)</b> Studies on the physicochemical parameters of inshore waters at Malvan, Dist. Sindhudurg.	Awarded
4.	Ms. A. S. Injal	M. Phil	1/06 /06	2008	<b>(Zoology)</b> Lead (Pb) toxicity studies in the fresh water bivalve, <i>Lamellidens marginalis</i> .	Awarded
5.	Ms. P. S. Bavalekar	M. Phil	1/07/06	2008	<b>(Zoology)</b> Impact of Lead (Pb) on reproduction of fresh water bivalve, <i>Lamellidans marginalis</i> .	Awarded
6.	Ms. Deepali D. Biraje	M. Phil	1/07/2009	2012	<b>(Environmental Science)</b> Studies on assessment of Physio-chemical and microbial characteristics of Municipal Solid Waste (MSW) of Kolhapur and Sangli city.	Awarded

7.	Mr. Anil R. Dhas	M. Phil.	1/07/2012	-----	<b>(Environmental Science)</b> Studies on impact of dry sugarcane leaf mulching on soil quality in Karveer taluka of Kolhapur district.	Working
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**4. M. Tech. Students:** Completed 23

Sr. No.	Name of the student regd.	Regd. For M. Sc. / M. Phil / Ph.D.	Date of Registration	Year of award of Degree	Branch and Brief title of research	Remarks
1.	Mr. J.S. Patil	M. Tech.	-----	2008	<b>(Environmental Science and Technology)</b> Application of root zone technology for dairy wastewater treatment.	Awarded
2.	Ms. Mansi Pawar	M. Tech.	-----	2010	<b>(Environmental Science and Technology)</b> Design and maintenance of constructed wetlands for textile industries.	Awarded
3.	Mr. Yadav Subhash	M. Tech	----	2011	<b>(Environmental Science and Technology)</b> Performance analysis of Surface constructed wetland with water Hycianth	Awarded
4.	Mr. Mansingh Patil	M. Tech.	-----	2014	Removal of phosphorus from sewage effluent by adsorption on Laterite	Awarded
5.	Ms. Maske Savita Uttam	M. Tech	-----	2014	Performance evaluation of vegetated vermin-filtration system for treatment of domestic wastewater	Awarded
6.	Mr. Salokhe Sushil Ramesh	M. Tech.	1/07/2012	2017	<b>(Environmental Science and Technology)</b> “Treatment of kietchen and bathroom waste water by upflow anaerobic sludge blanket (UASB) reactor”.	Awarded
7.	Mr. Kulkarni Mahesh M.	M. Tech.	July 2011	2014	<b>(Environmental Science and Technology)</b> Treatment of pharmaceutical wastewater by Fenton’s reaction	Awarded
8.	Ms. Gaikwad S. L.	M. Tech.	July 2013	2015	<b>(Environmental Science and Technology)</b>	Awarded



					Removal of heavy metals from industrial wastewater using bioabsorbent	
9.	Ms. Teli P.M.	M. Tech.	July 2012	2014	<b>(Environmental Science and Technology)</b> A model based optimization of an anaerobic treatment for industrial wastewater treatment	Awarded
10.	Ms. Patil A.D.	M. Tech.	July 2012	2014	<b>(Environmental Science and Technology)</b> Treatment of textile wastewater by Fenton's process as advanced oxidation process	Awarded
11.	Ms. Shinde M.P.	M. Tech.	July 2012	2014	<b>(Environmental Science and Technology)</b> Studies on simultaneous removal of Hexavalent Cr and Nitrate from simulated wastewater using selective filter media	Awarded
12.	Govilkar Prajakta	M. Tech	July 2012	2015	Use of plastic in road construction.	Awarded
13.	Ms. Rajaram Supriya S.	M. Tech	July 2012	2015	<b>(Environmental Science and Technology)</b> Optimization of anaerobic digester of Sugar industry.	Awarded
14.	Miss. Sanmati C. Bedage	M. Tech	July 2012	2015	<b>(Environmental Science and Technology)</b> Performance Evaluation of Whey Effluent by Upflow Anaerobic Sludge Fixed –Film Bioreactor	Awarded
15.	Ms. Shailaja Kose	M. Tech	2013	2015	<b>(Environmental Science and Technology)</b> Studies on heavy metal analysis of the leachate generated from composting of municipal solid waste in pilot scale plant	Awarded
16.	Ms. Chetana	M. Tech	2013	2015	Water distribution system of Nagpur city	Awarded
17.	Miss. Ashwini Thakur	M. Tech	2013	2016	Water distribution system of Nagpur city	Awarded
18.	Mr. Pratik Nagesh	M. Tech	2014	2016	<b>(Environmental Science and Technology)</b> Bio-augmentation	Awarded

	Deshpande				studies to enhance soluble cod in biogas reactor.	
19.	Mr. Digambar Chavan	M. Tech	2014	2016	<b>(Environmental Science and Technology)</b> Synergetic impacts of Climate Change and Environmental pollution on Mumbai port	Awarded
20.	Mr. Patil V. V.	M. Tech	2014	2014	<b>(Environmental Science and Technology)</b> “Adsorption and recovery of heavy metals from Industrial waste water by using coal fly ash as a low cost absorbant”.	Awarded
21.	Mr. Lengare V. V.	M. Tech	2014	2016	<b>(Environmental Science and Technology)</b> Applicability of real time control system for water quality.	Awarded
22.	Mr. Padalkar Amol	M. Tech	2014	2016	<b>(Environmental Science and Technology)</b> Chemical and elemental profiling of soil samples using different analytical techniques.	Awarded
23.	Ms. Hillary M. Zodape	M. Tech	2015	2016	<b>(Environmental Science and Technology)</b> Study of Mosquito Attractant Emission from Various non-Hazardous Sources and Its Optimization	Awarded
24	Mr. Kokare	M. Tech	2016	2017	<b>(Environmental Science and Technology)</b>	Awarded
25	Ms. Shirke Utkarsha S.	M. Tech	2017	2019	<b>(Environmental Science and Technology)</b> Assessment of water quality: A case study of Rajaram lake, Shivaji University, Kolhapur.	Awarded

4. Ph. D., M. Phil., M. Tech. and M.Sc. by Research Awarded: 01

Sr. No.	Name of the student regd.	Regd. For M. Sc. / M. Phil / Ph.D.	Date of Registration	Year of award of Degree	Branch and Brief title of research	Remarks
1.	Ms.Vaidehi Mayekar	M. Sc. ( PPR )	18/01/99	2003	(Zoology) Some aspects of endocrine physiology of the crab, <i>Scylla serrata</i> (Forskal)	Awarded

6. Research Publications: 89

Sr. No	Name of Author/ s	Year of publica tion	Title of the Paper	Name of Journals	ISSN No.	Vol.	Page No.	Impa ct facto r
1.	Raut P. D. and Bhiwgade D. A.	1997	Serum biochemistry of male bonnet monkey, <i>Macaca radiata</i> treated with testosterone enanthate	<i>Bioresearch Journal,</i>	0895-4356	1 (2)	16-21	---
2.	Raut P. D. and Bhiwgade D. A	1998	Effect of testosterone enanthate on a few testicular enzymes in bonnet monkey, <i>Macaca radiate</i>	<i>Trends in Life Sciences,</i>	2231-6345	13 (1)	33-36	---
3.	Avari K.M., Bhiwgade D. A. and Raut P. D.	1998	Effect of DMPA and TE on anterior pituitary and accessory glands of male albino rats: Ultrastructural and biochemical approach	<i>Trends in Life Sciences</i>	2231-6345	13 (2)	59-69	---
4.	Avari K.M., Raut P. D., Kadam V.K. and Bhiwgade D. A	1999	“Effect of Depot Medroxyprogesterone acetate + Testosterone enanthate on the histology of the testis and the reproductive tract of the adult male albino rats”	<i>Trends in Life Sciences</i>	2231-6345	14 (1)	13-22	---
5.	Borkar Manoj, Mantri U.U., Avari K. M., Raut P. D. and	2000	“Cytoarchitecture of the adenohypophyseal folliculostellate cell of male flat headed bat <i>Tylonycteris</i>	<i>U.P. Journal of Zoology</i>	2278-8816	20 (3)	209-212	---

	Bhiwgade D. A.		<i>pachypus</i> (TEMMINCK)",					
6.	<b>Raut P. D.</b> and Bhiwgade D. A	2001	"Ultrastructural observations of gonadotroph cells and hormonal studies after testosterone enanthate treatment in male bonnet monkey, <i>Macaca radiata</i>	<i>Biochem. Cell. Arch.</i>	0972-5075	1(1)	35-40	---
7.	Bhiwgade D. A., Vaishali Kadam and <b>Raut P. D</b>	2001	Study of clinical biochemistry in DMPA + TE: treated male albino rat.	<i>Biochem. Cell. Arch.</i>	0972-5075	1, (1, 2)	61-69	---
8.	<b>Raut P. D.</b> and Bhiwgade D. A.,	2003	"Biochemical observations on the prostrate and seminal vesicle of testosterone enanthate treated bonnet monkey, <i>Macaca radiata</i> (Geoffroy)" <i>Biochem.</i>	<i>Biochem. Cell Arch.</i>	0972-5075	3 (1,2)	17-22	---
9.	Pawar S. S., <b>Raut P. D.</b> , Tope J. R. and Venkatesh S.	2003	" Effect of 5 HT treatment on the carbohydrate metabolism of the crab, <i>Scylla serrata</i> ( Forskal ) "	<i>Bior Research Journal</i>	0971-9660	4 (2)	1-7	---
10	DA Bhiwgade <b>P.D. Raut</b> , Kadam V and Bellare AV	1998	DMPA + TE Endocrinological approach to male fertility in rats	<i>Bull. Of pure and applied sci.</i>	0970-0765	V17A (2)	69-81	---
11	Mayekar Vaidehi, Pawar S. S. and <b>Raut P. D.</b>	2003	Bioaccumulation studies in different tissues of the crab, <i>Scylla serrata</i> ( Forskal ) exposed to cadmium "	<i>BioResearch Journal,</i>	0979-660	4 (2)	8-7	---
12	Chandagade C. A., Manoj Kushwah and <b>Raut P. D.</b>	2007	"Textile effluents and its impact on urban ecosystem", in the proceedings of International Conference on "Urban Planning and Environment: Strategies and Challenges"	<i>Macmillan Advance Research Series.</i>	10-230-630669	1	270-273	---
13	Injal A. S. and <b>Raut P. D.</b> ,	2008	" Effect of lead and calcium chelation therapy on behaviour of fresh water	<i>Journal of Ecotoxicology.</i>	0971-0965	20 (3)	245-249	---

			bivalve, <i>Lamellidens marginalis</i> ”					
14	Kashid J. P., Patil A. K., Samant J. S. and <b>Raut P. D.</b>	2009	“Seasonal variation in some heavy metals of inshore waters of Malvan Maharashtra.”	<i>Nature, Environment and Pollution Control Technology.</i>	0972-6268	8 (2)	261-266	---
15	Injal A. S. and <b>Raut P. D.</b>	2009	“Remedial effect of Calcium on Lead induced alterations, in proteins and phosphatase activities in gill and mantle of freshwater bivalve, <i>Lamellidens marginalis</i> ”	<i>Journal of Ecophysiology and Occupational Health</i>	0972-4397	9	77-84	---
16	Kamble J. R., Jadhav V. V., Chandagade C. A. and <b>Raut P. D.</b>	2009	‘ Alterations in the enzyme activities in <i>Lamellidens marginalis</i> exposed to tannery wastewater”	<i>Journal of Aquatic Biology,</i>	1864-7790	24 (1)	131-138	---
17	Injal A. S. and <b>Raut P. D.</b>	2010	Bioaccumulation of lead ( Pb ) and remediation by calcium chelation therapy in the gills and mantle of fresh water bivalve, <i>Lamellidens marginalis</i> ”	<i>Journal of Ecophysiology and Occupational Health</i>	0972-4397	10 (1,2)	21-26	---
18	Pandian M., Prabhu Nilima, Pawar S. S. and <b>P. D. Raut,</b> 2010	2010	“ Quantification of Histamine Content in Tuna ( <i>Thunnus species</i> ) During Processing”	<i>Bioresources for Food Security and Rural Livelihood,</i>	9380-4281-97	1	367-372	---
19	Meshram Leena N., Pawar S. S. and <b>Raut P. D.</b>	2010	“Study on the occurrence of Human Pathogenic Bacteria in <i>Trichiurus Spp.</i> During frozen storage”	<i>Bioresources for Food Security and Rural Livelihood,</i>	9380-4281-97	2	257-263	---
20	Patil V. N., Patil A.K., Samant J.	2010	“Assessment of the status and ecological impact of “Rab”	<i>Journal of Advances in</i>	0971-9563	13	P. 20-29.	

	S. and <b>Raut P. D.</b>		burning (cultivation) in some villages of Shahuwadi tehsil of Kolhapur District”	<i>Science and Technology.</i>		(1)		---
21	Y. Y. Patil and <b>P. D. Raut,</b>	2010	“Studies on the status of open wells in Kolhapur city”	<i>Journal of Advances in Science and Technology.</i>	0971-9563	13(1)	P. 165-170.	---
22	P. P. Loni, A. K. Patil, and <b>P. D. Raut,</b>	2010	“Studies on groundwater quality from different wards of Kolhapur city”	<i>Journal of Advances in Science and Technology.</i>	0971-9563	13(1)	p. p. 193-202.	---
23	D. D. Biraje, A. K. Patil and <b>P. D. Raut</b>	2010	“Studies on status of solid waste management of Kolhapur city”	<i>Journal of Advances in Science and Technology.</i>	0971-9563	13(1)	p. p. 130-136.	---
24	Sartape Ashish S., <b>Raut Prakash D.,</b> Kolekar Sanjay S	2010	Efficient Adsorption of Chromium (VI) Ions from Aqueous Solution onto a Low-cost Adsorbent Developed from <i>Limonia acidissima</i> ( Wood Apple) Shell,	<i>Adsorption Science &amp; Technology,</i>	0263-6174	28(6)	547-560.	0.559
25	Lad R. J. , Patil V. N. <b>Raut P. D.,</b>	2011	‘Study of Noise pollution during Deepawali festival in Kolhapur city of Maharashtra, India’	<i>Indian Stream Research Journal.</i>	2230-7850	Vol. I	,pp. 82-83 ,	0.2105
26	Rao T. B., Chonde S. G. Bhosale P. R. , Jadhav A. S. and <b>Raut P. D</b>	2011	Environmental Audit of Sugar Factory: A case study of Kumbhi Kasari Sugar Factory, Kuditre , Kolhapur.	<i>Universal Journal of Environmental Research and Technology,</i>	2249-0256	Vol 1,	51-57.	---
27	Patil Shilpa G., Chonde Sonal Goroba, Jadhav Aasawari Suhas, <b>Prakash D. Raut</b>	2011	Study of physicochemical and biological characteristics of lakes from Shivaji University Campus, Kolhapur,	<i>Advances in Applied Science Research</i>	0976-8610	2 (6)	505-519	---

			Maharashtra					
28	Rao T. B., Chonde S. G. Bhosale P. R. , Jadhav A. S. and <b>Raut P. D.,</b>	2012	Environmental Audit of Distillery Factory : A case study of Kumbhi Kasari Distillery Factory, Kuditre , Kolhapur,	<i>Journal of Nature, Environment and pollution Technology , 2012</i>	0972- 6268	Vol. 11, Issue. 1,	141- 145	---
29	Yadav S.B., Jadhav A.S., Chonde S.G. and <b>Raut P.D.</b>	2011	Performance evaluation of surface flow constructed wetland system by using <i>Eichhornia crassipes</i> for wastewater treatment in an institutional complex.	<i>Universal Journal of Environment al Research and Technology,</i>	2249- 0256	Vol. 1, Issue 4	435- 441	---
30	Patil Trupti S., Chonde S. G. Jadhav A. S. and <b>Raut P. D.</b>	2012	An Analysis of Energy Consumption pattern in Shivaji University Campus, Kolhapur, Maharashtra.	<i>Indian Stream Research Journal.</i>	2230- 7850	Vol.1 ,	pp.1- 4	0.2105
31	Darure M. V., Chonde S.G., Bhosale P.R. and <b>Raut P.D.</b>	2012	Effect of residual concentration of Endosulfan on the nitrogenase enzyme activity in <i>Arachis hypogea</i>	<i>Annals of Biological Research</i>	0976- 1233	3 (1)	192- 195	---
32	Patil Shilpa G., Chonde Sonal G., Jadhav Aasawari S. and <b>Raut Prakash D.</b>	2012	Impact of Physico-Chemical Characteristics of Shivaji University lakes  on Phytoplankton Communities, Kolhapur, India	<i>Research Journal of Recent Sciences</i>	2277- 2502	Vol. 1(2),	56- 60,	---
33	Mangale Sapana M., Chonde Sonal G. and <b>Raut P. D.</b>	2012	Use of <i>Moringa Oleifera</i> (Drumstick) seed as Natural Absorbent and an Antimicrobial agent for Ground water Treatment	<i>Research Journal of Recent Sciences</i>	2277- 2502	Vol. 1(3),	31- 40,	---
34	Mangale S. M., Chonde S. G., Jadhav A. S., and <b>Raut P. D.</b>	2012,	Study of <i>Moringa oleifera</i> (Drumstick) seed as natural Absorbent and Antimicrobial agent for River water treatment	<i>J. Nat. Prod. Plant Resource.</i>	2231 - 3184	2 (1)	89- 100	---

35	Jadhav V.V., Chandgade C.A., Patil A. K. and <b>Raut P. D.</b>	2012	Genotoxicity of Bisphenol A on root meristem cells of <i>Allium cepa</i> : a cytogenetic approach ”	<i>Asian Journal of Water, Environment and Pollution</i>	0972-9860	9. No. 1	39-43	0.2
36	Chonde Sonal G., Chonde Sachin G., Bhosale Pallavi R. Nakade D. B. and <b>Raut P. D.</b>	2012	Studies on degradation of synthetic polymer Nylon 6 by fungus <i>Trametes versicolor</i> NCIM 1086	<i>International Journal of Environmental Sciences</i>	0976 - 44	Vol. 2, No. 3	2435-2442	0.1
37	Chonde Sonal G., Chonde Sachin G., Bhosale Pallavi R. and <b>Raut P. D.</b>	2012	Studies on degradation of synthetic polymer Nylon 6 by lignolytic fungus <i>Phanerochaete Chrysosporium</i> NCIM 1073	<i>Journal of Environmental Research and Development</i>	0973-6921	Vol. 6, No. 3A	709-714	0.157
38	Chonde SG, Chonde Sachin G Raut PD	2013	Studies on degradation of synthetic polymer Nylon 6 and nylon 6,6 by <i>P. aeruginosa</i> NCIM 2242	<i>Int.J of Emerging techno. In Computational and app. sciences</i>	2279-0055	V4(4)	362-369	---
39	Bhosale P. R., Chonde S. G. and <b>Raut P. D.</b>	2012	Studies on extraction of sugarcane wax from press mud of sugar factories from Kolhapur district, Maharashtra	<i>Journal of Environmental Research and Development</i>	0973-6921	Vol. 6, No. 3A	715-720	0.157
40	Loni P. P., <b>Raut P. D.</b>	2012	Studies on the Groundwater Quality from Six Villages of Hatkanangale Taluka, District Kolhapur.	<i>Int. J. of Applied Sciences and Engineering Research</i>	2277-9442	Vol. 1, No. 2	224-231	---
41	Patil Y.Y., Chougankar M.P. and Raut P.D.	2012	Demographic study around proposed Jaitapur nuclear power plant, Maharashtra, India : a case study	<i>Journal of Environmental Research And Development</i>	0973-6921	<b>Vol. 6 No. 3A</b>	916-922	---
42	Manglekar S. B., Jadhav A. S., <b>Raut P. D.</b>	2012	Study of noise pollution in Kolhapur city, Maharashtra, India	<i>Universal Journal of Environment</i>	2249-0256	Vol. 2, Issue	65-69	---



				<i>al Research and Technology,</i>		1		
43	Bhosale P. R., Chonde S. G. , Nakade D.B. and <b>Raut P. D.</b>	2012	Studies on Physico-Chemical characteristics of waxed and dewaxed pressmud and its effect on water holding capacity of soil	<i>ISCA Journal of Biological Sciences</i>	0976-8610	Vol. 1 (1)	35-41	---
44	Sartape A. Mandhare A., Salvi P., Pawar D., <b>Raut P.D.</b> , Anuse M. and Kolekar S.S.	2012	Removal of Bi (III) with adsorption technique using coconut shell activated carbon	<i>Chinese Journal of Chemical Engineering</i>	1004-9541	Vol. 20 (4)	1 - 8	1.093
45	Mayekar V. , M. Pathare, G. Afonso, V.T. Mohite, Y.K. Lahir and <b>P.D. Raut</b>	2012	Effect of sub-lethal dose of nickel on the biochemical parameters in the tissue of female crab <i>Scylla serrata</i> from Mumbai coast	<i>J. Ecophysiol. Occup. Hlth</i>	0972-4397	Vol.1 2	69-76	---
46	Phadnis S. D., Chandgade C. A., Patil A. K. and <b>Raut P. D.</b>	2013	Impact of Ganesh idol immersion and colour pigments on biochemicals of the bivalve mollusk, <i>Lamellidens marginalis</i>	<i>Journal of Environmental Biology</i>	0254-8704		ISSN 02548704	---
47	Patil V.N. and <b>Raut P.D.</b>	2013	Acute toxicity and behavioral effects of Neonicotinoid insecticide formulation in freshwater crab <i>Paratelphusa jacquemontii</i> (Rathbun)	<i>Indian journal of Applied Research</i>	2249-555X	V3(3) Mar 2013	143-145	0.8215
48	Patil V.N. Jadhav A.S. and <b>Raut P.D.</b>	2013	Ecological and economical assesment of Paddy ( <i>Oryza sativa</i> ) cultivation in some villages of Shahuwadi Tahsil of Kolhapur district, Maharashtra India	<i>International Journal of Agricultural science and Research</i>	2250-0057	Vol. 3, Issue 1, Mar 2013	225-234	2.8571
49	Mohite MG, Patil VN, Jadhav AS and <b>Raut PD</b>	2013	Physico-chemical characterization of water from drinking water Treatment Plants (WTPs) around Kolhapur city of Maharashtra, India	<i>Indian Stream Res. J</i>	2230-7850	Vol. III Issue VI July 2013		0.21
50	Jadhav AS, Powar MH and <b>Raut PD</b>	2012	Potential use of water hyacinth ( <i>E. crassipes</i> ) in constructed wetlands for treatment of textile effluent in	<i>J of water Res.</i>	3294-9473	134	153-160	---

			Common effluent treatment plant					
51	Mohite VT, Kulkarni VJ, Lahir YK, Das G and <b>Raut P.D.</b>	2012	Study on the effects of sub-lethal exposure of Cd ion on the tissues of blood clam, <i>Cardiata antiquata</i> (Reeve) from Mumbai coast.	<i>J. of Ecophysiol. And occupational health</i>	0972-4397	12	42-50	---
52	Tamboli AM, Bhosale PR, Chonde SG, Ghosh JS and <b>Raut P.D.</b>	2012	Effect of endosulfan on IAA and GB secretion by <i>Azospirillum</i> SPP NCIM 2584 and <i>Azotobacter</i> SPP NCIM 2452	<i>Int. Res. J of Envi Sciences</i>	2319-1414	V1(3)	1-4	---
53	Wali B.S. and <b>Raut P.D.</b>	2013	Assessment of working conditions and physical fitness of female tobacco workers in different tobacco units at Jaysingpur city of Kolhapur district MH	<i>Int, J of Pharma. And Biol. Arch.</i>	0976-3333	V4(1)	1555-1559	---
54	Wali BS and <b>Raut P. D.</b>	2013	Lung volume study of female workers in tobacco processing units	<i>Int J of Res. In Zool</i>	---	V3(1)	1-3	---
55	Ingavale R.R., Jadhav V.V. and <b>Raut P.D.</b>	2013	Studies on Watershed Management in Shivaji University, Kolhapur, India	<i>International Research Journal of Environment Sciences</i>	2319-1414	Vol. 2(7), July	35-38,	---
56	Patil Mansing R., <b>Raut P.D.</b>	2013	Removal of phosphorus from sewage effluent by adsorption on Laterite	<i>International Journal of Engineering Research &amp; Technology (IJERT)</i>	2278-0181	Vol. 2 Issue 9, September - 2013	551-559	---
57	Chonde Sonal G, Pawar Nilambari R, Chonde Sachin G, <b>Raut P. D.</b>	2013	Study of degradation of synthetic polymer nylon 6 by composting method	<i>International Journal of Advanced Research in Engineering and Technology</i>	0976 - 6480 (Print) 0976 - 6499 (Online)	V 4, Issue 6, Sept. 2013,	50-56	5.8376 (GIF)
58	Chonde S.G., Mishra A.S. and <b>Raut P.D.</b>	2013	Bioelectricity production from wastewater using microbial fuel cell (mfc)	<i>International Journal of Advanced Research in</i>	0976 - 6480 (Print)	V 4, Issue 6, Sept.	62-69	5.8376

				<i>Engineering and Technology</i>	0976 – 6499 (Online)	2013,		(GIF)
59	Jadhav A. S. Patil V.N. <b>Raut P. D.</b>	2013	Systematic Investigation of Hydro-Chemical Characteristics of Six Different Lakes in and around Kolhapur city, Maharashtra, India	<i>European Academic Research,</i>	2286-4822	vol. I, issue 8/ Nov 2013	2036-2050	0.485
60	Mangalekar S.B., Jadhav A.S. and <b>Raut P.D.</b>	2013	Ambient air quality monitoring- A case study of Kolhapur city, Maharashtra	Proceeding of National Conference CANTTA by H.S. College of Arts and Science, Mumbai	2320-7817	--	15-23	--
61	Mayekar V., Dasguru A., Mohite V. T., Lahir Y. K. and <b>Raut P. D.</b>	2013	Study On The Effects Of Exposure Of Sub-Lethal Dose Of Nickel On The Enzyme Activities In The Tissues Of Female Crab <i>Scylla Serrata</i> From The Coast Of Mumbai V. Mayekar, A. Dasguru, V. T. Mohite, Y. K. Lahir and P. D. Raut	Proceeding of Sustainable Water Resource Development and Management (SWRDM)-2012.	:978-81-926964-0-9		177	---
62	Priya Loni and <b>Raut P.D.</b>	2013	A study of physico-chemical properties of groundwater in some parts of Karveer taluka, District Kolhapur	Proceeding of SWRDM-2012.	978-81-926964-0-9		234	---
63	Ingavale R. R., Mohite S. A., Shinde T. V., Jadhav A.S. and <b>Raut P. D.</b>	2013	Studies on physico-chemical characteristics of soil of Bhogawati river bank in Kolhapur District	Proceeding of SWRDM-2012.	978-81-926964-0-9		263	---
64	Padalkar R. C., Jadhav P.L., Jadhav A.S. and <b>Raut P.D.</b>	2013	Use of sub-surface drainage treatment for reclamation of saline soil: A case study of Kasabe Digraj village, District: Sangali, State: Maharashtra.	Proceeding of SWRDM-2012.	978-81-926964-0-9		269	---

65	Chandgade C.A., Patil V.N., Jadhav V.V. and <b>Raut P.D.</b>	2013	Effect of textile effluent on some enzyme activities in different tissues of freshwater crab, <i>Paratelphusa jacquemontii</i> .	Proceeding of SWRDM-2012.	978-81-926964-0-9		281	---
66	Sartape A., Mandhare A., Jadhav V., <b>Raut P. D.</b> , Anuse M. N. and Kolekar S. S.	2013	Removal of Malachite Green dye from aqueous solution with adsorption technique using <i>Limonia acidissima</i> (wood apple) shell as low cost adsorbant	<i>Arabian Journal of Chemistry</i>	1878-5352	Vol. 7, Issue: 12 Dec, 2013		2.266
67	Patil V.N., Kadam G.H. and <b>Raut P.D.</b>	2014	Enzymological alterations produced by chronic Malathion exposure in freshwater crab, <i>Paratelphusa (Barytlphusa) jacquemontii</i>	<i>Int J of Science Envi. And Technology</i>	2278-3687 (O)	Vol. 3, No 1,	303 – 313	0.412
68	Jadhav A.S., Jadhav V.V. and <b>Raut P.D.</b>	2014	Role of Higher Education Institutions in Environmental Conservation and Sustainable Development: A case study of Shivaji University, Maharashtra, India	<i>Journal of Environment and Earth Science</i>	2224-3216 (Paper ) ISSN 2225-0948 (Online)	Vol. 4, No.5, 2014	30-34	-
69	Mangalekar S.B., Jadhav A.S. and <b>Raut P.D.</b>	2014	Assessment of Water Quality of Nullahs From Kolhapur City-Maharashtra (India)	<i>Indian Journal of Research</i>	2250-1991	Vol-3 issue-5	117-120	1.67
70	A.S. Jadhav and <b>P.D. Raut</b>	2014	Evaluation of microbiological quality of ice creams marketed in Kolhapur city, Maharashtra, India	<i>Int.J.Curr.Mi crobiol .App.Sci</i>	2319-7706	Volume 3 Number 9	78-84	0.71
71	Amruta D. Patil and <b>P. D. Raut</b>	2014	Treatment of textile wastewater by Fenton's process as a Advanced Oxidation Process	<i>IOSR Journal of Environment al Science, Toxicology and Food Technology</i>	e- ISSN: 2319-2402, P- ISSN: 2319-2399.	Volume 8, Issue 10 Ver. III	29-32	

72	B.S. Wali, V.N. Patil and <b>P.D. Raut</b>	2014	Occupational health Profile and Problems Among Female Workers Processing dried Tobacco leaves in Tobacco industries	<i>J. Ecophysiol. Occup. Hlth</i>	09724 397	14(1 & 2)	12–16	--
73	S.B. Mangalekar, A.S. Jadhav, and <b>P.D. Raut</b>	2015	Studies on Ambient Air Quality Status of Kolhapur City, Maharashtra, India During Year 2013	<i>Asian Journal of Water, Environment, and Pollution</i>	DOI10 .323/A JW-15003	Vol.1 2, No3 (2015)	15-22	--
74	Pallavi R. Bhosale, Ranjit G. Gurav, Jyoti P. Jadhav and <b>Prakash D. Raut</b>	2015	Improvisation of Pressmud by Organic Amendment and Its Effect on Soil Quality and Growth of Chilli, Capsicum annum	Proceedings of the National Academy of Sciences, India	0369-8211			0.754
75	Padalkar R. C. and <b>Raut P. D.</b>	2016	Assessment of Soil Carbon Level After Application of Pressmud and Mulching Regarding Soil Carbon Sequestration	<i>Nature Environment and Pollution Technology</i>	0972-6268	Vol. 15 No. 2	601-604	0.138
76	Jadhav A.S., Patil, P. V., and <b>Raut, P. D.</b>	2016	Diatom diversity of three fresh water lakes in Kolhapur city, Maharashtra	<i>Universal Journal of Environmental Research and Technology</i>	e- 2249 0256	Volume 6, Issue 4		Cosmos impact factor 2015 4.56
77	Dhawal S. J. and <b>Dr. Raut P. D.</b>	2017	Assessment of physico-chemical characters and heavy metal distribution along the panchganga river, ms, india	<i>World journal of pharmacy and pharmaceutical sciences</i>	2278 – 4357	Volume 6, Issue 8,	1823-1836	SJIF Impact Factor 6.647
78	Sonal Chonde and <b>Prakash Raut</b>	2017	Treatment of dairy wastewater by <i>Moringa oleifera</i> seeds	<i>World journal of pharmaceutical research</i>	2277 – 7105	Volume 6, Issue 8,	1483-1493	SJIF Impact Factor 6.647
79	G. H. Kadam & <b>P.D. Raut</b>	2018	Ultrastructural changes in the gills of the freshwater crab, <i>Paratelephusa jacquemontii</i> , after exposure to silver nanoparticles (AgNP).	<i>Research Journal of Life Sciences, Bioinformatics, Pharmaceutical, and Chemical</i>	2458-6348	4 (2), page No. 17.	17-27	

				<i>Sciences</i>				
80	Kadam GH, Chougule AA, Raut GA and <b>Raut PD.</b>	2018	Spatial Distribution of Insects from Order Lepidoptera in and around Proposed Nuclear Power Plant Site at Jaitapur, Maharashtra, India.	<i>International Journal of Life Sciences</i>	2320-7817	Special Issue A10	111-116	
81	Chougule AA, Kadam GH and <b>Raut PD</b>	2018	Study of avifauna around proposed nuclear power plant site at Jaitapur, Maharashtra, India.	<i>International Journal of Life Sciences</i>	2320-7817	Special Issue A10	117-125	
82	R. R. Ingavale and <b>P. D. Raut.</b>	2018	Comparative Biodegradation Studies of LDPE and HDPE Using <i>Bacillus weihenstephanensis</i> Isolated from Garbage Soil.	<i>Nature Environment and Pollution Technology</i>	2395-3454	Vol; 17 No.2	649-655	
83	Gaikwad N. B., Thakur V.T., Jadhav A. S., <b>Raut P. D.</b>	2018	Studies On Low Cost Adsorbent Biomaterial Like 'Coconut Coir' And 'Wood Coal' For Treatment Of Textile Industry Effluent	<i>International Journal of Recent Trends in Conservation and management of Ecosystems</i>	97881-93124 7-7-2	--	99-108	
84	Gaikwad N.B. And <b>Raut P.D.</b>	2018	Mapping Saltwater Intrusion Affected Areas Along The Coast Of Malvan, District- Sindhudurg Using Ionic Ratios and GIS	<i>EM International Poll Res.</i>	0257-8050	37 (3)	242-250	
85	Ingavale R. R., Patil C.K., and <b>P. D. Raut.</b>	2018	Assessment of polyethylene degradation by <i>Aspergillus niger</i> using submerged cultivation and soil burial method	<i>International Research Journal of Environmental Sciences</i>	2319-1414	7(7)	16-22	
86	Manjusha R. Jadhav , Anjali Pudalea , <b>Prakash Raut</b> , Sagar Utturea , T.P. Ahammed Shabeera , Kaushik Banerjee	2018	A unified approach for high-throughput quantitative analysis of the residues of multi-class veterinary drugs and pesticides in bovine milk using LC-MS/ MS and GC-MS/MS	Food Chemistry	0308-8146	272	292-305	4.956

87	Kadam G.H. and <b>Raut P.D.</b>	2019	Histological alterations in the gills of crab, <i>Paratelphusa jacquemontii</i> after chronic exposure to silver nanoparticles (AgNP)	<i>Indian Journal of Ecology</i>	0304-5250	42(2)	422 - 426	4.96
88	Manjusha R. Jadhav , <b>Prakash Raut</b> , and Kaushik Banerjee	2019	Validation of residue analysis method for sulfadiazine and trimethoprim drugs and their residue depletion in chicken eggs	<i>Indian Journal of Ecology</i>	0304-5250	46(1)	162-166	4.96
89	Patil VN, Mangalekar SB, Lad RJ, Patil RS and <b>Raut PD</b>	2019	Ambient air quality monitoring and assessment of air pollution status at different locations in Kolhapur city	Journal of Research in Environmental Science and Toxicology	2315-5698	Vol. 8(1)	47-49	

## 6. Patent filed: 01

“Improved rapid Composting procedure with high nutrient using various waste materials.”

## 7. Conferences attended:

### 1. Papers presented at International Conferences / Seminars / Symposia:

1. **P. D. Raut** and D. A. Bhiwgade, 1995, “Profile of certain serum biochemical and hormonal changes during the reproductive cycle of the male Indian bat, *Rousettus leschenaulti*”, in the 10<sup>th</sup> International “Bat Research Conference”, at the Department of Biology, Boston University, Boston, M.A. 002215, U.S.A.
2. **P. D. Raut**, Vaidehi Mayekar and D. A. Bhiwgade, 2000, “Effect of Testosterone enanthate on testis and reproductive tract of male bonnet monkey, *Macaca radiata*”. In the International Conference on “Probing in Biological Systems” held at the Institute of Science, Mumbai – 32.
3. **P. D. Raut**, Vaidehi Mayekar and D. A. Bhiwgade, 2000, “Ultrastructural observations in epididymis after testosterone enanthate treatment in male bonnet monkey, *Macaca radiata*”, in the International Conference on “Probing in Biological Systems” held at the Institute of Science, Mumbai – 32.
4. **P. D. Raut**, S. Venkatesh and S. S. Pawar, 2000, “Effect of pollutants on some metabolic activities in mudskipper, *Boleophthalmus dussumieri* from two different zones along the Mumbai coast” in the

International Conference on “ Probing in Biological Systems ” held at the Institute of Science, Mumbai – 32.

5. S. A. Patil, **P. D. Raut**, and S. S. Pawar, 2004, “Cadmium and lead induced ultrastructural changes in the gills of the rock oyster, *Crossostrea cucullata* of the Mumbai coast ”, in the International Congress of Zoology, Beijing, China.
6. Jyoti Tope, **P. D. Raut**, and S. S. Pawar, 2004, “Ecdysteroid regulated expression of heat shock proteins during the development of the insect pest, *Pseudaletia litura* ”, in the International Congress of Zoology, Beijing, China.
7. C. A. Chandagade, Manoj Kushwah, **P. D. Raut**, 2007, “Textile effluents and its impact on urban ecosystem”, International Conference on “Urban Planning and Environment: Strategies and Challenges” organized by University of Mumbai and Elphinstone College, Mumbai.
8. Injal A. S. and **Raut P. D.** 2008 “Bioaccumulation of Lead (Pb) and removal by Calcium Chelation therapy in the gills and mantle tissue of freshwater bivalve, *Lamellidens marginalis*”. International Conference on Technologies for Mitigation of Environmental Pollution and their application in conservation of Aquatic ecosystem. Organised by Department of Zoology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
9. Injal A. S. and **Raut P. D.** 2008 “Calcium chelation therapy and Lead induced alterations in histoarchitecture of collagen fibers in the gills of freshwater bivalve, *Lamellidens marginalis*.”, International Conference on Technologies for Mitigation of Environmental Pollution and their application in conservation of aquatic ecosystem. organised by Department of Zoology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
10. Jadhav V.V., Chandgade C.A., Patil A. K. and **Raut P. D.** 2008, “Genotoxicity of Bisphenol A on oot meristem cells of *Allium cepa*: a cytogenetic approach ” International Conference on Techonologies for Mitigation of Environmental Pollution and their application in conservation of aquatic ecosystem. organised by Department of Zoology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
11. Kamble J. R., Chandgade C.A., Jadhav V.V., Patil A. K. and **Raut P. D.** 2008, “Assesment of enzyme activities in the fresh water bivalve, *Lamellidens marginalis* exposed to tannery wastewater” International Conference on Techonologies for Mitigation of Environmental Pollution and their application in conservation of aquatic ecosystem. organised by Department of Zoology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
12. Patil A. K., Deshpande S. M., Chonde S. G. and **Raut P. D.** 2008, “ Biosorption of Cr (VI) from electroplating industry using biomaterial ”International Conference on Technologies for Mitigation of Environmental Pollution and their application in conservation of aquatic ecosystem. organised by Department of Zoology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.



13. Chonde S. G., Patil A. K. and **Raut P. D.** 2008, "Detection of pesticide residues in the vegetables and fruits: a case study of Kolhapur city" International Conference on Technologies for Mitigation of Environmental Pollution and their application in conservation of aquatic ecosystem. organised by Department of Zoology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
14. Chonde S.G. and **Raut P. D.** Solid waste minimization practices International Conference on Commercialization of Renewable Energy Technology, (CRET) 2009 organized 21<sup>st</sup> -23<sup>st</sup> Oct. 2009, Dr. D. Y Patil University, Kolhapur.
15. Jadhav V. V., Patil A.K. and **Raut P.D.** "Environmental and natural resource accounting and its linkage to green buildings" Green Tech 2010 organised by Department of Environmental Science and Technology, Shivaji University, Kolhapur and Dyandeep Foundation, Sangli at Bangkok, Thailand on 24<sup>th</sup> January, 2010.
16. Chonde Sonal G., Chonde Sachin G., Bhosale Pallavi R. Nakade D. B. and **Raut P. D.** 'Studies on degradation of synthetic polymer Nylon 6 by fungus *Trametes versicolor* NCIM 1086', Agricultural Biotechnology for Sustainable Development, (ABSD 2012) Organized by University of Colombo, University of Rohana, University of Peradenia and University of BAMU, Aurangabad from 12<sup>th</sup> -13<sup>th</sup> March 2012 at University of Colombo, Sri Lanka.
17. Bhosale P. R., Chonde S. G. and **Raut P. D.**, Studies on extraction of sugarcane wax from press mud of sugar factories from Kolhapur district, Maharashtra, International Congress on Environmental Research, 15<sup>th</sup> -17<sup>th</sup> December 2011, SVNRT, Surat, Gujrat, India.
18. Patil Y.Y., Chaougaonkar M.P. and **Raut P.D.** Demographic study around proposed Jaitapur Nuclear Power plant, Maharashtra, India: a case study, , International congress on Environmental Research, 15<sup>th</sup> -17<sup>th</sup> December 2011, SVNRT, Surat, Gujrat, India.
19. Loni P.P. and **Raut P.D.** Hydro-geochemical study of the groundwater quality in Karveer taluka, district Kolhapur. International conference on Multidisciplinary Approaches in Applied Geology MAAG 2012 at Gokhale College, Kolhapur, India on 20<sup>th</sup>-21<sup>st</sup> January, 2012.
20. Bhosale P. R., Chonde S. G., Nakade D. B. and **Raut P. D.** Studies on Physico- Chemical characteristics of waxed and dewaxed pressmud and its effect on water holding capacity of soil , Agricultural Biotechnology for Sustainable Development, (ABSD 2012) Organized by University of Colombo, University of Rohana, University of Peradenia and University of BAMU, Aurangabad from 12<sup>th</sup> -13<sup>th</sup> March 2012 at University of Colombo, Sri Lanka.
21. Chonde Sonal G., Chonde Sachin G., Bhosale Pallavi R. Nakade D. B. and **Raut P. D.** Studies on degradation of synthetic polymer Nylon 6 by lignolytic fungus, *Phanerochaete Chrysosporium* NCIM 1073, International congress on Environmental Research, 15<sup>th</sup> -17<sup>th</sup> December 2011, SVNRT, Surat, Gujrat, India.

22. P.R.Bhosale, Chonde S.G., Nakade D.B. and **Raut P.D.** Studies on Physico-Chemical characteristics of waxed and dewaxed pressmud and its effect on water holding capacity of soil. "Sri Lanka-India Conference on Agricultural Biotechnology for Sustainable Development" (ABSD 2012) (BMICH) Colombo, Sri Lanka. 12-13<sup>th</sup> March 2012, Columbo University, Sri Lanka.
23. Kadam G.H., Jadhav A.S., Kanase R.V. and **Raut P.D.** Physico-chemical and Bacteriological analysis of Road Side food vendors drinking water of Kolhapur city, International Conference on Sustainable Water Resource Development and Management' (SWRDM 2012) 20<sup>th</sup>-21<sup>st</sup> Dec. 2012 Dept. of Env. Science, Shivaji University, Kolhapur.
24. Loni P.P. and **Raut P.D** A study of chemical properties of groundwater in some parts of Karveer taluka, district Kolhapur, International Conference on 'Sustainable Water Resource Development and Management' (SWRDM 2012) 20<sup>th</sup>-21<sup>st</sup> Dec. 2012, Dept. of Env. Science, Shivaji University, Kolhapur.
25. Patil Y.Y. and **Raut P.D.** Studies On Physico-Chemical Parameters Of Waghotan River In Konkan Region, Maharashtra, India, International Conference on "Sustainable Water Resources Development and Management" (SWRDM 2012) Department of Environmental Science, 20<sup>th</sup>-21<sup>st</sup> Dec. 2012 Shivaji University, Kolhapur.
26. Ingavale R.R., Mohite S.A., Shinde T.V. and **Raut P.D.** Studies on Physico-chemical characteristics of river bank soil from Bhogawati River in Kolhapur District International Conference on 'Sustainable Water Resource Development and Management' (SWRDM 2012) 20<sup>th</sup> – 21<sup>st</sup> Dec. 2012, Dept. of Env. Science, Shivaji University, Kolhapur
27. Gaikwad N.B., Pawar M, Jadhav A.S. and **Raut P.D.** Phytoremediation with the use of water hyacinth (*Echhornia crassipes*) in constructed wetlands for treatment of textile effluent, International Conference on 'Sustainable Water Resource Development and Management' (SWRDM 2012) 20<sup>th</sup>-21<sup>st</sup> Dec. 2012 Dept. of Env. Science, Shivaji University, Kolhapur,
28. Chonde S.G., Pawar Nilambari and **Raut P.D.** Isolation and biodegradation study of synthetic Polymer Nylon 66 Sustainable water resource development and Management, (SWRDM 2012) 20-21 Dec 2012, Dept. of Env. Sci. Shivaji University, Kolhapur.
29. Chonde S.G., Pawar Nilambari and **Raut P.D.** Studies on degradation of synthetic polymer Nylon 6 and Nylon 6, 6 by *pseudomonas aerogenosa* NCIM 2242 International Science Congress 2012 8- 9 Dec. 2012 organized by ISCA at Mathura, UP, India
30. Jadhav V. V., Mangalekar S. B., Patil V.N., Lad R.J. and **Raut P. D.** Ambient Air Quality Monitoring and Assessment of air pollution status in Kolhapur City International Workshop on 'Changing Chemistry in Changing Climate: Monsoon (C4)' held at Pune, India between 1<sup>st</sup>-3<sup>rd</sup> May 2013, IITM, Pune.

31. Wali B.S., Patil V.N. and **Raut P.D.** Occupational health profile and problems among female workers processing dried tobacco leaves in tobacco Industries, Int. conf, on Biosciences with Special Reference to Environmental Issues (ICBEI-2013) held on 19<sup>th</sup> to 21<sup>st</sup> Dec 2013 held at Department of Zoology, Shivaji University, Kolhapur (MH) India.
32. Padalkar R.C., Gaikwad N.B. and **Raut P.D.** Comparative studies on carbon level from agriculture soil and mud flats around coastal area of Malvan Dist. Sindhudurga. Int. conf. on Green India: Strategic Knowledge for Combating Climatic Change (GISKCCC): Prospects and challenges” during 5<sup>th</sup> to 7<sup>th</sup> December, 2013, held at Paundicherry University, Paundicherry, India.
33. Patil V.N., Kadam G.H. and **Raut P.D.** Enzymological alterations produced by chronic Malathion exposure in freshwater crab, *Paratlephusa (Barytlephusa) jacquemontii*. International Symposium on Halogenated Persistent Organic Pollutants (POPs) at CSIR- NEERI Nagpur during 16<sup>th</sup> and 17<sup>th</sup> Jan. 2014.
34. International Conference on Materials science and ionizing radiation safety and awareness (ICMSIRSA-2016), from January 28-30, 2016 organized by Department of Physics, Shivaji University, Kolhapur.
35. Participated in the “International CME on Environmental Physiology”, held at Krishna Institute of Medical Sciences Deemed University, Karad on 27<sup>th</sup> July 2016.
36. Kadam G.H. and **Raut P.D.** Paper presented on “Environmental Awareness through ecofriendly Ganesh Idol Immersion in Lakes during Ganesh Festival in Kolhapur city: A case study of Shivaji University, Maharashtra.” in International conference on “Concept and New Trends in Aerobiology & Allergy”. Held on 26<sup>th</sup> & 28<sup>th</sup> December 2014 At Engineering College, Bangalore.
37. Gaikwad N. B., Jadhav A. S., **Raut P. D.** (2014) “Phytoremediation with the use of “*Eichhornia crassipes* and *Pistia stratiotes*” for treatment of textile industry effluent” in “7<sup>th</sup> International Congress of environmental Research (ICER) 2014”,
38. Kadam G. H., and **Raut P.D.**” Poster presented on “SEM studies on gills of Crab, *Paratelephusa jacquemontii* exposed to silver nanoparticles (AgNP)” In International conference on “14<sup>th</sup> International Symposium on Metal Ions in Biology and Medicine and 4<sup>th</sup> Green Health Conference”, Organized by CSIR-NEERI, IIT Bombay, University of Mumabi, SINP Calcutta, Green Heath Foundation, Held on 28<sup>th</sup> to 30<sup>th</sup> November 2016 At Mumabi University.
39. Bhosale P. R., Chougule A.A, Jadhav A.S. and **Raut P. D.** Oral Presentation “Seasonal study of composition of raw pressmud and dewaxed pressmud from Sugar industries from Kolhapur

District. Held on 10<sup>th</sup> January 2020 CSIBER, Kolhapur Department of Environmental Science.

## 2. Papers presented at National Conferences / Symposia:

1. **P. D. Raut** and D. A. Bhiwgade, 1994, "Testosterone enanthate : An ideal male contraceptive" in the National Symposium on "Eco-Environmental Impact and Organism Response", held at Government Vidarbha Mahavidyalaya, Amravati.
2. **P. D. Raut** and D. A. Bhiwgade, 1996, "Endocrinological Approach to Male Fertility in bonnet monkey, *Macaca radiata*: Some ultrastructural studies in testis and serum hormone levels", before staff club of Elphinstone College, Mumbai.
3. **P. D. Raut** and D. A. Bhiwgade, 1996, "Ultrastructural observations of testis of bonnet monkey, *Macaca radiata* : Testosterone enanthate". A poster presented in Recent Advances in Environmental Physiology and Endocrinology held at the Institute of Science, Mumbai.
4. **P. D. Raut** and D. A. Bhiwgade, 1999, "Effect of Testosterone enanthate on the serum biochemistry of male bonnet monkey, *Macaca radiata*", at 17<sup>th</sup> National Conference of Society for Reproductive Biology and Comparative Endocrinology at Surat.
5. **P. D. Raut** and D. A. Bhiwgade, 2000, Ultra-structural and biochemical in epididymis after testosterone enanthate treatment in male bonnet monkey, *Macaca radiata* ". in 87<sup>th</sup> Indian Science Congress held at Pune.
6. **P. D. Raut**, S. Venkatesh and S. S. Pawar, 2000, "Effect of thermal stress on gene expression due to synthesis of heat shock proteins in the fish, *Clarias batrachus*." In "1<sup>st</sup> Indian Fisheries Science Congress", held at Chandigarh, organised by Indian Society of Fisheries Professionals, Mumbai.
7. **P. D. Raut** and S. S. Pawar, 2000, "Seasonal variations in the water quality of Mumbai coast area". In the National Seminar on Conservation of Biodiversity and Coastal Aquaculture held at Marine Biological Center, Karnataka University, Karwar.
8. N. L. K. Wasnik, **P. D. Raut** and S. S. Pawar, 2000, "Effect of Cadmium and Zinc on the Histological structures of Gills and Hepatopancreas of the blood clam, *Cardiata antiquata* and Rock Oyster, *Crassostrea cucullata*". In the National Seminar on Conservation of Biodiversity and Coastal Aquaculture held at Marine Biological Center, Karnataka University, Karwar.
9. B. S. Desai, N. L. K. Wasnik, **P. D. Raut** and S. S. Pawar, 2000, "Study of some biochemical parameters in blood clam, *Cardiata antiquata* and Rock Oyster, *Crassostrea cucullata* exposed to heavy metal Cadmium and Zinc". In the National Seminar on Conservation of Biodiversity and Coastal Aquaculture held at Marine Biological Center, Karnataka University, Karwar, from 7<sup>th</sup> – 9<sup>th</sup> Nov. 2000.

10. **P. D. Raut** and D. A. Bhiwgade, 2001, "Ultrastructural observations of gonadotroph cells and hormonal studies after testosterone enanthate treatment in male bonnet monkey, *Macaca radiata*." In the 88<sup>th</sup> Indian Science Congress held at New Delhi.
11. Vaidehi Mayekar, **P. D. Raut** and D. A. Bhiwgade, 2001, "Ultrastructural and light microscopic observations in seminal vesicle and prostate after testosterone enanthate treatment in male bonnet monkey *Macaca radiata*." In the XIX National Symposium of the Society for Reproductive Biology and Comparative Endocrinology and UGC-DSA Conference held at Department of Zoology, Faculty of Science, M.S. University of Baroda, Vadodara, Gujrat.
12. **P. D. Raut** and D. A. Bhiwgade, 2001, " Comparative Ultrastructural study of rat and monkey epididymis : CPA+ TE, Gossypol and Testosterone " In National Symposium on " Recent Trends in Life Sciences and Biotechnology " held at Department of Life Sciences and Biotechnology, University of Mumbai.
13. Vaidehi Mayekar, **P. D. Raut** and S. S. Pawar, 2001," Use of marine crustaceans as biological indicators : a critical study in *Scylla serrata* exposed to Cadmium " In National Seminar on " Comparative Animal Physiology " held at Department of Zoology, University of Goa, Goa - 403 206.
14. N. L. K. Wasnik, **P. D. Raut** and S. S. Pawar, 2001, "Effect of heat shock on total protein contents of the crab, *Scylla serrata* " In National Seminar on " Comparative Animal Physiology " held at Department of Zoology, University of Goa, Goa - 403 206.
15. Vaidehi Mayekar, **P. D. Raut** and S. S. Pawar, 2002, "Ultrastructural studies on histopathological changes in hepatopancreas of crab, *Scylla serrata* ( Forskal ) exposed to heavy metal cadmium" in National Symposium on "Physiology and Biochemistry of Cultivable Crustaceans" held at Department of Zoology, University of Madras, Chennai – 600 025.
16. N. L. K. Wasnik, **P. D. Raut** and S. S. Pawar, 2001, "Effect of 5 HT on the ovarian development in the crab, *Scylla serrata* ( Forskal ) – Ultrastructural study" in National Symposium on "Physiology and Biochemistry of Cultivable Crustaceans" held at Department of Zoology, University of Madras, Chennai – 600 025.
17. Vaidehi Mayekar, **P. D. Raut** and S. S. Pawar, 2003, "Ultrastructural studies of spermatophore of the male crab, *Scylla serrata* (Forskala) exposed to heavy metal cadmium ".in 20<sup>th</sup> Annual Conference of Indian Society for Comparative Animal Physiology and Symposium on " Physiological Approaches to Conserve Biodiversity and to Tackle Environmental Health Hazards " held at Department of Zoology, Sri Venkateshwara University, Tirupati- 517 502 (India).
18. S. A. Patil, **P. D. Raut** and S. S. Pawar, 2001, "Chronic toxicity effects of lead on biochemical composition of hepatopancreas and gills of the rock oyster, *Crossostrea cucullata* from south Mumbai coast " in 20<sup>th</sup> Annual Conference of Indian Society for Comparative Animal Physiology and Symposium on "Physiological Approaches to Conserve Biodiversity and to Tackle Environmental

Health Hazards” held at Department of Zoology, Sri Venkateshwara University, Tirupati - 517 502, India .

19. S. A. Patil, S. S. Pawar, **P. D. Raut**, N. L. Wasnik, Vaidehi Mayekar and Jyoti Tope, 2003, “Cadmium induced ultrastructural changes in the hepatopancreas of rock oyster, *Crassostrea cucullata* of Mumbai Coast”, National Symposium on “ Recent Trends in Biology and Biotechnology ” and 23<sup>rd</sup> Annual Session of “Academy of Environmental Biology”, held at Department of Zoology, Shivaji University, Kolhapur.
20. Jyoti Tope, Vaidehi Mayekar, **P. D. Raut** and S. S. Pawar, 2003, “Protein synthetic response to heat shock in the insect pest *Spodoptera litura*”, National Symposium on “Recent Trends in Biology and Biotechnology” and 23<sup>rd</sup> Annual Session of “Academy of Environmental Biology”, held at Department of Zoology, Shivaji University, Kolhapur.
21. Vaidehi Mayekar, Nitin Wasnik, S. S. Pawar, **P. D. Raut**, V. J. Kulkarni, 2003, “Some observations on the ultrastructure of the ovary of the crab, *Scylla serrata* exposed to cadmium.”, National Symposium on “Recent Trends in Biology and Biotechnology” and 23<sup>rd</sup> Annual Session of “Academy of Environmental Biology”, held at Department of Zoology, Shivaji University, Kolhapur.
22. Nitin Wasnik, S. Venkatesh, Jyoti Tope, S. S. Pawar, **P. D. Raut**, “Effect of 5HT in the carbohydrate metabolism of the male crab, *Scylla serrata*”, National Symposium on “Recent Trends in Biology and Biotechnology” and 23<sup>rd</sup> Annual Session of “Academy of Environmental Biology”, held at Department of Zoology, Shivaji University, Kolhapur.
23. S. A. Patil, S. S. Pawar and **P. D. Raut**, 2004, “Changes in the ATPase activity of the rock oyster, *Crassostrea cucullata* exposed to sublethal concentration of cadmium and lead ” in National Symposium on “ Aquaculture : Prospects and Problems ” held at the Institute of Science, Mumbai.
24. Vaidehi Mayekar, S. S. Pawar and **P. D. Raut**, 2004, “Accumulation studies in different tissues of the crab, *Scylla serrata* (Forsk.) exposed to cadmium ” in National Symposium on “ Aquaculture : Prospects and Problems ” held at the Institute of Science, Mumbai.
25. Vaidehi Mayekar, Manoj Khushwah, V.J. Kulkarni, S. S. Pawar and **P. D. Raut**, “Ultrastructural observations of the gills of the crab, *Scylla serrata* (Forsk.) exposed to cadmium ” in National Symposium on “Biodiversity, Biotechnology and Environmental Toxicology in the New Millennium” held at the Institute of Science, Mumbai from 22 – 24<sup>th</sup> November, 2004 .
26. S. Venkatesh, Manoj Khushwah, S. S. Pawar and **P. D. Raut**, “Serotonin induced hyperglycemia in the crab, *Scylla serrata* ” in National Symposium on “ Biodiversity, Biotechnology and Environmental Toxicology in the New Millennium ” held at the Institute of Science, Mumbai from 22 – 24<sup>th</sup> November, 2004 .
27. Pradeep Wahule, Jyoti Tope, Manoj Khushwah, S. S. Pawar and **P. D. Raut**, “Studies on the induction of thermotolerance due to heat shock ” in National Symposium on “ Biodiversity,

Biotechnology and Environmental Toxicology in the New Millennium ” held at the Institute of Science, Mumbai from 22 – 24<sup>th</sup> November, 2004 .

28. L.N. Meshram, S. S. Pawar and **P. D. Raut**, “Studies on alterations in the protein and moisture contents of *Trichiurus sp.* During frozen packaging” in National Symposium on “Biodiversity, Biotechnology and Environmental Toxicology in the New Millennium” held at the Institute of Science, Mumbai from 22 – 24<sup>th</sup> November, 2004.
29. S. A. Patil, Manoj Khushwah, S. S. Pawar and **P. D. Raut**, “Cadmium induced alterations in some enzymes in the gills of the oyster, *Crassostrea cucullata*” in National Symposium on “Biodiversity, Biotechnology and Environmental Toxicology in the New Millennium” held at the Institute of Science, Mumbai from 22 – 24<sup>th</sup> November, 2004 .
30. Mayekar Vaidehi, Manoj Khushwah, Pawar S. S. and **P. D. Raut** 2005 “ Nickel induced changes in the ultrastructure of ovary of the female crab, *Scylla serrata*” National Conference in 25<sup>th</sup> annual Session of The Academy of Environmental Biology and Department of Zoology, Gulberga University, Gulberga.
31. Meshram Leena, Mayekar Vaidehi, Manoj Khushwah, Pawar S. S. and **P. D. Raut** 2005 “Biochemical changes and pathogenic organisms encountered in silver pomphret, *Pampus argenteus* at different stages of frozen packaging and its impact on human health ” National Conference in 25<sup>th</sup> annual Session of The Academy of Environmental Biology and Department of Zoology, Gulberga University, Gulberga.
32. Sayali Phadnis, C. A. Chandagade and **P. D., Raut** “Impact of Ganesh idol immersion on some water parameters from water bodies of Kolhapur city.” National Conference on Frontiers of Applied Animal Sciences held at Shivaji University, Kolhapur on 16 to 18 Oct, 2006.
33. Vaidehi Mayekar, Manoj Kushwah, C. A. Chandagade, **P. D. Raut.**, “Ultrastructural observations of the ovary of the female crab, *Scylla serrata* exposed to heavy metal cadmium” National Conference on frontiers of Applied Animal Sciences held at Shivaji University, Kolhapur on 16 to 18 Oct, 2006.
34. Kulkarni V. J., Vithal Mohite, Pritam Sawant and **P. D. Raut**, 2006 “Alterations in the acid and alkaline phosphatase activity in Blood clam, *Cardiata antiquate* when exposed to sublethal concentration of cadmium.” National Conference on Environmental Pollution and Toxicology. Organized by Department of Zoology, Thakur College of Science and Commerce, Mumbai and University of Mumbai on 22<sup>nd</sup> and 23<sup>rd</sup> Dec. 2006.
35. Shashikala A. Patil , V. T. Mohite, **P. D. Raut** and S. S. Pawar, 2006, “Account of effect of heavy metals on the enzymatic activities of different tissues like gills, heapatopancrease and mantle in the oyster, *Crassostrea cucullata.*” National Conference on Environmental Pollution and Toxicology. Organized by Department of Zoology, Thakur College of Science & Commerce Mumbai & University of Mumbai on 22<sup>nd</sup> and 23red Dec. 2006.

36. Manoj Kushwah, Vaidehi Mayekar, C. A. Chandagade, S. S. Pawar and **P. D. Raut**. “Study of major biochemical components during vitellogenesis in the female crab, *Scylla serrata* administered with Methyl farnesoate.”, National Seminar on “Environmental Scenario: Challenges and Solutions” organized by School of Environmental Biology, Awadesh Pratap Singh University, Rewa and The Academy of Environmental Biology on 23 to 25 Dec, 2006.
37. Sayali Phadnis, Priya Bavlekar, Archana Injal, Julie Kamble and **P. D. Raut** “Impact of Ganesh idol immersion on some water parameters from water bodies of Kolhapur city.” National Conference on Recent Trends in Biotechnology held at L. B. S. College, Satara on 28<sup>th</sup> and 29<sup>th</sup> March, 2007.
38. Patil Y. Y., Chandagade C. A. Patil A. K. and **P. D. Raut** , 2008, “Studies on the alternative water resources from Kolhapur city” National Conference on Environmental Policies for Sustainable Development organized by Environmental Protection Research Foundation on 25<sup>th</sup> and 26<sup>th</sup> December, 2008.
39. Injal Archana and Raut P. D. 2009 Studies on water Conservation Problems: A case study in Satara. National Seminar on ‘Irrigation and Agriculture Development in India’ 18<sup>th</sup> -19<sup>th</sup> March 2009. Arts and Commerce College Ashta, Sangali.
40. Patil Y. Y., Patil A. K. and **P. D. Raut** , 2009 “Studies on impact slaughter house waste on environment” in UGC sponsored National Seminar on “Management of utilization and disposal of urban solid waste” organized by G. S. College, Belgaum on 7<sup>th</sup> and 8<sup>th</sup> August, 2009.
41. Patil A. K., Chandagade C. A. and **P. D. Raut** , 2009 “E waste management – an emerging environmental and health issue” in UGC sponsored National Seminar on “Management of utilization and disposal of urban solid waste” organized by G. S. College, Belgaum on 7<sup>th</sup> and 8<sup>th</sup> August, 2009.
42. V.V. Jadhav, A.K. Patil, C.A. Chandagade and **P.D. Raut**, 2009 “Biodegradation of endocrine disrupting compound Bisphenol A (BPA) by isolated bacterial cultures” in 29<sup>th</sup> Session of Academy of Environmental Biology and National Symposium on ‘Bio-safety and Environmental Impact of Genetically Modified Organisms and Conventional Technologies for Pest Management’ to be held at International Crops Research Institute for the Semi-Arid Tropics, Patancheru, Hyderabad on 20 – 21<sup>st</sup> November, 2009.
43. A. S. Injal and **P. D. Raut**, 2009 “Remedial effect of calcium on Lead induced alterations, in proteins and phosphatase activities in the gills and mantle of fresh water bivalve, *Lamellidens marginalis*” in 29<sup>th</sup> Session of Academy of Environmental Biology and National Symposium on ‘Bio-safety and Environmental Impact of Genetically Modified Organisms and Conventional Technologies for Pest Management’ to be held at International Crops Research Institute for the Semi-Arid Tropics, Patancheru, Hyderabad on 20 – 21<sup>st</sup> November, 2009.



44. Kamble J. R., C. A. Chandagade and **P. D. Raut**, 2010 ‘Acute Toxicity Study of Tannery Wastewater on the Biochemical Constituents of Fresh water Bivalve, *Lamellidens marginalis*’ in the 97<sup>th</sup> Indian Science Congress held at University of Kerala, Trivendrum on 3<sup>rd</sup> to 7<sup>th</sup> January, 2010.
45. Leena N. Meshram, S. S. Pawar and **P. D. Raut**, 2010 “ Study on the occurrence of Human Pathogenic Bacteria in *Trichiurus Spp.* During frozen storage” in the 97<sup>th</sup> Indian Science Congress held at University of Kerala, Trivendrum on 3<sup>rd</sup> to 7<sup>th</sup> January, 2010.
46. Chonde S. G. , Sutar Jyoti and **Raut P. D.** Study on Detection of pesticide and fungicide residues from vegetables. A case study of Karad. National conference On Biodiversity Conservation 8-10<sup>th</sup> Jan 2010 Indian Women Scientist Association, Kolhapur.
47. Ekal T., Patil Y.Y. and **Raut P.D.** Studies on Gardens of Kolhapur City” National Conference on “Biodiversity Conservation in India: Status and Approaches” held on 8 to 10th January, 2010, Panhala, Kolhapur, Maharashtra. Gopal Krishna Gokhale College, Kolhapur and Indian Woman Scientists’ Association, Kolhapur.
48. S. D. Phadnis, C. A. Chandagade, V. V. Jadhav and **P. D. Raut**, 2010 “Impact of Ganesh Idol Immersion and color pigments on biochemicals of bivalve *Lamellidens marginalis*” in the 97<sup>th</sup> Indian Science Congress held at University of Kerala, Trivendrum on 3<sup>rd</sup> to 7<sup>th</sup> January, 2010.
49. C. A. Chandagade, V. N. Patil, A. S. Jadhav and **P. D. Raut**. 2010 “ Studies of the status of Ambient air quality at Kolhapur India” in National Conference on Natural Resources Management and Sustainable Development organized by School of Earth and Environmental Science, North Maharashtra University, Jalgaon on 1<sup>st</sup> and 2<sup>nd</sup> February, 2010.
50. Patil V. N., J. S. Samant and **Raut P. D.** Assessment of the status and ecological impact of “Rab” burning (cultivation) in some villages of Shahuwadi tehsil of Kolhapur District” in National Conference on Natural Resources Management and Sustainable Development organized by School of Earth and Environmental Science, North Maharashtra University, Jalgaon on 1<sup>st</sup> and 2<sup>nd</sup> February, 2010.
51. Y. Y. Patil and **P. D. Raut**, 2010 “Studies on the status of open wells in Kolhapur city” in National Conference on Natural Resources Management and Sustainable Development organized by School of Earth and Environmental Science, North Maharashtra University, Jalgaon on 1<sup>st</sup> and 2<sup>nd</sup> February, 2010.
52. P. P. Loni, A. K. Patil, and **P. D. Raut**, 2010 “ Studies on groundwater quality from different wards of Kolhapur city” in National Conference on Natural Resources Management and Sustainable Development organized by School of Earth and Environmental Science, North Maharashtra University, Jalgaon on 1<sup>st</sup> and 2<sup>nd</sup> February, 2010.
53. D. D. Biraje, A. K. Patil and **P. D. Raut**, 2010 “Studies on status of solid waste management of Kolhapur city” in National Conference on Natural Resources Management and Sustainable

Development organized by School of Earth and Environmental Science, North Maharashtra University, Jalgaon on 1<sup>st</sup> and 2<sup>nd</sup> February, 2010.

54. Loni P.P., Patil A.K. and **Raut P. D.** 2010 “Studies on the ground water quality from six villages of Hatkanangale taluka, Dist. Kolhapur” presented at National Conference on “Groundwater Resource Development and Management in Hard Rocks” at Department of Geology, University of Pune, Pune during February, 2010.
55. Chonde Sonal G and **Raut P. D.** 2011 “Nylon 6 Degradation by Lignolytic Fungus *Phanerochaete Crysosporium*” 98<sup>th</sup> Indian Science Congress held at SRM University, Chennai during 3-7<sup>th</sup> January, 2011.
56. Lad R. J., Patil V. N. and **Raut P. D.** 2011 “Study of Noise Pollution during Deepawali Festival in Kolhapur city of Maharashtra India” 98<sup>th</sup> Indian Science Congress held at SRM University, Chennai during 3-7<sup>th</sup> January, 2011.
57. Chonde Sonal G and **Raut P. D.** Studies on Degradation of synthetic polymer Nylon 6 & 66 by Bacterial Culture *Pseudomonas aerogenosa*, conference on Natural Resource Management for Sustainable Development. (NRMSD-2010) organized by Department of Environmental Science NMU, Jalgaon on 1st and 2<sup>nd</sup> Feb. 2010.
58. Chonde Sonal G and **Raut P. D.** , TGA and IR study of Nylon 6 degradation by lignolytic fungus, *Phanerochate crysosporium* , Recent trends in Life Science, organized by Department of Biochemistry, Shivaji University, Kolhapur. 4<sup>th</sup> -5<sup>th</sup> March 2011.
59. Jadhav AS and **Raut P.D.** 2012 Role of Higher education institutions in environmental protection Workshop for University Teachers, Shivaji University, Kolhapur May 2012
60. Jadhav AS and **Raut P. D.** 2012 Role of academic institutions with NGOs in environmental protection, Workshop for University Teachers, Dept of Economics, SUK May 2012
61. Chonde S.G., Pawar Nilambari and **Raut P. D.** Study of degradation of synthetic polymer Nylon 6 and Nylon 66 by *pseudomonas aerogenosa* NCIM 2242 and *Saccharomyces cerevisiae* National Conference On Emerging technologies for sustainable development (NCET 2012) 27-28 Dec. 2012 Department of Technology Shivaji University, Kolhapur.
62. Chonde S.G. and **Raut P. D.** Study of COD reduction of textile effluent by using Fenton’s reagent National Conference On Emerging technologies for sustainable development (NCET 2012) 27-28 Dec. 2012 Department of Technology Shivaji University, Kolhapur. Department of Technology Shivaji University, Kolhapur.
63. Patil VN, Patil AS and **Raut P. D.** 2013 Ecological and economical assessment of Paddy (*Oryza sativa*) cultivation in some villages of Shahuwadi tahsil of Kolhapur district of

Maharashtra, India, 100<sup>th</sup> Indian Science Congress, 3<sup>rd</sup> to 7<sup>th</sup> Jan 2013. Indian Science Congress Association.

64. Loni P. P., Jadhav A.S, **Raut P. D.** Status of lakes in the city of Kolhapur, Maharashtra National Conference on 'Wetlands and Water' 1<sup>st</sup>-2<sup>nd</sup> Feb, 2013, Uttara Kannada Jilla Vijnana Kendra, Karwar.
65. Gargate A.V. and **Raut P. D.** Avifauna of the coastal wetlands around Malwan, Maharashtra National Conference on 'Wetlands and Water' 1<sup>st</sup> – 2<sup>nd</sup> Feb, 2013 Uttara Kannada Jilla Vijnana Kendra, Karwar.
66. Ingavale R.R., Jadhav V.V. and **Raut P. D.** Studies on Watershed Management in Shivaji University campus, Kolhapur. National Conference on 'Wetlands and Water' organized by Uttara Kannada Jilla Vijnana Kendra, Karwar 1<sup>st</sup>-2<sup>nd</sup> Feb, 2013
67. Chonde S.G., Pawar Nilambari and **Raut P. D.** Antibacterial activity of medicinal plants: Ocimum Sanctum Linn.(Tulasi), Eugenia Caryophyllata (Clove) and Vetiveria Zizanioides (Wala) and its application in water purification, National Conference Sacred Groves as a Repository for Ethno medicinal Plants 1-2 Feb, 2013 Rajaram College, Kolhapur.
68. Patil Y.Y., Chougankar M.P. and **Raut P. D.** Baseline Demographic Survey around Proposed Jaitapur Nuclear Power Plant, Maharashtra, India Eighteenth National Symposium on Environmental (NSE-18), 11-12 March 2013. Department of Chemical Engineering JNTUA College, Anantapur , DAE-BRNS, Govt. of India.
69. Jadhav V.V., Jadhav A.S. and **Raut P. D.** EduSAT: Satellite base system of education, case study of Shivaji University, An Interdisciplinary National Conference on Information and Communication Technology for Education (ICTE-2013), Held on 4<sup>th</sup> and 5<sup>th</sup> March 2013. Department of Education and Department of Electronics, Shivaji University, Kolhapur.
70. Jadhav V.V., Ingawale R.R., Jadhav A.S. and **P. D. Raut** Impact of traffic related air pollution on lung function capacity, IITM-WMO seminar on Metropolitan Air Quality Forecasting & Services (SAFAR), held at IITM, Pune India on 30<sup>th</sup> August 2013, IITM, Pune India.
71. Wali B.S., Patil V.N. and **Raut P.D.** Lung volume study of female workers in tobacco processing units, Concepts and New Trends in Aerobiology & Allergy (CANTAA) held on 29-20 Nov., 2013, at Bharatiya Vidya Bhavan's Hazarimal Somani College of Arts and Science & Jayaramdas Patel College of Commerce & Management Studies, Mumbai India.
72. Kadam G.H., Dhapale S.S., Jadhav V.V. and **Raut P.D.** Pulmonary Function Test (PFT) variables in flour mill workers: a case study of Kolhapur city, Concepts and New Trends in Aerobiology & Allergy (CANTAA) held on 29-20 Nov., 2013, at Bharatiya Vidya Bhavan's Hazarimal Somani College of Arts and Science & Jayaramdas Patel College of Commerce & Management Studies, Mumbai India.

73. **Raut P. D.** “Studies on health and Hygiene in slums in Kolhapur City”, in Two day national seminar on “Environmental issues and Social Exclusion” was organized by Centre for the study of social exclusion and inclusive policy, Shivaji University Kolhapur on 11<sup>th</sup> and 12<sup>th</sup> of February 2014.
74. Padalkar R.C. and **Raut P.D.** Study of Soil Carbon sequestration potential of Shivaji University Campus. National Conference on Energy and Environment (NC2E) During 20<sup>th</sup> to 22<sup>nd</sup> Feb. 2014 , organized by University of Pune , Pune, India.
75. Dhawal S. J. and **Raut P. D.** Natural Ambient radiation Studies around Jaitapur Nuclear Power plant site, Maharashtra, held on 9<sup>th</sup> – 10<sup>th</sup> December 2016, at
76. V.V. Jadhav, A.K. Patil, C.A. Chandagade and **P.D. Raut**, “Biodegradation of endocrine disrupting compound Bisphenol A (BPA) by isolated bacterial cultures” in National Conference on “Monitoring and Assessment of Natural Resources for Sustainable Management”, MANRSM-2017 on 23- 24 January, 2017 organized by School of Environment And Earth Sciences, North Maharashtra University, Jalgaon.
77. Chougule A.A., Bhosale P.R., Kadam G.H., Thakur V.T.\* and **Raut P.D.**” Physico-chemical Analysis of Pressmud and its Evaluation as Compost on Chickpea variety”, in National Conference on “Monitoring and Assessment of Natural Resources for Sustainable Management”, MANRSM-2017 on 23- 24 January, 2017 organized by School of Environment And Earth Sciences, North Maharashtra University, Jalgaon.
78. Kadam G.H., Chougule A.A., Thakur V.T.\* and **Raut P.D.**” Toxicological study of AgNP on gills of crab, *Paratelephusa jacquemontii*”, in National Conference on “Monitoring and Assessment of Natural Resources for Sustainable Management”, MANRSM-2017 on 23- 24 January, 2017 organized by School of Environment And Earth Sciences, North Maharashtra University, Jalgaon.
79. Gaikwad N. B., Jadhav A. S., **Raut P. D.** (2015) “Study of ecotourism potential of Kolhapur city” National Conference on “Resource Planning and Development: Indian Scenario” jointly organized by Department of Geography and Department of Environmental Science, Shivaji University, Kolhapur
80. Chougule A.A., Bhosale P.R., Kadam G.H., Thakur V.T.\* and **Raut P.D.**” Physico-chemical Analysis of Pressmud and its Evaluation as Compost on Chickpea variety”, in National Conference on “Monitoring and Assessment of Natural Resources for Sustainable Management”, MANRSM-2017 on 23- 24 January, 2017 organized by School of Environment And Earth Sciences, North Maharashtra University, Jalgaon.
81. Kadam G.H., Chougule A.A., Thakur V.T.\* and **Raut P.D.**” Toxicological study of AgNP on gills of crab, *Paratelephusa jacquemontii*”, in National Conference on “Monitoring and Assessment of Natural Resources for Sustainable Management”, MANRSM-2017 on 23- 24

January, 2017 organized by School of Environment and Earth Sciences, North Maharashtra University, Jalgaon

82. Kadam G.H., Chougule A.A., and **Raut P.D**, Paper presented on “Spatial Distribution of Insects from Order Lepidoptera in and around Proposed Nuclear Power Plant Site at Jaitapur, Maharashtra.” In National Conference on “Recent trends and Advances in Zoology (RAIZ-18)” held on 13<sup>th</sup> January 2018 at Raje Ramrao Mahavidyalaya, Jath, Sangli (M.S.)
83. Chougule A.A., Kadam G.H., and **Raut P.D**, Paper presented on “Study of avifauna around proposed nuclear power plant site at Jaitapur, Maharashtra, India.” In National Conference on “Recent trends and Advances in Zoology (RAIZ-18)” held on 13<sup>th</sup> January 2018 at Raje Ramrao Mahavidyalaya, Jath, Sangli (M.S.)

## 8. Research Schemes and Projects:

### 1. Major Research Projects:

Sr. No.	Title of Project	Funding Agency	Funds Received	Date of Starting	Worked as Chief Investigator/Co-investigator
1.	Studies on demographic surveillance around JNPP site covering a distance of 30 km from the site	DAE – BRNS, Mumbai	34,64,700	1/04/09	Principal Investigator
2.	Baseline radioactivity in environmental matrices around proposed Jaitapur nuclear power plant	DAE – BRNS, Mumbai	43,27,000	1/04/09	Co-Investigator
3.	National Ambient Air Quality Monitoring project for Kolhapur city.	MPCB, Mumbai	81,59,983	1/01/07	Principal Investigator
4.	GIS based studies on habitat utilization in Radhanagari WLS, Maharashtra.	MoEFCC, New Delhi	27,26,440	12/12/11	Principal Investigator
5	Geo-medical studies of Ground water quality in Karveer Taluka District Kolhapur	UGC, New Delhi	9,54,600	1/2/11	Principal Investigator
7.	Baseline survey of flora and fauna around proposed	DAE-BRNS,	24,88,050	6/12/13	Principal

	nuclear power plant site at Jaitapur, Maharashtra	Mumbai			Investigator
8.	Nationwide environmental gamma radiation monitoring using TLDs	BARC, Mumbai	12,03,400	10/10/14	Principal Investigator
<b>Total</b>			<b>Rs. 2,33,24,173.00</b>		

## 2. Minor Research Projects:

Sr. No.	Title of Project	Name of Funding Agency	Amount	Duration	Remarks
1.	Biodiversity of copepods population on Mumbai coast.	University of Mumbai	25,000	One year 2003	Successfully Completed
2	Project writing for B. A. Part - 2 distance learning students	Centre for Distance Education, Shivaji University, Kolhapur	20,000	One year 2008	Successfully Completed
3.	Implementation of Environmental Studies SIM at undergraduate level for distance education students	Centre for Distance Education, Shivaji University, Kolhapur	20,000	One year 2009	Successfully Completed
4	Edu- SAT	DST, New Delhi	1,50,000	Continuous	Ongoing
5.	Study of forest fire prone areas forests of Kolhapur district	Forest Department, Govt. of Maharashtra.	2,00,000	One year 2019	Ongoing

**9. EIA Expert** : QCI-NABET Accredited EIA Expert as **Category A** for functional Area “Ecology and Biodiversity” (EB).

**Work carried out for the various clients as a Ecology and Biodiversity Expert for EIA Projects**

Sr. No.	Name of the Client	EIA with capacity and category of the project, where involved as FAE
1.	Brima Sagar Maharashtra Distilleries Ltd., Shreepur, Maharashtra 413112	Expansion of Distillery capacity from 35 KLPD to 65 KLPD (cat: A)

2.	Godavari Bio-refineries Ltd., A/P: Sakarwadi, Dist: Ahmednagar, Maharashtra, India. Pin 413 708.	Expansion of Acetaldehyde production from 1500 MT/Month to 2100 M/Month and Ethyl Acetate from 5400 MT/Month to 8700 MT/Month (cat: A)
3.	Utopian Sugars Ltd., Pant Nagar, Kacharewadi, Mangalvedha, Solapur - 413305	Establishment of Distillery to produce 30 KLD rectified spirit / 30 KLD ENA / 30 KLD Ethanol and 1 MW Co-generation power
4.	Shri. Datta Shetakari Sakhar Karkhana Ltd, Dattanagar, Tal: Shirol Dist: Kolhapur - 416 120.	Expansion of Sugar factory capacity from 7500 TCD to 9000 TCD (Cat: B)
5.	Krishna SSK Niyamit, Athani Vishnuanna Nagar, Post Navalihal, Athani, Belgaum, Karnataka 591234	Expansion of Sugar factory capacity from 4000 TCD to 5500 TCD and 12 MW to 27 MW (Cat: B)
6.	Sahakar Maharshi Shankarrao Mohite Patil SSK Ltd. Tal. Malshiras, Dist. Solapur. Pin- 413 118	Expansion of Sugar factory capacity from 7500 TCD to 10000 TCD (cat: B)
7.	Sahyadri SSK Ltd., Yashwantnagar, Tal. Karad, Dist.Satara, Maharashtra 415110 Category: A	Expansion of sugar crushing capacity from 7500 TCD to 13200 TCD, Distillery capacity from 45 KLPD to 145 KLPD and Establishment of 24 MW Co-generation power plant (Cat: A)
8.	Anshul Specialty Molecules Pvt. Ltd.	Change in product mix of Synthetic Organic Chemicals (Cat: A)
9.	Deepak Chemtex Pvt. Ltd. Category: A	Expansion of Dyes and Dye Intermediates (Cat: A)
10.	Kagal - Hatkanangale Common Effluent Treatment Plant	Inventory - 2014
11.	Ichalkaraji Common Effluent Treatment Plant	Inventory - 2014

#### 9. Books, Manuals etc. published or edited:

1. Environmental Studies for undergraduate students,  
English medium Published by Shivaji University, Kolhapur. 10,000 copies per year
2. Environmental Studies for undergraduate students,

Marathi medium Published by Shivaji University, Kolhapur.	35,000 copies per year
3. Self Instructional Material (SIM) on Environmental Studies for B. A. B. Com Part II English medium.	2,000 copies per year
4. Published by Centre for Distance Education, Shivaji University, Kolhapur.	
5. Self Instructional Material ( SIM ) on Environmental Studies for B. A. & B. Com Part II Marathi medium, Published by Centre for Distance Education, Shivaji University, Kolhapur.	10,000 copies per year
6. Global Warming Shivaji University, Kolhapur Press	5,000 copies
7. Souvenir of Panchganga Pollution Prevention for Gramsevak and Sarpanch.	500 copies
8. Environmental Status Report (ESR) 2008-2009 Of Kolhapur Municipal Corporation	200 copies
9. Revised book on Environmental studies, for 2 <sup>nd</sup> year BA, BCom and BSc students of Shivaji University, Kolhapur.	
10. Survey Report of “Drought Prone Regions of Sangali District” For Collectorate, Sangali.	1000 copies
11. “Green Audit – 2013 Report” of Shivaji University, Kolhapur.	
12. Pre-feasibility Report of Ghodawat Jaggery Project at Chipri, Dist. Kolhapur.	
13. “Green Audit – 2016 Report” of K. B. Patil College, Pandharpur.	
14. “Green Audit – 2018-19 Report” of Shivaji University, Kolhapur.	
15. “Green Audit – 2018-19 Report” of Chandrabai-Shantappa Shendure College, Hupari Dist. Kolhapur.	
16. “Green Audit – 2018-19 Report” of Arts,Science &Commerce College, Ramanandnagar (Burl), Dist. Sangli.	
17. “Green Audit – 2018-19 Report” of Shri. Raosaheb Ramrao Patil Mahavidyalaya, Savlaj, Dist. Sangli.	
18. “Green Audit – 2018-19 Report” of Laxmibai Bhaurao Patil Mahila Mahavidyalaya, Solapur.	
19. “Green Audit – 2018-19 Report” of Prof. Dr. N. D. Patil Mahavidyalaya, Malakapur, Tal. Shahuwadi, Dist: Kolhapur.	
20. Green Audit Report 2018-19 of Shivaji University, Kolhapur.	
21. Biodiversity Report 2018-19 of Shivaji University, Kolhapur.	

**9. Member of Organization:**

1. Vice President, PTA, Cardinal Gracias High School, Bandra (East), Mumbai- 400 051.
2. Life Member, Indian Science Congress Association, Kolkata.



3. Life Member, Chireptological Society of India, Department of Life Sciences, Mumbai University , Mumbai- 400 098.
4. Executive Member, Indian Society for Comparative Animal Physiology, Tirupati, Tamilnadu.
5. Life member, Society of Reproductive Biology and Comparative Endocrinology, Chennai.
6. Life member, Academy of Environmental Biology, Lucknow.
7. Life member, Society of Fishery Technology, Cochin.
8. Member, Bombay Natural History Society, Mumbai.
9. Member, World Wide Fund, Kolhapur region.
10. Member, Important Bird Conservation Areas, BNHS, Mumbai.
11. Chairman, Ad hoc, BOS, Environmental Science, Shivaji University, Kolhapur.
12. Member, BOS, Environmental Science, North Maharashtra University, Jalgaon.
13. Member, BOS, Environmental Management, SCIBER, Kolhapur.
14. Member, CETP Expert Committee, Maharashtra Pollution Control Board, Maharashtra State.

**15. 10. Honours / Rewards:**

- Honors** :
1. Vice President, Parent Teacher Association, Cardinal Gracias High School, Bandra (East ), Mumbai- 51.
  2. Member, Management Committee, Cardinal Gracias High School, Bandra ( East ), Mumbai – 400 051.
  3. Gold Medal for organizing a National Conference from Academy of Environmental Biology, Lucknow.
  4. Member of Senate, Shivaji University, Kolhapur.
  5. I/c Dean, Interdisciplinary Studies, Shivaji University, Kolhapur
  6. Best Teacher Award By Shiavji University, Kolhapur on 18<sup>th</sup> Nov 2017.
  - 7.”Vasundhara Gourav” Award by Kirloskar Oil Engines 2<sup>nd</sup> October, 2018.

**11. Fellowship / Scholarships:**

- i. **Scholarships** : Dakshina Fellowship of Govt. of Maharashtra for PG study.
- ii. **Fellowships** :
  1. UNO – UNESCO travel fellowship for International course on Mangrove Biodiversity.
  2. INSA Fellowship for course on Animal cell culture at NIV, Pune , 2004.
  3. Fellowship of Academy of Environmental Biology (FAEB)

**EXTENSION WORK CARRIED OUT:**

- a) **Help rendered in College Administration by membership of various committees:**

1. Computer Maintenance Committee, the Institute of Science, Mumbai.
2. Computerization of Payroll, The Institute of Science, Mumbai.
3. Purchase committee in purchase of Instruments, Equipments, and Chemicals etc. The Institute of Science, Mumbai.
4. Preparation of web site, The Institute of Science, Mumbai.
5. Organized Zoological Excursions of students to Laksha dweep, Shimla, Kulu and Manali Himalayan National Park etc. Preparation of web site, the Institute of Science, Mumbai.
6. Arranged visits of M. Sc. students to Industries and Research Laboratories as CIFE, CRI Mumbai.
7. NAAC steering committee member, Preparation of web site, The Institute of Science, Mumbai.
8. Canteen committee member, The Institute of Science, Mumbai.
9. Staff in-charge, Zoological Colloquium, Zoology Department, The Institute of Science, Mumbai.
10. Admission Committee, The Institute of Science, Mumbai.
11. Member, Non-teaching staff grievances committee, the Institute of Science, Mumbai.
12. Chief Rector, Boys and Girls hostels, Shivaji University, Kolhapur.
13. Deputy Chairman, Shivaji University Central Consumer Society, Kolhapur.
14. Purchase Committee member, Shivaji University, Kolhapur.
15. Head, Department of Environmental Science, Shivaji University, Kolhapur.
16. In-charge Head, Department of Geography, Shivaji University, Kolhapur from 5<sup>th</sup> August, 2011 to 5<sup>th</sup> February, 2012.
17. Member, NAAC committee, Shivaji University, Kolhapur.
18. Member National Science Day Celebration committee 2014 at Shivaji University, Kolhapur.
19. Member of organizing committee on “International Seminar on Changing Scenario in Angiosperm systematics”, 2007 at Dept. of Botany, Shivaji University, Kolhapur.
20. In-charge Head, Department of Zoology, Shivaji University, Kolhapur.
21. Chairman, Departmental Research Committee, Dept. of Env. Science
22. Chairman, Campus Beautification Committee, Shivaji University Kolhapur.
23. Chairman, Departmental admission Committee, Dept. of Env. Science, Shivaji University Kolhapur.
24. Chairman, Departmental Research Committee, Dept. of Geography, Shivaji University Kolhapur.
25. Member of DRC at Department of Biotechnology, Shivaji University, Kolhapur.
26. Member of Thievery Committee of, Shivaji University, Kolhapur.
27. Member of committee for Navigation App for, Shivaji University, Kolhapur.
28. Member of 52nd convocation ceremony clothes committee for, Shivaji University, Kolhapur.
29. Member of committee for Enquiry of Synthetic Track, Shivaji University, Kolhapur.
30. Member of committee for Designing of Statue of Shivaji Maharaj, Shivaji University, Kolhapur.
31. Member of Editorial committee for Shivasandesh, Shivaji University, Kolhapur.

32. Member, BOS, Environmental Science, University of Mysore.
33. Chairman, Co-ordinating committee in Food Science & Technology.
34. Chairman, Co-ordinating committee in Geography & Meteorology.
35. Member, Governing Council, Kolhapur Institute of Technology, Kolhapur.
36. Member, BOS Chikitsak Samuha's Sir Sitaram and Lady Shantabai Parkar College of Arts and Science and V. P. Varde College of Commerce & Economics.
37. Member, RRC, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon.
38. Janardan Bhagat Shikshan Prasarak Sanstha's Changu Kana Thakur Arts, Commerce and Science College, New Panvel.
39. Chairman, SRPD, Shivaji University, Kolhapur.
40. Member, BOS, Sir Sitaram and Lady Shantabai Patkar College of Arts and Science and V. P. Varde College of Commerce & Economics, Mumbai.
41. Chairman, Finance & Accounts subcommittee, Shivaji University, Kolhapur.
42. Coordinator, Research Initiation Scheme, Shivaji University, Kolhapur.
43. Member, IQAC, Shivaji University, Kolhapur.
44. Chairman, New APT format committee, Shivaji University, Kolhapur.
45. Chairman, Purchase committee, Shivaji University, Kolhapur.
46. Chairman, Technical committee, Shivaji University, Kolhapur.
47. Member, Project Monitoring Unit committee, Shivaji University, Kolhapur.

**b) Acted as Resource Person in Seminars, Workshops and Conferences:**

1. Resource person in the U.G. C. sponsored refresher course organized by Zoology Department, The Institute of Science, Mumbai in February, 1999.
2. Resource person in the U.G. C. sponsored Biotechnology workshop "Modern Techniques in Biotechnology" organized by Biotechnology Department of the Institute of Science, Mumbai from 11<sup>th</sup> and 12<sup>th</sup> of November, 2003.
3. Resource person in the work shop for Environmental Studies at K.W. College, Sangli, 2005.
4. Resource person in the work shop for Environmental Studies at Adult Education Department, Shivaji University, Kolhapur, 2006.
5. Resource person work shop for teachers and students on "Project writing" under lead college scheme at Yadav College, Pethvadgaon, 2007.
6. Resource person for Refresher course in "Environmental Studies" held at North Maharashtra University, Jalgaon, 2006.
7. Resource person for Refresher course in "Environmental Studies" held at North Maharashtra University, Jalgaon, 2007.

8. Invited lecture for Master of Social Work students and villagers of Haldi Kandgaon on “Water Management” organized by Department of Social Welfare, SCIBER, Kolhapur.
9. Invited lecture on “Solid waste management” under National Environmental Awareness Campaign (NEAC) at Boys Hostel, Shivaji University, Kolhapur, 2006.
10. Invited lecture on “Solid waste management and role of public” under National Environmental Awareness Campaign (NEAC) at Girls Hostel, Shivaji University, Kolhapur.
11. Invited lecture on “Water problems of Kolhapur” at Shahu Smarak Bhavan organized by Patrakar Sangh, Kolhapur, 2008.
12. Invited lectures on Environmental Impact Assessment at Commerce College Kolhapur in Lead College Activity 4/12/2008.
13. Refreshers course in Environmental Science in Dr. Babasaheb Ambedkar Marathwada University, Aurangabad 2009.
14. Refreshers course in Environmental Science at North Maharashtra University, Jalgaon 2009.
15. Refreshers course in Environmental Science at Pune University, Pune 2009.
16. Invited lecture on Global Warming and Agricultural Management at DKTE Inchalkaranji on Global Warming and Agriculture. 2009.
17. Invited lecture on Climate Change and fisheries in National conference on Climate Change and Economic Development” at Department of Economics, Shivaji University Kolhapur 2009.
18. Invited lecture on Environmental Impact Assessment in Department of Zoology, Shivaji University, Kolhapur in NET coaching workshop 2009.
19. Invited lecture on “Environmental Assets and Threats” at R. B. Madkholkar Mahavidyalaya Chandagad 2009.
20. Invited Lecture on “Climate Change, Agriculture and Sustainable Development” for refreshers course in Environmental Science, 2009.
21. Invited lecture on Global Warming for college students organized by Department of Adult and Continuing Education in Various colleges 2010 ( 5 Collages of Shivaji University Area).
22. Chaired the technical session at UGC sponsored National Seminar Vision 2025 – Technological Developments in Biological Sciences organized by Patkar-Varde College Department of Biological Sciences, Mumbai on 17<sup>th</sup> to 19<sup>th</sup> January, 2011
23. Delivered invited lecture on “Oxidative stress, Genotoxicity and Biodegradation of a plasticizer, Bisphenol A” in UGC Sponsored National Seminar on Advances in Environmental Sciences and Technology organized by Department of Environmental Science and Department of Chemistry, Vivekananda College, Thakurpukur, Kolkata on 5<sup>th</sup> and 6<sup>th</sup> February, 2011.
24. Delivered lecture in program of “Commission for Scientific or Technical Terminology”, on 28/10/2012.

25. Worked as a Chairperson and delivered a lecture in the national conference on “Emerging Technologies for Sustainable Developments”, held on 27<sup>th</sup> & 28<sup>th</sup> Dec. 2012.
26. Delivered invited lecture on wildlife management on Orientation programme sponsored by UGC held at SGB Amravati University during 24<sup>th</sup> to 22<sup>nd</sup> Oct 2012.
27. Subject expert at national seminar on importance of applied microbiology for globe protection at YCIS College, Satara during 11<sup>th</sup> and 12<sup>th</sup> Jan. 2013.
28. Chaired technical session at Emerging technologies for sustainable development organized by Dept. Of Technology, Shivaji University, Kolhapur on 27<sup>th</sup> and 28<sup>th</sup> Dec. 2012.
29. in Shivaji University campus” at National conference on wetlands and water organized by Karnataka Science and Technology Academy, Bangalore and Uttar Kannada Jilla Vijnana Kendra, Karwar on 1<sup>st</sup> and 2<sup>nd</sup> Feb. 2013
30. Chaired technical session at National conference on “Challenges and opportunities in Life sciences “organized by Department of Biotechnology at Shivaji University, Kolhapur during 8<sup>th</sup> and 9<sup>th</sup> Feb 2013.
31. Delivered invited lecture on “Global warming and its effects” at One day workshop organized by Mahavir college of Arts and commerce, Kolhapur on 12<sup>th</sup> Feb.2013.
32. Delivered invited lecture on “Global warming and its impact on agriculture” at One day national seminar organized by Anjuman Arts, Science and Commerce college, Dharwad during on 11<sup>th</sup> March.2013.
33. Delivered invited lecture on “Climate change and its impact on biodiversity” at UGC sponsored National Conference on “Environment and Biodiversity: Challenges, Conservation and Preservation” at Patangrao Kadam College, Sangalwadi, Sangli on 7<sup>th</sup> September, 2013.
34. Delivered invited lecture on “Ambient air quality monitoring- A case study of Kolhapur city,Maharashtra” at “Concepts and New Trends in Aerobiology & Allergy” (CANTAA) held on 29-20 Nov., 2013, at Bharatiya Vidya Bhavan's Hazarimal Somani College of Arts and Science & Jayaramdas Patel College of Commerce & Management Studies, Mumbai India.
35. Chaired the technical session at “Concepts and New Trends in Aerobiology & Allergy “ (CANTAA) held on 29-20 Nov., 2013, at Bharatiya Vidya Bhavan's Hazarimal Somani College of Arts and Science & Jayaramdas Patel College of Commerce & Management Studies, Mumbai India.
36. Chaired the technical session at International Conference on “Biosciences with Special Reference to Environmental Issues” (ICBEI-2013) held on 19<sup>th</sup> to 21<sup>st</sup> Dec 2013 held at Department of Zoology, Shivaji University, Kolhapur (MH) India.
37. Delivered a lecture in workshop under UGCs NET coaching scheme organized by Department of Biotechnology, Shivaji University, Kolhapur, on 12-18 Dec. 2013.

38. Delivered invited lecture on “Environmental pollution and protection” at training programme organized by MSBTE at Govt. polytechnic, Kolhapur during 6<sup>th</sup> to 11<sup>th</sup> Jan. 2014.
39. Delivered invited lecture on “Ecosystem and Biodiversity” at training program organized by MSBTE at Govt. polytechnic, Kolhapur during 6<sup>th</sup> to 11<sup>th</sup> Jan. 2014.
40. Resource person in all India seminar on “Innovative approach for low cost treatment of Water and Wastewater”, on 20-21 February, 2014 and it is organized by The Institution of Engineers (India), Kolhapur Local Centre in collaboration with Department of Technology, Shivaji University Kolhapur.
41. Delivered invited lecture on “Role of RS and GIS in Environmental management” at three day Workshop on Advance tools and Techniques in Geoinformatics sponsored by UGC on 5<sup>th</sup> and 7<sup>th</sup> March 2014 at Department of Geography, Shivaji University, Kolhapur.
42. Delivered invited lecture on “Application of Remote Sensing and GIS in Environmental Studies” at lecture session on Geospatial Technology at Parvatibai Chowgale College of Arts and Science, Margaon (Goa) on 27<sup>th</sup> January 2014.
43. Chaired the technical session at National Seminar on Environmental issues and Social Exclusion held at Centre for the study of Social exclusion and inclusive policy, Shivaji University, Kolhapur (MH) India during 11<sup>th</sup> and 12<sup>th</sup> February 2014.
44. Delivered invited lecture on “Biodiversity” at scientific poster and model competition at Changu Kana Thakur Arts, Commerce and Science College, New Panvel.
45. Chaired the technical session at National Conference on Sustainability, Society and Environment (SSE 2014) Organized by Ratnagiri, Sub centre of University of Mumbai on 14<sup>th</sup> March 2014.
46. Invited lecture on Water Conservation at National Conference on Sustainability, Society and Environment (SSE 2014) Organized by Ratnagiri, Sub centre of University of Mumbai on 14<sup>th</sup> March 2014.
47. Resource person in Commission for Scientific and Technical terminology, Ministry of Human Resource Development, Department of higher Education New Delhi, national Seminar on “Biological Terminology in regional language Marathi” organized by Sangola College , Sangola, held on 23, 24, July 2014.
48. Participated as a Resource person and delivered a key note addresss in International Conference on Recent Trends and Challenges in Science and Technology-(RTCST2014), on 20-22, August 2014, at Padmashri. Vikhe Patil College of Arts, Science and Commerce, Pravaranagar, Ahemadnagar.
49. Chief Guest and resource person in inauguration ceremony of teachers science association at Shri. Chh. Shahu Jr. College of Education, Rukadi on 16/10/2014.

50. Delivered lecture on “Environmental Science and Writing of science research project” in “Research Project Writing Workshop”, at Night College of Arts and Commerce, Kolhapur, held on 9<sup>th</sup> Oct 2014,
51. Actively participated and delivered a plenary lecture on “Remote Sensing and GIS”, in National Conference on Environmental Biotechnology, on 29<sup>th</sup>-30<sup>th</sup> Dec. 2014, at Lal Bahaddur Shashtri, College, Satara.
52. Resource person and Chaired a session in International Conference on “Ethical Prospects: Economy, Society and Environment (ICEPESE-2015)”, on 13<sup>th</sup> and 14<sup>th</sup> March 2015 organized by Ratnagiri Sub-centre, University of Mumbai In association with ICSSR-WRC, Mumbai.
53. Two lectures delivered on 2/6/2015, to the participants of refresher course in Environmental Studies, at Dr. BAM University, Aurangabad.
54. Invited Lecture on ‘Disaster Management’ at D. R. K. College of Commerce, Kolhapur on 5/10/2015.
55. Delivered invited lecture in the ‘Special Lecture series’ at University of Mysore.
56. Delivered invited lecture at Shri. Venkatesh Mahavidyalaya, Ichalkaranji on ‘ Food security and Environment’ held on 19<sup>th</sup> Jan 2016.
57. Chief Guest and delivered a lecture in Inauguration function One Day National Seminar organized by dept of Geography, History, Env. Studies and Education, Dahiwadi College Dahiwadi held on 9<sup>th</sup> March 2016.
58. Invited lecture on Natural Resource Planning at UGC sponsored seminar on “Geospatial Perspective of Natural Resources in India”. On 28<sup>th</sup> and 29<sup>th</sup> July 2016 in Krantsinh Nana Patil College, Walwa.
59. Delivered invited lecture on ‘ Natural Resource Management’ in Kirloskar Vasundhara Festival held on 24/09/2016.
60. Resource person in ‘Four week orientation programme’ organized by Shivaji University Department of Technology, Kolhapur held on 10/12/2016
61. Invited lecture on ‘Environment related issues’ organized by Shivaji University Department of Technology, Kolhapur held on 5/12/2016
62. Chaired the academic session at Twenty First Annual Conference and international seminar, theme of session was “Environmental Problems”, at Bhasha Bhavan, Shivaji university, 30<sup>th</sup> Nov. 2016 Kolhapur.
63. Delivered invited lecture on ‘Bee Keeping Development’ in “National Bee Keeping workshop” on 17<sup>th</sup> to 19<sup>th</sup> December 2016, jointly organized by Department of Environmental Science and Department of Zoology, Shivaji University, Kolhapur.

64. Chaired the session in the “International Conference on Biosciences with special Reference to Environmental Issues”(ICBET-2013) held during December 19-21, 2013 at Department of Zoology, Shivaji university Kolhapur.
65. Invited talk was given in National Conference on “Monitoring and Assessment of Natural Resources for Sustainable Management”, MANRSM-2017 on 23- 24 January, 2017 organized by School of Environment And Earth Sciences, North Maharashtra University, Jalgaon.
66. Delivered invited talk in “Multidisciplinary research in Geo-Environmental Studies for sustainable development (MRGESD-2017), held on 15<sup>th</sup> to 16<sup>th</sup> September, 2017 organized by School of Earth science, Solapur University Solapur.
67. Delivered invited talk in National Conference on ‘Religion and Environment with special reference to Jainism” from 23<sup>rd</sup>-24<sup>th</sup> February, 2016 jointly organized by Bhagwan Mahaveer Chair and Department of Environmental Science, Shivaji University Kolhapur.
68. Participated as a resource person in 1<sup>st</sup> National Conference on Materials and Environmental Science, organized by Yashwantrao Patil College, Solankur, held on Feb 15, 2017.
69. Participated as a resource person on One day workshop on “Biodiversity conservation and Awareness” on 4<sup>th</sup> October, 2017 at Shivaji University, Kolhapur. Maharashtra state Biodiversity Board, Nagpur,
70. Participated as a resource person national seminar on “Rainwater Harvesting for water Resource management and rational utilization of Natural Resources”, on 25 July, 2017. At Hon. Shri Annasaheb Dange Arts, Commerce and Science College, Hatkanangle.
71. Participated as a resource person in one day Workshop on “Importance of Environmental studies” on 5<sup>th</sup> Dec. 2017, at night college of arts and commerce, Ichalkarnaji
72. Participated as a resource person in National Conference on “Recent advances in Zoology” on 13<sup>th</sup> Jan 2018 at raje ramrao Mahavidyalaya, Jath, Dist.-Sangli.
73. Lectures in Refresher course in Environmental studies on 25<sup>th</sup> Nov. 2017 at Sant Gadge Baba Amravati University, Amravati.
74. Chief Guest and President for “A short term course in Basic computer and English Communication”, five day workshop on 18-22 Dec. 2017 at Shivaji University, Kolhapur.
75. Chaired the session in National workshop on “Emerging Trends in Information Technology in University Management” on 29<sup>th</sup> Aug. 2017, at Computer science, Shivaji University, Kolhapur.
76. Delivered invited talk in National Conference on “Rural Livelihood Models for Sustainable Development” on 14<sup>th</sup> and 15<sup>th</sup> September 2017.
77. Participated two days Brainstorming meeting for National Network Project on “Submarine Groundwater Discharge” on 31<sup>st</sup> Aug. and 1<sup>st</sup> sept. 2017 held at National Center for Earth Science Studies, Thiruvananthapuram.



78. Participated as a resource person and Lecture on “Innovative Research in Physical, Chemical and Life sciences”, on 24<sup>th</sup> Feb 2018. At M. H. shinde Mahavidyaly, Tisangi , tal Gaganbavada, Dist. Kolhapur.
79. Committee member of National conference on 24<sup>th</sup> Feb. 2018 At M. H. shinde Mahavidyaly, Tisangi , tal Gaganbavada, Dist. Kolhapur.
80. Participated as a resource person in National Conference 24<sup>th</sup> Feb. 2018 on At M. H. shinde Mahavidyaly, Tisangi , tal Gaganbavada, Dist. Kolhapur.
81. Participated as a resource person in “Environmental Protection” Lecture on “Importance and scope of Environmental Education”. On 5<sup>th</sup> Feb 2018 at Willingdon Collge, Sangli
82. Participated as a resource person in National Conference on solid and Hazardous waste management for sustainable development on 9<sup>th</sup> Nov. 2017, at CSIBER Kolhapur.
83. Chief Guest National Conference on “Transformation in commerce, Management, Economics and social science in Globalized Era”. On 23<sup>rd</sup> January 2018 at IMER campus, Kolhapur.
84. Participated as a resource person in National seminar on “Advance Technique and Development in Modern Agriculture of Drought Prone Region in Indian” on 6<sup>th</sup> Feb 2018 at Sangola College, Sangola.
85. Participated as a resource person in Pre IAS training centre, Kolhapur on 5-1-2018
86. Participated as a resource person in International conference on Advanced Research in Life Sciences”, at Sadguru Gadage Maharaj College, Karad on 27<sup>th</sup> and 28<sup>th</sup> March 2018
87. Participated member of Senate Workshop on “Functioning of Authorities” 5<sup>th</sup> April 2018, at Shivaji University, Kolhapur.
88. Member of organizing committee on National Conference on “Recent Advances in Agrochemicals and Integrated Pest Management” on 6<sup>th</sup> march 2018 at Shivaji University, Kolhapur.
89. Participated as two day National seminar on “Strengthening of Co-operative Sector in India” on 16<sup>th</sup> and 17<sup>th</sup> March 2018 at Shivaji University, Kolhapur.
90. Participated as a resource person in national level training program “Multidisciplinary Approach in Geo-environmental Impact Assessment” on 5<sup>th</sup> to 12<sup>th</sup> March 2018 at School of Earth Sciences, Solapur University, Solapur.
91. Participated as a resource person FDP on “Industrial Revolution through Green Technology”.
92. Participated as a resource person in State level conference at Abeda Inambar Senior College of Arts, Science and Commerce, Pune on Carbon Audit and Green Economics on 24<sup>th</sup> & 25<sup>th</sup> January, 2020.
93. Participated as a Chair person in International workshop on Geoinformatics for Disaster Management. On 4<sup>th</sup> August, 2018.

94. Participated as a resource person in National conference on Geo – Environmental Issues And Sustainable development on 20<sup>th</sup> & 21<sup>st</sup> September, 2019.
95. Participated as a resource person in National conference on “Swachh Bharat Abhiyan: Impact on Society and Environment”.
96. Participated as a resource person in National Workshop on Scientific & Technical terminology in Evs, Zoology & Biology.

**New courses developed:**

1. B. Sc. Environmental Science.
2. Post Graduate Diploma in Industrial Safety, Health and Environment (PGDISHE).
3. Diploma in Industrial Safety, Health and Environment (DISHE).
4. Diploma in Sericulture (Zoology)
5. P. G. Diploma in Sericulture (Zoology)

**Examiner of Practical Examination:** B. Sc. - Mumbai University, Mumbai  
M. Sc. - SRTM University, Nanded.  
M. Sc. - NM University, Jalgaon.  
M. Sc. - Nagpur University, Nagpur.

**Examiner of Theory Examination :** B. Sc. - Mumbai University, Mumbai  
M. Sc. - SRTM University, Nanded  
M. Sc. - NM University, Jalgaon.  
M.Sc. - Nagpur University, Nagpur.  
M.Sc. - Amravati University, Amravati.  
M.Sc. - Solapur University Solapur.  
UGC - NET Examination.  
SET - Examination

**Ph. D., M. Phil., M.Sc. Thesis evaluation:** Pune University, Pune  
SRTM University, Nanded.  
NM University, Jalgaon.  
Mumbai University, Mumbai  
Gulbarga University, Gulbarga.  
Dharwad University, Karwar Centre, Karwar.  
Kalyani Universit, Kalyani, WB  
Dr. BAMU Aurangabad, MH

Acharya N. G. Ranga Agricultural University, Hyderabad AP  
Karpagam University, Coimbatore, Tamil Nadu.  
Mysore University, Mysore.  
Solapur University, Solapur.  
Jammu University, Jammu  
Bhartidasan University, Trichanapalli

## **CO-CURRICULAR ACTIVITIES AND EXTRACURRICULAR ACTIVITIES:**

### **a) Co-curricular activities:**

1. Arranged lectures of various eminent personalities under Zoological Colloquium, the Institute of Science, Mumbai.
2. Arranged excursions to various places in India for M.Sc Part I and Part II students, the Institute of Science, Mumbai.
3. Arranged visit Cancer Research Institute, Mumbai.
4. Worked as judge for Science Exhibition for School Childrens.
5. Worked as judge for Homi Bhabha Science Scholar for School Childrens.
6. Worked as judge for Bal Shree (Science) for School Children's.
7. Participated in Blood donation camp organized by the Institute of Science, by
8. Worked as Judge for Science Exhibition at Taluka, District and state level.
9. Plantation of 400 trees on university campus with help of M.Sc. students.
10. Worked as a organizing committee member in International seminar on changing scenario in Angiosperm systematic, on 19<sup>th</sup>-21<sup>th</sup> November, 2007, organized by Department of Botany.
11. Worked as an organizing committee member in the national conference on "Emerging Technologies for Sustainable Developments", held on 27<sup>th</sup> & 28<sup>th</sup> Dec. 2012.
12. Worked as judge for poster presentation at National and International conferences at various places.
13. Worked as expert of Science and Technology Exhibition in NSD-2013 held on 28<sup>th</sup> February 2013.
14. Worked as Examiner in the AVISHKAR 2013-2014, Shivaji University/ Central Research Project Competition held at Department of Chemistry, Shivaji University, Kolhapur on 31<sup>st</sup> December, 2013.
15. Worked as judge for Awishkar Research festival 2013 at Shivaji University, Kolhapur.
16. Worked as a organizing committee member in National Science Day-2014, organized by department of Chemistry, on 28/2/2014.
17. Participated blood donation camp, organized by Sanjeevan Blood Bank, at Shivaji University Kolhapur, on 9<sup>th</sup> July 2014.
18. Worked as a examiner for paper setting in Solapur University Solapur, in Environmental Science, on 13/12/2014.
19. Donated Blood on 13/8/2015 to the Jeevandhara blood bank, Kolhapur.

20. Participated as a expert in Commission for scientific and technical terminology, at Lal Bahaddur Shashtri College of Arts, Science and Commerce, Satara on 24/01/2017.
- 21.

**b) Workshops and Courses Attended:**

1. Attended workshop on “Biotechnology” held at D. G. Ruparel College, Matunga, Mumbai on 14<sup>th</sup> October, 1996.
2. Attended and completed Refresher Course in Zoology conducted by Zoology Department, The Institute of Science, Mumbai under sponsorship of University Grants Commission from 17th February to 12th March 1999.
3. Attended and completed Orientation Program conducted by Academic Staff College, University of Mumbai from 21st February to 23rd March, 2000 under the sponsorship of University Grants Commission.
4. Attended a two day workshop on “Biosensors” conducted by Bhabha Atomic Center, Mumbai from 10th and 11th February, 2001.
5. Attended a two day workshop on “Electron Microscopy” conducted by Regional Sophisticated Instrumentation Center, Indian Institute of Technology, Powai, Mumbai from 27th and 28th, February, 2001.
6. Completed a fifteen days course “UNU – UNESCO International Course on Mangroves Biodiversity” from 5th to 19th, March, 2001 held at Center of Advanced study in Marine Biology, Annamalai University, Parangipettai, Tamil Nadu, India.
7. Attended a four days workshop on “Bioinformatics” from 2nd to 5th, July 2003 held at Ram Narayan Ruia College, Matunga, Mumbai.
8. Attended a one day workshop on “Bioinformatics” on 3rd Jan, 2004 held at Mithibai College, Vile Parle (East), Mumbai.
9. Completed a one month laboratory training in “Animal cell culture and Cell Biology” at National Institute of Virology, Pune from 1st June, 2004 to 31st June, 2004.
10. Attended a Five days training programme on “Isotope Tracer Techniques for Water Development and Management (CWRDM), at Kozikode, Kerala from 09th to 13th February, 2001.
11. Participated in program of “Commission for Scientific or Technical Terminology”, on 21/10/2010 at M.G.M. Biological and Information Technology Institute, Aurangabad.
12. Participated in International Conference on “Sustainable Water Resource and Management”, organized by Department of Environmental Science, Shivaji University, Kolhapur on 20-21 Dec. 2012.

13. Participated in workshop “A Brain Storming Session for Application of Technology for Sustainable Development in the State of Maharashtra”, organized by Maharashtra Academy of Sciences(MASc), Shivaji university Kolhapur (SUK), on 26<sup>th</sup> and 27<sup>th</sup> November, 2012.
14. Participated in the One day workshop on “Climate Change: Is it really happening?” organized by Gopal Krishn Gokhale College, Kolhapur, (Maharashtra) on 22<sup>nd</sup> December 2012.
15. Participated in National conference on “Blue Revolution: Water Sanitation and Recycling”, on 16<sup>th</sup> Jan. 2013 at Maharashtra Chamber of Commerce, Industry & Agriculture, Mumbai.
16. Participated in “8<sup>th</sup> Jal Sahitya Sammelan”, organized by “Bhartiya Jal Sanskruti Mandal”, on 19-20 Jan. 2013.
17. Participated in one day workshop on ‘Global Warming’, which was held on 12/02/2013, organized by Mahaveer Mahavidyalaya, Kolhapur.
18. Attended workshop on “Current Perspectives on Environmental protection” on 13 March 2013
19. Attended EduSAT National Workshop was held on 29-31 October 2013, at A national institute for science and technology communication Dept. of science and technology, govt. of India New Delhi.
20. Participated in UGC sponsored national conference on Concepts of New Trends in Aerobiology& Allergy (CANTAA) on Nov. 29-30, 2013 was organized by Department of Botany and Zoology of Bhartiya Vidya Bhavan’s Hazarimal Somani College of Arts and Science & Jayramdas Patel College of Commerce & Management Studies, Mumbai-400 007.
21. Participated in the one day workshop on “Outcome Based Modular Syllabus”, organized by IQAC under lead college scheme, held on 6<sup>th</sup> August 2014.
22. Attended workshop on “Isotope Tracer Techniques for Water Resources Development and Management” organized by “Centre for Water Resources Development and Management”, held on 09-13 August 2014.
23. Attended two day Residential workshop on Academic Autonomy on August 1-2, 2016, at Vidyanageri Mumbai University.
24. Attended Science academies’ lecture workshop on “Foundation lectures in Biology”, organized by Department of Zoology and Environmental Science at Shivaji University, Kolhapur 16-18 August 2017.
25. Attended Value Added Course on Ornamental Fish Breeding, Rearing and it’s Management organized by Department of Zoology and Environmental Science at Shivaji University, Kolhapur 23<sup>rd</sup> – 28<sup>th</sup> July 2018.
26. Attended one day national seminar on “Revised Accreditation Framework of NAAC” organized by Shivaji University, Kolhapur.

**c) Organizing Workshops:**

1. Organizing Secretary, “**SET Work Shop**”, 25<sup>th</sup> to 27<sup>th</sup> June, 2002 in collaboration with SET office, Pune.
2. Member, Organizing Committee National Symposium “**Ecophysiology and Organism impact**” Conference organized by Institute of Science – 1999.
3. Member, Organising Committee , International Conference “**Probing in Biological Systems**” Organised by Institute of Science- 2000.
4. Organising Secretary for workshop on “**Modern techniques in biotechnology** ” organized by the Institute of Science, Mumbai and sponsored by UGC from 11<sup>th</sup> and 12<sup>th</sup> of November, 2003.
5. Organising Secretary for workshop on “ **Computer maintenance and assembly**” organized by the Institute in collaboration with Western Regional Instrumentation Centre, Mumbai University, Mumbai from 25<sup>th</sup> to 30<sup>th</sup> August, 2003.
6. Member, Organising Committee, National Symposium “**Aquaculture : Prospects and Problems**” Conference organized by Institute of Science – 26<sup>th</sup> to 29<sup>th</sup> March, 2004
7. Organising Secretary of the National Conference on “ **Biodiversity, Biotechnology and Environmental Toxicology in the New Millenium**” organized by zoology Department of Institute of Science, Mumbai in collaboration with “Academy of Environmental Biology” Lucknow from 22<sup>nd</sup> to 24<sup>th</sup> November, 2004.
8. Organized workshop on ‘**NET/SET in Environmental Science**’ in Dept of Environmental Science, Shivaji University, Kolhapur on 26 to 28 December, 2005
9. Organized Workshop on “**Important Bird Areas**” in Collaboration of Indian Bird Conservation Network, BNHS, Mumbai and Deptt of Environmental Science, Shivaji University, Kolhapur at Dajipur Wildlife Sanctuary on 1 - 2 Mach, 2007.
10. Organized workshop on “**Communities Right to Know in Environmental Democracy**” organized by Nisarga & LIFE in Dept of Environmental Science, Shivaji University on 10<sup>th</sup> March, 2007
11. Organized Workshop on “**Indian Bird Conservation Network**” at Department of Environmental Science, Shivaji University, Kolhapur in collaboration with Indian Bird Conservation Network, Mumbai on 13<sup>th</sup> to 14<sup>th</sup> Sept, 2007
12. Organized Workshop on “**Electro-separation Techniques in Biotechnology**” in the Dept. of Environmental Science, Shivaji University, Kolhapur. In Collaboration with Techno source Mumbai on 28 and 29<sup>th</sup> December, 2007.
13. Organized Public Forum on Noise Pollution in Shahu Smarak Bhavan, Dasara Chowk, Kolhapur in Collaboration with The Association of Otolaryngologists of India, Kolhapur. On 8<sup>th</sup> February, 2008.
14. Organized Workshop on “**Noise Pollution Monitoring and Control**” in collaboration with Maharashtra Pollution Control Board on 13<sup>th</sup> May 2009.

15. Organized workshop on “**Panchaganga Water Pollution Prevention**” in collaboration with Rotary club of Karveer and Zilha Parishad Kolhapur on 28<sup>th</sup> May 2010.
16. Organized one day workshop on “**JalaSRI**” with Prof. G. P. Patil, Founder Distinguished Mentor and Honorary Advisor of JalaSRI from Pennsylvania University, U.S.A. on 1<sup>st</sup> June, 2010.
17. Organized two days sensitization workshop on “**Fluoride in Water**” in collaboration with Dept of Science and Technology, New Delhi on 22<sup>nd</sup> and 23<sup>rd</sup> March, 2011 at Department of Environmental science, Shivaji University, Kolhapur.
18. Organized two days workshop on “**Use of Scientific Terminology in Environmental Science**” on 27<sup>th</sup> and 28<sup>th</sup> Oct. 2012 at Department of Environmental science, Shivaji University, Kolhapur.
19. Organized two day International Conference on “**Sustainable Water Resource Development and Management**” sponsored by MoES and DAE-BRNS on 20<sup>th</sup> and 21<sup>st</sup> Dec. 2012 at Department of Environmental Science, Shivaji University, Kolhapur.
20. Organized three day Workshop on **Advance tools and Techniques in Geoinformatics sponsored by UGC on 5<sup>th</sup> and 7<sup>th</sup> March 2014** at Department of Geography, Shivaji University, Kolhapur.
21. Organized National Conference on ‘Religion and Environment with special reference to Jainism’ from 23<sup>rd</sup>-24<sup>th</sup> February, 2016 jointly organized by Bhagwan Mahaveer Chair and Department of Environmental Science, Shivaji University Kolhapur.
22. Organized ‘Bee Keeping Development’ in “**National Bee keeping workshop**” on 17<sup>th</sup> to 19<sup>th</sup> December 2016, jointly organized by Department of Environmental Science and Department of zoology, Shivaji University, Kolhapur.
23. Organized Science Academies, Lecture workshop on “Foundation Lectures in Biology, jointly organized by Department of Environmental Science and Department of Zoology, on 16-18 Aug 2017 Shivaji University, Kolhapur.
24. Organized workshop on Ecofriendly Ganesh Idol Making “**Tree Ganesha Workshop**” on 12<sup>th</sup> August 2017. Under Camouflage Nature Club of Department of Environmental Science, Shivaji University, Kolhapur.
25. Organized a guest lecture on “**Our Planet under Pressure**” the occasion of lecture series of Narahar Vishnu Karekar Vakhyanmala, Department of Environmental Science, Shivaji University, Kolhapur, on 30<sup>th</sup> January 2018.
26. Organized Workshops on “**Environmental Protection and Training Workshop**” at Swami Vivekanand College, Kolhapur, Lal Bahadur Shastri College of Arts, Commerce and Science, Satara, Willingtone College, Sangli, Girls Hostel, Shivaji University, Kolhapur, Durind 25 January to 10 March 2018.

## ACTIVITIES CONCERNING CORPORATES:

1. **Co-ordinator:** M. Tech. / B. Tech. in Environmental Science and Technology,  
Dept. of Technology, Shivaji University, Kolhapur. (2008 -10).
2. **Head** : Department of Geography Shivaji University, Kolhapur (Aug.2013)  
Department of Geography Shivaji University, Kolhapur (Dec. 2013)  
Department of Zoology Shivaji University, Kolhapur (2016)
3. **Hostel Wardenship:**
  - a. Worked as Warden of Telang Memorial Hostel, Churchgate, Mumbai.
  - b. Rector, Boys Hostel, Shivaji University Kolhapur
  - c. Chief Rector, Students Hostels, Shivaji University, Kolhapur
4. **Guidance Bureau:**
  1. Worked as member on Institutes Employment Cell.
  2. Worked as Placement Officer, Dept. of Environmental Science, Shivaji University, Kolhapur.
  3. Worked as Co-ordinator, NET-SET coaching classes,  
Dept. of Environmental Science, Shivaji University, Kolhapur.
  4. Worked as Co-ordinator, Remedial Coaching classes,  
Dept. of Environmental Science, Shivaji University, Kolhapur.
5. **Gymkhana** : Worked on Gymkhana Committee of Elphinstone College, Mumbai for eight years.
6. **Examinations** :
  1. Worked as Chief moderator for H.S.C. Examination for six years in Elphinstane College, Mumbai.
  2. Working as a Chairman, M.Sc., DEPM, M. Tech., PGDISHE , DISHE Examinations.
  3. UGC NET Examination panel
  4. Worked as a Examiner in the “Sangali District Avishkar Sanshodhan Mahotsav2014-15”, at K.B.P. College, Uran Islampur.
  5. Worked as a examiner for paper setting in Solapur University Solapur, in Environmental Science, on 13/12/2014.
  6. Participated as a expert in Commission for scientific and technical terminology, at Lal Bahaddur Shashtri College of Arts,Science and Commerce, Satara on 24/01/2017.
  7. Attended as “Avishkar Sanshodhan Mahotsav”, 2014-15 as a Examiner at Ashoakrao Mane Group of Institutions, Faculty of Engineering and



Management Studies (MBA)

- 7. Board of Studies** :
1. Chairman, Ad hoc Board of Studies, Environmental Science, Shivaji University, Kolhapur.
  2. Member, Board of Studies, Environmental Science, North Maharashtra University, Jalgaon.
  3. Member, Board of Studies, Environmental Management, SCIBER, Kolhapur.
  4. Chairman, BOS in Food Science and Technology, Shivaji University, Kolhapur.
  5. Member, BOS in Geography, Shivaji University, Kolhapur.
  6. Member of Ad-hoc board of Environmental Science, Swami Ramanand Tirth Marathwada University, Nanded.
  7. Member of Ad-hoc board of Environmental Science, University of Mysore.
  8. Chairman, BOS in Zoology, Shivaji University, Kolhapur.
  9. Member, BOS in Environmental Science, Solapur University Solapur.
- 8. Consumer Stores** :
1. Vice President, Shivaji University Consumer Stores. 2008 - 2012
  2. President, Shivaji University Consumer Stores. 2012 -2017
- 9. Senate member** :
1. Worked as a Senate member 11<sup>th</sup> June 2013 to 31<sup>st</sup> August 2015 in Shivaji University Kolhapur.
  2. Present Senate Member of Shivaji University Kolhapur.
- 10. Academic Council Member:** Present Academic Council Member of Shivaji University Kolhapur.
- 11. Management Council Member:** Present Management Council Member of Shivaji University Kolhapur.
- 12. Dean:** In-charge Dean, Faculty of Inter-disciplinary Studies
- 13. Consultancy work carried out during the year 2007 onwards:**

Sr. No.	Details	Amount (Rs)
1	Panchganga – Krishna river water monitoring (MPCB)	3,00,025=00
2	Terra Firma, Goa.	2,80,000=00
3	Noise monitoring during Diwali and Ganesh Utsav, 2007. (MPCB)	13,852=00
4	Environmental Status Report- 2008 KMC	2,45,000=00

5	Miscellaneous	25,000=00
6	Maharashtra Pollution Control Board for Police Officers Training on Noise Pollution.	1,50,000=00
7.	Survey of Drought prone areas of Sangli district for Collectorate, Sangli	1,00,000=00
8.	NEERI	1,29,000=00
9.	MPCB	30,000=00
10	Ghodawat Jaggery Pre-feasibility Report	1,00,000=00
11	Green Audit, K. B. P. College, Pandharpur	20,000=00
12	Miscellaneous	3,00,000=00
13	Green Audit of Ramanand Nagar College, Kirloskarwadi, Dist Sangli.	10,000=00
14	Water and Energy Audit of TCS House, Mumbai	50,000=00
15	76 MLD ETP monitoring KMC	203600=00
16	Arts, Science and Commerce College, Ramanandnagar, Dist. Sangli.	10,000=00
17	Laxmibai Bhaurao Patil Mahila Mahavidyalaya, Solapur.	10,000=00
18	Shri Raosaheb Ramrao Patil Mahavidyalaya Savalaj, Sangli.	10,000=00
19	Chandrabai Shantappa Shendure College,Hupari.	10,000=00
20	RIT college, Islampur.	15,000=00
21	Abasaheb Marathe Arts and New Commerce, Science College, Rajapur, Dist. Ratnagiri.	10,000=00
22	Prof (Dr) N.D.Patil Arts, Commerce & Science College, Malkapur.	15,000=00
23	R. O. water plant monitoring SUK.	17,000=00
24	General consultancy 2018-19	140379=00
24	General consultancy 2019-20	208373=00
<b>Total</b>		<b>Rs. 24,02,229=00</b>