

Dr. D. K. Gaikwad.

1. Personal Details



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dkg_botany@unishivaji.ac.in
17th July 1965.

Date of Birth

**2. Academic Details
Qualifications**

M. Sc. Ph. D.
Title of Ph. D. work –
**“PHYSIOLOGICAL STUDIES IN SALINITY
TOLERANCE OF GRAIN AMARNTH.”**

**Designation
Institution**

Professor
Department of Botany, Shivaji University, Kolhapur.
Plant Physiology.

3. Research Specialization

4. Teaching Experience

U.G.-18 years. P.G. – 13 years

5. Research guidance

Ph.D. Working -08 Awarded - 15
(Annexure)

M. Phil. Working- 01 Awarded - 01
(Annexure)

6. Research publications

National –and International – **57**, Proceedings – 04.
(Annexure)

7. Conferences attended

National – 66 (Annexure)

International - 1 (Annexure)

8. Research project work –

Ongoing and Completed Research Projects

Sr. No	Title	Agency	Period	Whether PI/ Co-PI	Grant /Amount Mobilized (Rs. Lakh)
1	Inventorization of medicinal plants from Satara, Sangli and Kolhapur Districts	Rajiv Gandhi Science Technology	March 2008 to March 2012	Principal investigator	33,00000

2	Costal Resource and Mangrove Bioinformatics	UGC DRS SAP 1	April 2007 to April 2012	Co investigator	54 ,00000
3	Improvement of Infrastructural facilities to develop Botanical Garden as Lead Garden	MOE F	September 2008 to August 2011	Co investigator	47, 54, 540
4	Transplantation and/or cutting of trees and new plantation along raod sides in Kolhapur city (Consultancy)	IRB compa ny	January 2009 to January 2010	Co investigator	5,50,000

Projects Outcome /Output: Technology transfer / Product process

Sr. No.	Name of the Project	Funding Agency	Whether Co-PI	Amount Mobilized (Rs.) Rs. Lakh)
1	Technology transfer / Product process Assessment of effect of Herbal Extracts on Physiology of Crop Plants (Onion)Sep 2010-12	Vasumitra Life Energy pvt ltd Pune	PI	4.84
2	Technology transfer / Product process Assessment of effect of Herbal Extracts on Physiology of Crop Plants (soybean)Sep 2012-13	Vasumitra Life Energy pvt ltd Pune	PI	2.42

9. Other charges

- **Head**, Department of Botany, Shivaji University, Kolhapur (June-2014 to Sep 2014 and June-2016 to May 2019)
- **Director** ,N.S.S. Cell, Shivaji University, Kolhapur.(July-2017 to Till Date)
- **Director**, Department of Students Welfare, Shivaji University, Kolhapur.(Aug-2008 to July 2014)
- **Programme Coordinator**, N.S.S. Cell, Shivaji University, Kolhapur. .(Aug-2008 to July 2017)
- **Coordinator**, Work on Demand Scheme, Shivaji University, Kolhapur. .(Aug-2006 to July 2009)
- **Programme Officer**, N.S.S. P.G. unit, Shivaji University, Kolhapur. .(Aug-2006 to July 2010)

- **Convener** , Youth Development Center, Shivaji University, Kolhapur.
- **Nodal Officer** ,Student's Grievance cell .
- **Nodal Officer** ,Anti ragging cell .

10. Membership

- 1) Member of Senate , Shivaji University, Kolhapur (2008-2014).
- 2) Member of Academic Council , Shivaji University, Kolhapur (2017-2019).
- 3) Member of Faculty of Sciences , Shivaji University, Kolhapur (2017-2019).
- 4) Member of BOE, Shivaji University, Kolhapur (2017-2019).
- 5) Member of RRC,Botany, SRTM University, Nanded (2019-2021).
- 6) Member of RRC,Botany, Karnatak University, Dharwad (2014-2016).
- 7) Member of RRC,Botany, Shivaji University, Kolhapur (2017-2019).
- 8) Chairman of DRC,Botany, Shivaji University, Kolhapur (2017-2019).
- 9) Chairman of RAC,Botany, Shivaji University, Kolhapur (2017-2019).
- 10)Chairman BOS, Botany, Shivaji University, Kolhapur,(2017-2019).
- 11)Chairman Advoc BOS, NSS ,Shivaji University, Kolhapur, ,(2012-2016).
- 12)Member of BOS, Shivaji University, Kolhapur (2004-2006).
- 13)Member of BOS,Botany, Solapur University, Solapur (2006-2009&2012to2014&2017to2019).
- 14)Member of BOS,AGPM, Solapur University, Solapur (2017to2019).
- 15)Member of BOS,Botany, Gulberga University, Gulberga,Karnatka (2016-2018)
- 16)Life Member of Indian Society of Plant Physiology ,New Delhi.
- 17)Member of News and Views of Plant Physiology, APAU, Bapatla, India.
- 18)Member of Annals of Plant Physiology, Forum for Plant Physiologists Akola, India.
- 19)Member of Kolhapur Dist. Botany Teachers Association.
- 20)Member of Botany Club of Solapur Dist.
- 21)Life Member of Maharashtra state grape growers co-operative society, Pune
- 22)Member of Baliraja Monthly Magazine on Agriculture
- 23)Member of Godva Monthly Magazine on Agriculture
- 24)Member of Shetkari Monthly Magazine on Agriculture
- 25)Member of Draksha Vrutta Monthly Magazine on grape cultivation

11. Honours / Awards –

- State level Best NSS Co-ordinator Award 2012-13 by Government of Maharashtra.
- Maratha Bhushan Award 2013
- Sadhana Award 2013
- Youth Award 2001 by Nehru Yuva Kendra , Kolhapur
- Adarsh Nasha Bandi Yuva Manch Award- 2000 by District Prohibition and Propogonda Office, Kolhapur
- Awarded Second Prize In Research Competition at University Level. Desai, Nivas., and Gaikwad, D. K. 2008. Studies on metabolites of valuable medicinal plant Noni. Avishkar 2008. In Pharmacy Category.
- Awarded Second Prize In Research Competition at University Level. Patil, U. H., Gaikwad D.K. and Chavan, P.D. 2008. Studies on the antibacterial activity of stem bark of *Boswellia serrata* Roxb family- Burseraceae. In Pure Sciences Category

11. Fellowship / Post Doctoral

Direct award of Teacher Fellowship from UGC at National level 1994–95.

ANNEXURE I

1. Academic Staff College Orientation / Refresher Course/ ISTE - AICTE Sponsored STTP/SBP attended during the year.

Name of the Course/ Summer School	Place	Duration	Sponsoring Agency
Orientation course on “ New Educational Policy -1986”	Academic staff College Goa Uni Goa	3 rd July to 29 th July 1989	UGC
One month refresher course “Biotechnology and Genetic Engineering”,	Dept. of Life Sciences, Central Uni. Of Hydrabad .	14 Feb to 11 March 1994	UGC
One month refresher course on “Evolution”	Dept. of Botany Shivaji Uni. Kolhapur	1Nov to 22 Nov 1995	UGC
N.S.S. Orientation Course	Tata Institute of Social Sciences , Mumbai	16 to 25 March 1998	Department of Youth Affairs and Sports Government of India , Delhi
One month refresher course on “Recent Advances In Botany’	Dept. of Botany Dr. Babasaheb Ambedkar Marathwada Uni. Aurangabad	3 to 28 th July 1999	UGC
N.S.S. Training and Orientation on HIV / AIDS program under UTA- Phase	Tata Institute of Social Sciences , Mumbai	8 to 10 Aug. 2001	Department of Youth Affairs and Sports Government of India , Delhi
‘Project Genesis’ Global Skills Enhancement Training Programme	organized by Infosys BPO at Mysore	10 – 24 June 2007.	Infosys Maysore
43 rd NSS refresher course on the theme ‘Global warming : Role that NSS voluenteers can Play’	jointly organized by Tata Institute of Social Sciences Mumbai and Shivaji University Kolhapur.	March 25 – 29, 2008	Department of Youth Affairs and Sports Government of India , Delhi

A. Working Students Ph. D

Sr. No	Name of the Research Student	Title of Ph.D.	Date of Registration	Remarks
1.	Ms. Chavan Reshma Bharat	Studies on a medicinal plant-tit-berry (<i>Allophylus</i> species)	10/06/2006	Awarded 22/04/2013
2.	Mr. .Desai Nivas Manohar	Physiological studies in a valuable medicinal plant noni- <i>Morinda</i> sps.	01/01/2007	Awarded 7/04/2011
3.	Mr. Patil Udaysing Hari	Studies on bark of promising medicinal plants from Kolhapur region.	01/01/2007	Awarded 7/04/2011
4.	Mrs. Patil Manasi Shirish	Effect of plant growth regulators on physiology of seed germination and seedling growth in <i>Simaruba glauca</i> dc.	01/01/2007	Awarded 26 /05/2012

5.	Mrs. Lokhande Alaka Arun	Responses on physiological onion- <i>Allium cepa</i>	01/01/2007	Awarded 30/5/2015
6.	Mr. Patil Vijaykumar	Studies on post harvest physiology of grapes with respect to production of raising.	01/01/2007	Awarded 17/06/2015
7.	Mr. Rajmane Niranjan R.	Seedling physiology of <i>Simarouba glauca</i> under saline condition.	01/01/2007	Awarded 5/6/2015
8.	Mr.. N. M. Pise	Nutraceutical and antioxidant properties of commercially important marine macro algae.	1/7/2010	Awarded 21/10/2014
9.	Ms.P.S.Powar	Study of Antimicrobial, antioxidant and biotonic potential of bark of some mangrove speices.	1/7/2010	Awarded 7/11/2014
10.	Ms. P.P. Jadhav	Physiological Studies in <i>Amaranthus gangeticus L.</i>	July 2011	Awarded
11.	Ms P.D. . Awate	Drought tolerance studies on medicinally important oil yielding plant <i>Simarouba glauca DC.</i>	July 2011	Awarded
12.	Mr.S.A.Deshmukh	Abiotic stress tolerance studies in a medicinally important plant <i>Basella alba L.</i>	July 2011	Awarded
13.	Ms. Patil R S	Studies on influence of Herbal extracts on onion(<i>Allium cepa L.</i>)under Water Stress.	July 2011	Awarded
14.	Miss. Mali V. V.	Effect Of Fluoride Stress On Medicinally Important Oil Yielding Plant <i>Simarouba Glauca Dc</i>	2011	Awarded
15.	Miss. Patil S. S.	Study of Ultra Violet –B induced defence system in medicinal plant <i>Simarouba glauca DC</i>	2011	Awarded
16.	Mr Dethe U L	Study Of Allelopathic Activities Of An Invasive Weed <i>Chromolaena Odorata (L.) R.M. King And H.Robinson</i> On Some Coastal Species.	2014	Awarded
17.	Miss Alvikar A R	Isolation And Characterization Of Mucilage From Selected Plant Species.	2013	Awarded
18.	Mrs Gaikwad Seema A	Physiological Studies In <i>Linum usitatissimum Linn.</i>	2014	Awarded
19.	Mrs Joshi Asmita A	Study Of Influence Of Some Plant Growth Regulators On The Physiology And Biochemistry Of <i>Plectranthus Barbatus (Andr.) Syn. Coleus Forskohlii (Willd.)</i> .	2014	Awarded
20.	Mrs Salunkhe Manisha S	Biochemical composition of <i>Delonix regia</i> Bojer ex hook	2013	Submitted
21.	Mr Satpute M D	Nutraceutical and antioxidant evaluation of <i>Momordica cymbalaria fenzl.</i> under water stress conditions	2012	Submitted
22.				

23.	Miss Koparde Shital	Biosynthesis Characterization And Biomedical Evaluation Of Green Nano Particles From Some Medicinal Plants	2013	Working
24.	Miss Kamble Shubhangi	Systematic Studies On The Genus <i>Amranthus</i> From India	2015	Working
25.	Mr Naryankar Chirag	Evaluation of Anti-cancerous potential of some herbal formulations	2017	Working
26.	Mr Samant Indrajeet	Bioprospecting of palm fruits for natural dyes	2015	Working
27.	Mr Carrapalle Sudarshan	Extraction, standardization and evaluation of composite bio-products for residue free organic farming	2017	Working
28.	Miss Wadkar Snehal	Bioprospecting of wild <i>Amaranthus</i> species	2017	Working
29.				
30.		Co Guide		
31.	Mrs Satpute S M	Phytochemical and Antimicrobial studies On Bark And Pods Of <i>Cassia fistula</i>	2011	Submitted
32.				
33.				

B. Working Students M. Phil.

1.	Ms. Powar Pratishtha Shivajirao	Studies on antimicrobial activity of barks of some mangrove species	06/06/2007	Awarded
2.	Ms Patil Sonali	Isolation, purification and characterization of natural dyes from Arum.	2014	Working

Text or Reference Book, editorial vols without ISBN / ISSN No

Sr. No.	Title with page nos.	Type of Book & Authorship	Publisher & ISSN/ISBN No.	Whether peer reviewed	Whether principal author / co- author /
1	Photosynthetic Studies In A C4 Dicot – <i>Amaranthus</i> In: Agro.'S Annual Review Of Plant Physiology (Basic And Applied Volume II. 263-292 (1995)	(Ed) S.S. Purohit Pp	Agro Botanical Pub.(India),Bikaner, ISBN No.81-85031 84-3(Series)ISBN No.81-85031 85-1(VolumeII)	peer reviewed	co- author Gaikwad D.K. And P.D. Chavan.
2	Batacyanin Accumulation In <i>Amaranthus</i> In: Agro.'S Annual Review Of Plant Physiology (Basic And Applied Volume Iv Pp . 262-272 (1999)	(Ed) S.S. Purohit Pp	AGROBIOS(IN DIA)Pub .Jodhpur,India ISBN No.81-7754-016-5(series) ISBN No. 81-7754-017-3(Vol. 4)	peer reviewed	Gaikwad D.K. And P.D. Chavan.
3	Concepts in Botany paper – II2004	Coauthor	Seth Pub.Mumbai	peer reviewed	Gaikwad D K et al
4	Concepts in Botany paper – III2004	Coauthor	Seth Pub.Mumbai	peer reviewed	Gaikwad D K et al
5	Practical course in Botany paper –I 2005	Coauthor	Seth Pub.Mumbai	peer reviewed	Gaikwad D K et al
6	A Text Book of Ecology & Evolution 2005	Coauthor	Manjusha Publications Naldurg .	peer reviewed	Patil S R and D K Gaikwad

ANNEXURE II
PUBLICATIONS
NATIONAL and INTERNATIONAL

- 1) Gaikwad D.K. And P.D. Chavan. (1998) : Effect Of Sodium Chloride Salinity On Seed Germination And Seedling Growth Of Three *Amaranthus Species* . *Journal of Shivaji Uni. (Sci.)* , **34** : 264-269
 - 2) Gaikwad D.K. , A.R.Supate , S.R.Yadav And P.D. Chavan. (1989). :- Occurrence of Crassulacean Acid Metabolism in Stem Tissue of *Ceropegia Juncea roxb. Photosynthetica* , **23(2)** : 216 – 220
 - 3) A.R.Supate , Gaikwad D.K. , A.R.Supate , S.R.Yadav And P.D. Chavan. (1990). :- Crassulacean Acid Metabolism In Leafy Forms of *Ceropegia Also Photosynthetica* , **24(2)** : 270 – 272
 - 4) Gaikwad D.K. And P.D. Chavan. (1995) : Effect Of Salt Stress On Some Antinutritional Factors In *Amaranthus Species*. *Acta Botanica Hungarica* , **39(3-4)** : 355- 362
 - 5) Gaikwad D.K. And P.D. Chavan. (1998) : Salinity Induced Changes In Stomatal Behaviour And Water Relations In Three *Amaranthus Species* *Annals of Plant Physiology*, **12(2)**: 119-125
- Gaikwad D.K. And P.D. Chavan. (2000) : Effect Of Salinity On Carbohydrate Status Of Three *Amaranthus Species*. *Acta Botanica Hungarica* , **42 (1-4)** : 111- 117
- 5) Nivas Desai and D.K.Gaikwad 2009 Biochemical changes during maturation of fruits of valuable medicinal plant *Morinda*. *The Bioscan*, **4(1)** : 495-498,
 - 6) Powar Pratihtha S. D.K. Gaikwad and P.D.Chavan , 2009. Antibacterial activity of mangrove bark. *Bioinfolet*, **6 (4)** : 365-367
 - 7) Desai Nivas, D.K. Gaikwad and P.D.Chavan, 2010. Free radicle , scavenging potential activity and free radicle activity of Indian Noni fruits. *Nutraceuticals*, **1(1)** : Issn No. 0976-3872
 - 8) Desai Nivas, D.K. Gaikwad and P.D.Chavan , 2010. Antiradical activity of medicinally important *Morinda pubescens* fruits. *International Journal of pharma and Bio Sciences*, **1 (3)**: 1-4
 - 9) Desai Nivas, B.A. Sonar , S.S.Shaikh, U.H.Patil, D.K.Gaikwad, N.S.Chavan, A.B. Sabale and P.D.Chavan , 2010. Screenings of some coastal plant resources for their antioxidant potential, total polyphenol and flavonoid content. *Phcog. Net / WWW.phycogj.COM* .**2 (7)** : 151-156
 - 10) Desai Nivas, Gaikwad, D.K. And P.D.Chavan. 2010. Antiradical Activity Of Medicinally Important *Morinda pubescens* Fruits. *International Journal of Pharma and Bio Sciences*. **1 (3)** : 1 – 4.
 - 11) Desai Nivas, Gaikwad, D.K. And P.D.Chavan. 2010. Proximate composition and some physicochemical Properties of *Morinda* pulp. *International Journal of Applied Biology and Pharmaceutical Technology*. **1 (2)** : 679-382.
 - 12) Desai Nivas, Gaikwad, D.K. And P.D.Chavan. 2011. Phytochemical evaluation of noni fruits. *Bioinfolet*. **8 (1)** :
 - 13) Uday Patil and D. K. Gaikwad. 2011. Differential Bactericidal Potential And Phytochemical Evaluation Of *Crataeva religiosa* Stem Bark. *International Journal Of Pharmaceutical Research And Development*. **2(11)**: 82-88
 - 14) Uday Patil and D. K. Gaikwad. 2011. Medicinal Profile of a Sacred Drug in Ayurveda: *Crataeva religiosa*- A Review. *Journal of Pharmaceutical Science and Research*. **3 (1)**: 923-929.
 - 15) Uday Patil and D. K. Gaikwad. 2011. Phytochemical Screening And Microbicidal Activity Of Stem Bark Of *Pterocarpus marsupium*. *International Journal Of Pharma Sciences And Research*. **2 (1)** : 36 – 40.

- 16) Desai Nivas, B.A. Sonar , S.S.Shaikh, U.H.Patil, D.K.Gaikwad, N.S.Chavan, A.B. Sabale and P.D.Chavan , 2010. Screenings of some coastal plant resources for their antioxidant potential, total polyphenol and flavonoid content. Phcog. Net / www.phycogj.com .2 (7) : 151-156
- 17) Pise. N. M., X. N. Verlecar, D. K. Gaikwad and T. G. Jagtap (2012). Nutraceutical properties of the marine macroalga *Gayralia oxysperma*. *Botanica Marina*. 10; 55((6)):581-589.. IF 1.237
- 18) Pise. N. M., D. K. Gaikwad and T. G. Jagtap (2012). Oxidative stress and antioxidant indices of marine alga *Porphyra vietnamensis*. *Acta Botanica Croatica*. Partially Accepted. IF 0.435
- 19) Pise. N. M., D. K. Gaikwad and T. G. Jagtap (2013). Oxidative stress and antioxidant indices of marine alga *Gayralia oxysperma*. *Journal of Environmental Science- China*. 22 (9) 1-6. IF – 2.34
- 20) Udaysing Hari Patil and Dattatraya K. Gaikwad. (2012). Effect of varying environmental conditions on mineral status of stem bark of *Anogeissus latifolia*. *Journal of Pharmacy Research*, 5(2):1140-1143. Impact Factor TM (India) = 2.507
- 21) Pise. N. M., D. K. Gaikwad and T. G. Jagtap(2013). Oxidative stress and antioxidant indices of marine alga *Gayralia oxysperma*. *Journal of Environmental Science- China*. 22 (9) 1-6. IF – 2.34
- 22) Pise. N. M., D. K. Gaikwad and T. G. Jagtap (2013) Oxidative stress and antioxidant indices of marine alga *Porphyra vietnamensis*. *Acta Botanica Croatica*, vol.752(2); 197-209 IF 0.435
- 23) Awate P. D. and D. K. Gaikwad(2014)Influence of Growth Regulators on Secondary Metabolites of Medicinally Important Oil Yielding Plant *Simarouba glauca* DC.under Water Stress Conditions. *Journal of Stress Physiology & Biochemistry*, Vol. 10 No. 1, pp. 222-229
- 24) Desai Nivas*, Gaikwad DK (2013)Rapid bioassay for the study of growth promoting activity of *Morinda pubescens* leaf extract *Asian Pacific Journal of Reproduction*; 2(3): 225-228
- 25) Lokhande*, A.A. and Gaikwad, D.K.(2014) Effect of plant growth regulators on photosynthetic pigments and products of two onion varieties *Indian Journal of Advances in Plant Research (IJAPR)*,
- 26) Powar P.S. and Gaikwad D.K.(2014) Quantification of phytochemicals from some mangrove bark *Indian Journal of Advances in Plant Research (IJAPR)*,
- 27) Powar , P.S., Gaikwad , D.K. and Bhoite , A.S.(2014) Antibacterial activity of mangrove bark against plant pathogenic bacteria *Indian Journal of Advances in Plant Research (IJAPR)*,
- 28) S. A. Deshmukh and D. K. Gaikwad(2014)A review of the taxonomy, ethnobotany, phytochemistry and pharmacology of *Basella alba* (Basellaceae) *Journal of Applied Pharmaceutical Science* Vol. 4 (01), pp. 153-165.

- 29) Patil, R. S., Gaikwad, D. K. and Joshi, Snehal.(2016) Effect of herbal extracts and Plant growth regulators on photosynthetic pigments of soybean under waterlogged condition. *Indian Journal of applied research.*, 6 (1): 32-33.

- 30) Patil R. S. and Gaikwad. D. K. (2016) Effect of foliar application of PGRs and herbal extracts on carbohydrate metabolism of soybean under waterlogging condition. *World Journal Of Pharmacy and Pharmaceutical Sciences.*,5(2): 971-975.

- 31) Jadhav, P. P. and Gaikwad, D. K. (2015). Influence of Exogenously Applied plant growth regulators on photosynthetic pigments of *Amaranthus gangeticus* L. under salt stress. *Indian streams Research Journal.*, 5(1): 1-4 ISSN: 2230-7850.
- 32) Mali V. V., Bhoite A. S. and D. K. Gaikwad (2015). Effect of Elevated Fluoride Concentrations on Chlorophylls of medicinally important oil yielding plant *Simaruba glauca* DC. International conference on contemporary research in chemical and life Sciences- 2015 organized by Sadguru Gadage Maharaj College, Karad, 2015.
- 33) Awate P. D. and Gaikwad D. K. (2016). PGR induced antioxidative Properties of *Simaruba glauca* Seedling grown under water stressed conditions. International Conference on Plant Research and Resource Management, and 25th APSI Silver Jubilee Scientist Meet 2016. 11-13 February, 2016.
- 34) Patil M. S. and Gaikwad D. K. (2016). Seed Priming with PGRs before Oil Extraction Improves Fatty Acid Profile of *Simaruba glauca*. International Conference on Plant Research and Resource Management, and 25th APSI Silver Jubilee Scientist Meet 2016. 11-13 February, 2016.
- 35) Gaikwad Seema, Pise N. M. and D. K. Gaikwad (2016). Fatty acids (FAs) Composition of PGR Treated *Linum usitatissimum* L. International Conference on Plant Research and Resource Management, and 25th APSI Silver Jubilee Scientist Meet 2016. 11-13 February, 2016.
- 36) Pise N. M. and Gaikwad D. K. (2016). Oxidative Stress and Antioxidant Indices of The Esturine Alga *Gayralia oxysperma*. International Conference on Plant Research and Resource Management, and 25th APSI Silver Jubilee Scientist Meet 2016. 11-13 February, 2016.
- 37) Satpute S. M., Bhamburdekar S. B., Gaikwad D. K. and N. M. Pise. (2016). Characterization of Antioxidant Properties of *Cassia fistula* Linn. International Conference on Plant Research and Resource Management, and 25th APSI Silver Jubilee Scientist Meet 2016. 11-13 February, 2016.

- 38) Patil S. S. and D. K. Gaikwad (2016) Uvb induced changes in photosynthetic pigments of medicinally important plant *Simarouba glauca* dc. *World Journal Of Pharmacy and Pharmaceutical Sciences.*,5(2): 1092-1098.
- 39) Patil R.S. , Gaikwad D. K and Joshi Snehal (2016) Effect of herbal extracts and plant growth regulators on photosynthetic pigments of soybean under water logged condition. *Indian Journal of applied Research.* 6(1) 32-33.
- 40) Patil R.S. and Gaikwad D. K (2016) Effect of foliar application of PGRs and herbal extracts on carbohydrate metabolism of Soybean under waterlogging condition. *World Journal of Pharmacy and Pharmaceutical Sciences.* 5 (2): 971-975.
- 41) Deshmukh S. A. and Gaikwad D. K (2016) Growth development studies in *Basella alba*. L. with respect to LAR, NAR, and RGR under water stress. *Journal of Agriculture science and technology*, 5(1): 8-15 .
- 42) Deshmukh S. A. and Gaikwad D. K (2016) Status of phosphatase in *Basella alba*. L leaves during water stress. *Research and review A Journal of life sciences.* 6 (1) 6-9
- 43) Awate, P.D. , M.S. Patil and D. K. Gaikwad (2017) Efficacy of plant growth regulators on nitrogen fraction of medicinally important oil yielding plant *Simarouba glauca* DC. under water stress condition. *International journal of researches in biosciences, agriculture and technology.* Vol-5, Special Issue (3).
- 44) Koparde S. B. and D. K. Gaikwad (2017) Antibacterial potential of green silver nanoparticles synthesized from medicinal plant *Terminalia arjuna* *International journal of researches in biosciences, agriculture and technology.* Vol-5, Sp. Issue (3).
- 45) Patil Manasi S. and D. K. Gaikwad (2017) Effect of PGRs on the activity of enzyme lipase in Medicinally important oil yielding plant *Simarouba glauca* DC. seedlings. *International journal of researches in biosciences, agriculture and technology.* Vol-5, Sp. Issue (3).
- 46) Alvikar Annapurna R. and D. K. Gaikwad (2017) Antigenotoxic potential of mucilage extracted from various plants. *International journal of researches in biosciences, agriculture and technology.* Vol-5, Special Issue (3).
- 47) Jadhav Priyanka P. and D. K. Gaikwad (2017) Effect of exogenous application of plant growth regulators on polyphenols and flavonoids content of *Amaranthus gangeticus* L. under salt stress. *International journal of researches in biosciences, agriculture and technology.* Vol-5, Special Issue (3).
- 48) Jadhav Priyanka P. and D. K. Gaikwad (2017) Studies of seed germination technique by using traditional methods in *Sonneratia* sp. *Sonneratia alba* and *Sonneratia apetala* *International journal of researches in biosciences, agriculture and technology.* Vol-5, Special Issue (3).
- 49) Gaikwad S. A and D. K. Gaikwad (2017) Effect of Chickpea leaf leachates, Safflower leaf leachates, NaCl treatments and Plant Growth Regulators treatment and PEG treatments on Lipase activity in different *Linum usitatissimum* varieties during germination. *World Journal of Pharmacy and Pharmaceutical Sciences.* 6(8): 2278-4357.
- 50) Jadhav P.P and D. K. Gaikwad (2017) Study of antigenotoxicity of *Sonneratia alba* J. Smith. Fruit extract. Multidisciplinary International conference on Green Earth: A Paratomic view 12
- 51) Shital Koparde and D. K. Gaikwad (2018) Antibacterial potential of green silver nanoparticle Synthesized from leaves and bark extract of *simarouba glauca*. *International research journal of pharmacy.* Page no.42-45 (2018)
- 52) Joshi A. S. and Gaikwad D. K. (2018) Alterations in photosynthetic pigments and products of *Coleus forskohlii* (Wild) in response to plant growth regulators applications. *International journal of basic and applied research.* 9 (5)

- 53) Joshi A. S. and Gaikwad D. K. (2018) Influence of brassinosteroides on the products and enzymes of secondary metabolism in *Coleus forskohlii* (Wild) *International journal of basic and applied research* 9(6)
- 54) Joshi A. S. and Gaikwad D. K. (2018) Influence of triconanol on and yield attributes of *Coleus forskohlii* (Wild) syn *Plectranthus barbatus* (Andr) *Bioscience Discovery*, 9 (2) 302-307.
- 55) (2018)
- 56)

PROCEEDINGS

- 1) Awate P. D., Patil S. S. and D.K. Gaikwad Effect of Drought and UV stress on Photosynthetic pigments of medically important oil yielding plant *Simarouba glauca* DC pp-19-22 International conference on advanced and applied material science organized by Gopal Krishna college, Kolhapur 15th-16th January 2014
- 2) Jadhav P.P. and D.K. Gaikwad Effect of foliar applications of plant growth regulators on enzymatic activity of alkaline phosphatase and ATPase in *Amaranthus gurgensis* L. under salinity stress. Pp-142-145 International conference on advanced and applied material science organized by Gopal Krishna college, Kolhapur 15th-16th January 2014
- 3) Patil Manasi S and Gaikwad D. K Effect of foliar applications of plant growth regulators on photosynthetic pigments of Medicinal plant *Simarouba glauca* DC. In the Proceeding of State level Seminar on “Recent innovative trends in Plant Sciences” organized by Department of Botany, Rayat Shikshan Sanstha’s Mahatma Phule A.S.C College, Panvel, Dist-Raigad on 1st September 2012. Pp 18- 21
- 4) Gaikwad D.K. And P.D. Chavan. (2001) : *Amaranthus* – A Promising Crop For Salt Affected Soils . In : Proceedings Of The Seminar “Plant Resource Development” Held At Dept Of Botany, Dr Babasaheb Ambedkar Marathawada Uni, Aurangabad (9th December 2000).

ANNEXURE III

PAPERS PRESENTED

1. Gaikwad D.K and P.D. Chavan: Influence of Salt stress on pigment composition in *Amaranthus* species. A paper presented at National Symposium on “Frontiers in plant Science Research” at Hyderabad 13 – 14 Feb. 1994.
2. Gaikwad D.K and P.D. Chavan: Effect of Salt Stress on some Antinutritional Factors in *Amaranthus* species. A Paper abstracted in National Seminar on “Newer Challenges in Agricultural , Horticulture and Industries” from Jan . 11 to 13 ,1994 UAS, Dharwad .
3. Gaikwad D.K. And P.D. Chavan. : Salinity Induced Changes in stomatal behaviour and water relations in three *Amaranthus* species . A paper Abstracted in 85th session of the Science Congress from 3 to 7 Jan 1998 at “Osmania Uni. Hyderabad” .
4. Gaikwad D.K. And P.D. Chavan. : Salinity Induced Changes in the level of some osmolytes in *Amarathus* Species. A paper abstracted in National Seminar from 14 to 16 Feb. 1998 Organized By : ISPP , Department of Botany “Osmania Uni. Hydrabad” .pp83
5. Participated in UGC Seminar on “*Vistas of Computer in Life Sciences*” organized by Botany Department, D. B. F. Dayanand College of Arts & Science, Solapur on 9th & 10th August 2002.
6. Gaikwad D. K. : Studies on Anti Nutritional Factor Oxalic Acid in *Amaranthus* During Various Growth Stages. Paper Presented in State level Seminar on Botany and Industry on 21st Feb. 2004, organized by Department of Botany, Shivaji University, Kolhapur pp4.
7. Gaikwad D. K. : Traditional use of *Alophylus Cobbe* for regenerative fusion of Fractured Bones and Rheumatism, Paper Presented in State level Seminar on Botany and Industry on 21st Feb. 2004, organized by Department of Botany, Shivaji University, Kolhapur pp4.
8. Patil M. N., N. R. Chpade & Gaikwad D. K. : Cultivation and Traditional use of *Artemisia pallens* “Davana” Along Jothiba Foot Hills by the local villager of Kekhale, Paper Presented in State level Seminar on *Botany and Industry* on 21st Feb. 2004, organized by Department of Botany, Shivaji University, Kolhapur.
9. Gaikwad D.K. and P.D. Chavan.(2006) Influence of salinity on the levels of micronutrients in three *Amaranthus* species. In National Symposium on ‘*Recent Trends in Life Sciences*’ held at S. P. Mahavidyalaya, Sawantwadi Dec.1-2, 2006.
10. Disale A. R., Mahamuni A. J., Satpute N. S., Walwadkar S. S., Sonar B. A. Sabale A. B., Gaikwad D. K. and Chavan P. D. (2008). Secondary metabolism in marketed plant drugs. In : National Seminar on “ In the Role of Care-takers of Biosphere” held at Department of Botany, Vidya Pratishthan’s Arts, Science and Commerce College, Baramati, Dist. Pune, on 14, 15 and 16th February 2008.
11. Chavan Reshma B. and Gaikwad, D. K. 2008. Phytochemical constituents of medicinal plant Tit-berry *Allophylus cobbe*. In National Seminar on The Medicinal and Aromatic Plants organized by Department of Botany, Gulbarga University, Gulbarga.
12. Desai, Nivas and Gaikwad, D. K. Interspecific variations in some organic constituents of *Morinda* Species growing in different habitats.’ in the Poster session in the National seminar on ‘Plant Physiology’ Organised by ISPP, New Delhi at BSKKV, Dapoli on 1st Dec., 2007.
13. Desai, Nivas., Pise, N. M, Pise, V. M. and Gaikwad, D. K. 2008. Can Organic farming helps against global warming?’ in the Poster session of the National conference on Global Warming and its consequences held at Baramati, Jan., 2008.
14. Desai, Nivas., and Gaikwad, D. K. 2008. Physiological studies on Primary and secondary metabolites of *Morinda pubescens*. In the poster session of the National Conference on Medicinal Plants Protection and Promotion at Sirsi, Oct., 2008.
15. Chavan Reshma B. and Gaikwad, D. K. 2008.Heavy metal content of medicinally important two species of *Allophylus* in the oral session of the National Conference on Medicinal Plants Protection and Promotion at Sirsi, Oct., 2008.
16. Patil, U. H., Gaikwad D.K. and Chavan, P.D. 2008. Studies on the antibacterial activity of stem bark of *Boswellia serrata* Roxb family-Burseraceae. In the poster session of the National Conference on Medicinal Plants Protection and Promotion at Sirsi, Oct., 2008.
17. Powar Pratishtha and Gaikwad D.K. 2008.Phytochemical analysis of bark extract of three

- mangrove plants. In the poster session of the National Conference on Medicinal Plants Protection and Promotion at Sirsi, Oct., 2008.
18. Patil Manasi and Gaikwad D.K 2008.Effect of plant growth regulators on seed germination of medicinally important plant *Simaruba glauca* D.C. In the poster session of the “National Conference on Medicinal Plants Protection and Promotion” sponsored by UGC, held at Sirsi
 19. Chavan Reshma B., Desai Nivas M., Gaikwad D.K. and Chavan P.D. Analysis of minerals from two medicinally important plants abstracted in International Seminar on Plant physiology ,Delhi Nov. 2008
 20. Rahul J. Mahamuni, Mayur Nandikar, Kumar Vinod C. Gosavi and D. K. Gaikwad (2010). Ethno-Medicinal Plants Used By the Traditional Healers of Shahuwadi Tehsil, Kolhapur District (Maharashtra). A poster presented at XXXIII Conference Of Indian Botanical Society and International Symposium On The New Horizons Of Botany organized by Department of Botany, Shivaji University, Kolhapur during 10th to 12th November, 2010.
 21. Rahul J. Mahamuni, Mayur Nandikar, Kumar Vinod C. Gosavi and D. K. Gaikwad (2011). quantitative assessment of *Nothapodytes pneumonana* – a medicinal species at risk from Northern Western Ghats. Poster presented at National Seminar on Plant Biodiversity for Sustainable Development. Organized by Department of Botany, University of Pune, Pune on March 10-12, 2011.
 22. Desai Nivas , Gaikwad D.K and Chavan, P.D. 2011. Enzymatic treatment for the extraction and clarification of Morinda juice and evaluation of Bioactive compounds using GC-MS/MS. Poster presented at National Seminar on Plant Biodiversity for Sustainable Development. Organized by Department of Botany, University of Pune, Pune on March 10-12, 2011.
 23. Rahul Mahamuni, Mayur Nandikar, Kumar Vinod Gosavi and D. K. Gaikwad (2010) XXXIII Conference Of Indian Botanical Society and International Symposium On The New Horizons Of Botany organized by Department of Botany, Shivaji University, Kolhapur during 10th to 12th November, 2010.
 24. D. K. Gaikwad (2010) National Conference on Plant Physiology during 25th to 27th November, 2010 organized by Department of Plant Physiology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi and Indian Society for Plant Physiology, New Delhi
 25. XXXIII Conference Of Indian Botanical Society and International Symposium On The New Horizons Of Botany organized by Department of Botany, Shivaji University, Kolhapur during 10th to 12th November, 2010.
 26. National Conference on Plant Physiology organized by Department of Plant Physiology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi and Indian Society for Plant Physiology, New Delhi during 25th to 27th November, 2010
 27. National Conference on “Frontiers of Plant Sciences for Sustainable Agriculture and Rural Development” Department of Botany, Arts, Science & Commerce College, Naldurg on 28th & 29th January 2011
 28. Two days State level seminar on Conservation and Cultivation of Traditional Medicinal Plants organized by R. B. Madkholkar Mahavidyalaya, Chandgad (Dist. Kolhapur) on 17th and 18th February 2011.
 29. Evaluation of invitro antioxidant potential of *Anogeissus latifolia* National conference on Integrated Pest Management & Bioremediation Organized by Department of botany L.B.S.College, Satara & Agriculture Department Z.P.Satara 13th-14th august 2012
 30. Effect of sodium fluoride on seed germination of wheat and gram National conference on Integrated Pest Management & Bioremediation Organized by Department of botany L.B.S.College, Satara & Agriculture Department Z.P.Satara 13th-14th august 2012
 31. Study of allelopathic potential of *Delonix regia*(box ex hook)raf National conference on Integrated Pest Management & Bioremediation Organized by Department of botany L.B.S.College, Satara & Agriculture Department Z.P.Satara 13th-14th august 2012
 32. Influence of herbal extracts on photosynthetic pigments of pea(*Pisum sativum* L) under water stress. National conference on Integrated Pest Management & Bioremediation Organized by Department of botany L.B.S.College, Satara & Agriculture Department Z.P.Satara 13th-14th

august 2012

33. Effect of PGR on seed germination and seedling growth of *Amaranthus gangeticus* L. National conference on Integrated Pest Management & Bioremediation Organized by Department of botany L.B.S.College, Satara & Agriculture Department Z.P.Satara 13th-14th august 2012
34. Effect of bark extracts of mangrove on seed germination of *Amaranthus paniculatus* And *Oryza sativa* . National Seminar on Medicinal plants – Status and Future organized by Department of botany, Shivaji University Kolhapur 6th-7th Nov 2012
35. Physico-Chemical characterization of enzymatically treated Morinda juice National Seminar on Medicinal plants – Status and Future organized by Department of botany, Shivaji University Kolhapur 6th-7th Nov 2012
36. Effect of Exogenous applications of plant growth regulators on some secondary metabolites of Medicinally important *Simarouba glauca* DC. National Seminar on Medicinal plants – Status and Future organized by Department of botany, Shivaji University Kolhapur 6th-7th Nov 2012.
37. Effect of growth regulators on *Simarouba glauca* DC. under water stress conditions. National Seminar on Medicinal plants – Status and Future organized by Department of botany, Shivaji University Kolhapur 6th-7th Nov 2012.
38. Effect of PGR & biotonics on polyphenols and flavonoid contents of *Amaranthus gangeticus* L. grown under saline conditions. National Seminar on Medicinal plants – Status and Future organized by Department of botany, Shivaji University Kolhapur 6th-7th Nov 2012
39. Influence of foliar applications of plant growth regulators on mineral nutrition in *Laxmitaru* (*Simarouba glauca* DC). National Seminar on Recent Trends in Life Science organized by Rajarshi Chhatrapati Shahu College Kolhapur 28th-29th January 2013
40. Antimicrobial activity of methanolic extract of mangrove bark National Seminar on Recent Trends in Life Science organized by Rajarshi Chhatrapati Shahu College Kolhapur 28th-29th January 2013.
41. Influence of PGR's on photosynthetic pigments of *Simarouba glauca* DC under water stress conditions. National Seminar on Recent Trends in Life Science organized by Rajarshi Chhatrapati Shahu College Kolhapur 28th-29th January 2013
42. Propagation studies of a medicinal plant – *Allophylus serratus* roxb.(kurz.) by stem cutting method. International conference on conserving biodiversity for sustainable development Department of biotechnology and medical engineering National Institute of Technology Rourkela, Odisha, India-16th -18th August,2013
43. Biocompatibility of leaf powders *Allophylus cobbe* (L.)Raeusch.National conference on recent trends in Biology:Nanoscience”organized by department of Zoology Dahiwadi college Dahiwadi 13th -14th December,2013
44. Effect of Drought and UV stress on Photosynthetic pigments of medically important oil yielding plant *Simarouba glauca* DC pp-19-22 International conference on advanced and applied material science organized by Gopal Krishna college, Kolhapur 15th-16th January 2014
45. Effect of foliar applications of plant growth regulators on enzymatic activity of alkaline phosphatase and ATPase in *Amaranthus gangeticus* L.under salinity stress. Pp-142-145 International conference on advanced and applied material science organized by Gopal Krishna college, Kolhapur 15th-16th January 2014
46. Exogenous application of plant growth regulators alleviates oxidative damage of medicinally important oil yielding plant *Simarouba glauca* DC. under water stress conditions. International conference on advanced and applied material science organized by Gopal Krishna college, Kolhapur 15th-16th January 2014
47. Influence of fluoride stress on photosynthetic pigments of medicinally important plant *Simarouba glauca* DC. National seminar on Future prospects of Biosciences organized by department of Botany Yashwantrao Motilal College, Pune 17th -18th January 2014
48. Phytochemical screening of methanolic stem bark extract of mangrove *Aegiceras corniculatum* (L.)BLANCO National Seminar on environment management and biodiversity conservation organized by abasaheb marathe arts and new commerce, science college, Rajapur -17th-18th January 2014

49. Effect of pre-sowing soaking pretreatments of PGRs on fatty acid composition of *Simarouba glauca* DC seed oil during germination. International conference on biodiversity, bioresources and biotechnology organized by association for the advancement of biodiversity science Mysore 30th-31st January 2014
50. Influence of plant growth regulators on nitrogen fraction of medicinally important oil yielding plant *Simarouba glauca* DC under stress conditions International conference on biodiversity, bioresources and biotechnology organized by association for the advancement of biodiversity science Mysore 30th -31st January 2014
51. Effect of fluoride stress on phenolic of medicinally important plant *Simarouba glauca* DC. International conference on biodiversity, bioresources and biotechnology organized by association for the advancement of biodiversity science Mysore 30th-31st January 2014
52. An attempt to solve taxonomical conflicts in *Basella alba* L. National level conference on "Life Sciences: An outlook and challenges" organized by department of Botany and Zoology Dahiwadi college Dahiwadi 12th -13th September, 2014
53. Effect of sodium fluoride on water relations of medicinally important oil yielding plant *Simarouba glauca* DC. National level conference on "Life Sciences: An outlook and challenges" organized by department of Botany and Zoology Dahiwadi college Dahiwadi 12th - 13th September, 2014
54. Changes in carbohydrate metabolism due to foliar application of PGR's of medicinally important oil yielding plant *Simarouba glauca* DC. under water stress conditions. National level conference on "Life Sciences: An outlook and challenges" organized by department of Botany and Zoology Dahiwadi college Dahiwadi 12th -13th September, 2014
55. Influence of exogenously applied plant growth regulators on enzymatic antioxidants in *Amarnathus gangeticus* L. grown under salinity stress National level conference on "Life Sciences: An outlook and challenges" organized by department of Botany and Zoology Dahiwadi college Dahiwadi 12th -13th September, 2014
56. Mali V.V., Bhoite A.S., and D.K. Gaikwad (2014). Influence of fluoride stress on photosynthetic pigments of medicinally important plant *Simarouba glauca* DC, National seminar on Future prospects of Biosciences organized by department of Botany Yashwantrao Mohite College, Pune 17th -18th January (Oral)
57. Mali V.V., Bhoite A.S., and D.K. Gaikwad (2014). Effect of fluoride stress on phenolic of medicinally important plant *Simarouba glauca* DC. International conference on biodiversity, bioresources and biotechnology organized by association for the advancement of biodiversity science Mysore 30th-31st January 2014 (oral)
58. Patil M.S., Bhoite A.S., and D.K. Gaikwad (2014). Effect of pre-sowing soaking pretreatments of PGRs on fatty acid composition of *Simarouba glauca* DC seed oil during germination. International conference on biodiversity, bioresources and biotechnology organized by association for the advancement of biodiversity science Mysore 30th-31st January 2014 (oral)
59. Awate P. D., Bhoite A.S., and D.K. Gaikwad (2014). Influence of plant growth regulators on nitrogen fractions of medicinally important oil yielding plant *Simarouba glauca* DC under stress conditions International conference on biodiversity, bioresources and biotechnology organized by association for the advancement of biodiversity science Mysore 30th -31st January 2014 (oral)
60. Mali V.V., Bhoite A.S., and D.K. Gaikwad (2014). Effect of sodium fluoride on water relations of medicinally important oil yielding plant *S. glauca* DC. National conference on Life Science : An outlook and challenges organized by Dahiwadi College, Dahiwadi. 12th -13th September, 2014 (oral).
61. Mali V.V., Bhoite A.S., and D.K. Gaikwad (2014). Phosphorus metabolism in medicinally important oil yielding plant *S. glauca* under fluoride stress. National Conference of plant Physiology – 2014 Frontiers of plant physiology Research : food security and environmental challenges organized by OUAT Bhubaneswar 23 to 25 November, (Poster).
62. Mali V.V., Bhoite A.S., and D.K. Gaikwad (2014). Sodium fluoride tolerance studies in medicinally important oil yielding plant *S. glauca* DC. XII Conference of society of Cytologists and Geneticists and National Symposium on challenges for Biologists in 21st century organized

- by Department of Botany, Shivaji University Kolhapur, 22nd to 24th December, 2014 (Poster).
63. Mali V. V., Bhoite A. S. and D. K. Gaikwad (2015) Effect Of Elevated Fluoride Concentrations On Chlorophylls Of Medicinally Important Oil Yielding Plant Simarouba Glauca Dc. International conference on contemporary research in chemical and life sciences-2015 organized by Sadguru Gadage Maharaj College, Karad, 22nd to 23rd April, 2015 (Accepted)
 64. Patil Sarika S.; Bhoite A.S., and D.K.Gaikwad.(2015) Effect Of Uv-B Radiation On Photosynthetic Pigments Of Medicinally Important Plant Simarouba Glauca Dc. International conference on contemporary research in chemical and life sciences-2015 organized by Sadguru Gadage Maharaj College, Karad, 22nd to 23rd April, 2015 (Accepted)
 65. Patil Manasi.S., Bhoite A. S. and Gaikwad D. K.(2015) Effect Of Pre-Sowing Treatments Of Pgrs On The Activity Of Enzyme Peroxidase In Simarouba Glauca Seedlings . International conference on contemporary research in chemical and life sciences-2015 organized by Sadguru Gadage Maharaj College, Karad, 22nd to 23rd April, 2015 (Accepted)
 66. Patil R. S.; Bhoite A. S. and Gaikwad D. K. (2015) Effect Of Foliar Applications Of Pgrs And Herbal Extracts On Carbohydrate Metabolism Of Soybean Under Waterlogging Conditions. International conference on contemporary research in chemical and life sciences-2015 organized by Sadguru Gadage Maharaj College, Karad, 22nd to 23rd April, 2015 (Poster)

2. Lectures delivered

1. **D. K. Gaikwad** (2011). Traditional Medicinal Plants. Lecture delivered at Two days State level seminar on Conservation and Cultivation of Traditional Medicinal Plants organized by R. B. Madkholkar Mahavidyalaya, Chandgad (Dist. Kolhapur) on 17th and 18th February 2011.

2. Extension activities and role of NSS State level conference on the role of research, consultancy and extension in higher education organized by Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya Tasgaon-29th-30th November 2013

Refresher Courses / Workshop :

1. Participated in UGC Sponsored one month orientation course at Goa Uni. (3 rd July to 29 th July 1989).
2. Participated in UGC Sponsored one month refresher course in Botany with special theme on "Biotechnology and Genetic engineering", Organized by Dept. of Life Sciences, Central Uni. Of Hydrabad (14 Feb to 11 March 1994).
3. Participated in UGC Sponsored one month refresher course in Botany with special theme on "Evolution", Organized by Dept. of Botany Shivaji Uni. Kolhapur (1Nov to 22 Nov 1995).
4. Participated in UGC Sponsored one month refresher course in Botany with special theme on "Recent Advances In Botany ", Organized by Dept. of Botany Dr. Babasaheb Ambedkar Marathwada Uni. Aurangabad (3 to 28 th July 1999)
5. Participated in one week workshop on "Horticulture " organized by Botany Club of Solapur District (Nov 1989).
6. Participated in seminar in the subject of Botany B.Sc II held on 20/02/1997 organized by Board of Studies Shivaji Uni. Kolhapur .
7. Participated in seminar in the subject of Botany B.Sc II held on 13/01/1998 organised by Board of Studies, Shivaji Uni. Kolhapur.

8. Participated in Workshop on *Cultivation of Grapes* Organised by Maharashtra Grape Growers Co-operative Society, Pune on 24 to 26 September 2002 at Marketyard Pune.
9. Participated in seminar in the subject of botany B.Sc I held on 15th to 17th Sept. 2003 organised by Board of Studies, Shivaji Uni. Kolhapur, at New College Kolhapur.
10. Participated in seminar in the subject of botany B.Sc II held on 15th Feb. 2004 organised by Board of Studies, Shivaji Uni. Kolhapur, at Science College Satara.
11. Participated in one day Training Workshop on Bacteriology, Water Analysis and Food Analysis organized by Public Health Laboratory, Kolhapur District on 10th August, 2004.
12. Participated in the workshop of botany B.Sc II UGC curriculum held on 26th to 28th August 2004 organised by Board of Studies, Shivaji Uni. Kolhapur, at Science College Karad.
13. Participated One Day workshop on Mangrove Awareness Programme under UGC – DRS1-SAP on 17th February 2008 jointly organized by Department of Botany, Shivaji University, Kolhapur and R. P. Gogate College, Ratnagiri.
14. Participated in Brain Storming Workshop on Medicinal Plants of Maharashtra Conservation and Utilization under Rajiv Gandhi Science and Technology Commission, Government of Maharashtra held at ARI, Pune during 04th – 05th March, 2008.
15. Attended meeting of P.I. for formulating the coordinated project on medicinal plants of Maharashtra, Conservation and Utilization conducted under Rajiv Gandhi Science and Technology Commission, Government of Maharashtra held at ARI, Pune on 07th April, 2008.

Co-curricular Activities & Activities Concerning Corporate Life :-

- Member of University Level Standing committee member, B.C. Cell, Shivaji University, Kolhapur.2007.
- Attended “ARSH SENSITIZATION” one day workshop organized by UNFPA-FWB, Pune and HFWTC, Kolhapur on 5th Dec. 2009.
- Attended 11th Maharashtra State Inter-University Youth Festival Indradhanushya-2013 during 5th and 9th Nov 2013.
 - Attended 43rd NSS refresher course on the theme ‘Global warming : Role that NSS volunteers can Play’ March 25 – 29, 2008 jointly organized by Tata Institute of Social Sciences Mumbai and Shivaji University Kolhapur.
- Attended a lecture on citation indexing and analysis by Dr. N. B. Dahibhate, NCL, Pune on 06.10.2006 during COURT 2006.
 - Attended a meeting of 100 billion plantation programme at dist. Collector office on 3/4/2012
 - Attended Brain storming workshop on medicinal plants of Maharashtra - Conservation and Utilization at ARI, Pune on 7th April 2008.
 - Attended district advisory committee meeting Nehru Yuva Kendra of Govt. of India on 19/12/2011
 - Attended district level youth festival satara. Organised by prof. Sambhji Rao Kadam Mahavidyalaya Devur on 1/10/2012
 - Attended HIV/AIDS State Level workshop ‘ Role of Universities in mitigating HIV/AIDS epidemic’ jointly organized by MUHS, Nashik and University of Mumbai, Mumbai on 28th January 2008.
 - Attended HIV/AIDS State Level workshop ‘ Role of Universities in mitigating HIV/AIDS epidemic’ jointly organized by MUHS, Nashik and University of Mumbai, Mumbai on 28th January 2008.
 - Attended library workshop on use of biological and chemical abstracts on 04. 08. 2006.
 - Attended meeting at office of dist. Collector to organize about programmes of about voters day on 06/01/2011.

- Attended meeting for the project “Digitized Inventory of Medicinal Plant Resources of Maharashtra” on 07/01/2011 in Agharkar Research Institute, Pune.
- Member of Ad-hoc Board in Environmental Science at Shivaji University, Kolhapur .
- Member of Board of studies of Botany Dept. Solapur University, Solapur on 12th Aug 2013.
- Attended meeting of Director Of Student’s Welfare for organization of 6th State Level Inter University Youth Festival “Indradhanushya-2008” on 26th August 2008 at YCMOU Nashik.
- Attended meeting of directors of student welfare under the chairmanship of H. H. Chancellor’s joint secretary on 4th November 2008 at YCMOU Nashik.
- Member of Lead College Apex Committee at Shivaji University, Kolhapur
- Attended meeting of NSS cell higher and technical education Dept. Govt. Maharashtra Organized by NSS Pune, University of Pune.
- Member of Ph. D. thesis (Spiral bound) scrutiny committee at Dept. Botany, Shivaji University, Kolhapur.
- Attended meeting of State Road Safety Drive Abhiyan-2013 organized by Police Commissioner of Road Traffic, Maharashtra, Mumbai .
- Member of the Board of Adult and continuing education and extension services at Shivaji University, Kolhapur .
 - Attended meeting of the project “Digitized Inventory of Medicinal Plant Resources of Maharashtra’ on 23/12/2011 in Agharkar Research Institute, Pune.
- Attended meeting State level programme of “Coordination meet and Educational rights Act” at NSS cell Higher and Technical Education Department, Mumbai.
- Member of Ph. D. (Botany) (Course Work) Preparation for improved pattern and syllabus organized by Solapur University, Solapur.
 - Member of NSS advisory meeting on 22.08.2006.to 2009
 - Attended NSS State advisory meeting at Raj Bhavan on 25/01/2011.
- Attended One Day Workshop for Principals of College in the jurisdiction of Shivaji University, Kolhapur on Coordination between University and College Administration On 10th October, 2008.
- Member of “Granth Mahotsav 2013” at Lokkala Kendra, Shivaji University, Kolhapur.
 - Attended state advisory board meeting July 2011 at Raj Bhavan Mumbai.
 - Attended state level meeting of road safety drive 2012 at additional director general of police, Mumbai on 09/12/2011.
 - Attended state level programme co-ordinators meet at Malabeleshwar on 24-25 March 2012.
 - Attended state level programme co-ordentor meet at pune uni. Pune on 29 aug. 2011
 - Attended the meeting for Kent Club prize distribution on 07/01/2012 in Shivaji University, Kolhapur.
 - Attended the opening ceremony of Red Ribbon Club and NSS on 26/07/2011 in Matoshri Bayabai Shripatrao Kadam Kanya Mahavidyalaya, Kadegaon.
 - Member of organizing committee Shikshrn Parishad 2012 organised by SUK & on 18 June 2012 TV. Chanel 24 Tass.
- Attended training workshop and project “Digitized inventory of Medicinal Plants Resources of Maharashtra sponsored by Rajiv Gandhi Science and Technology Gov. of Maharashtra held at Agharkar Res. Institute Pune on 14th and 15th Jan 2010.
- Celebrated Birth Anniversary of Bharatratna Dr. Babasaheb Ambedkar on 14th April 2009 at auspicious hands of Hon’ble Vice chancellor and organized lecture of Prof. R.G Dandge on “Economical Thoughts of Dr. Babasaheb Ambedkar”.
- Celebrated Birth Anniversary of Mahatma Gandhi on 2nd Oct. 2009.
 - Chaired session of UGC sponsored national conference on sponsor of plant science for sustainable agriculture and rural development organized by ASC college Naldurg on 28-29 Jan 2011.

- Chairman of Scrutiny Committee for Merit Scholarship of Shivaji University, Kolhapur on 4th May 2007.
- Chairperson of second session on Role of young people in Promotion of National Integration and spirit of Nationalism among masses at National International (NIC) camp on 21st Jan 2010 organized by Nehru Yuva Kendra Sangali Min. of Youth Affairs and Sports GOI.
- Chief Guest for NSS programme at New College, Kolhapur.
 - Conducted a survey of status of rural primary education with the help of NSS and Asar Resource Center, Mumbai during Sept. 2011 to Dec. 2012.
- Contributed as a member of syllabus committee for B. Sc part II in Botany subject of Solapur University, Solapur on 13th Sept. 2009.
- Contributed as a member of syllabus committee for M. Sc AGPM subject of Solapur University, Solapur on 28th Jan 2009.
- Contributed to organize Granth Mohotsav -2010 and Granth Dindi on 14th and 15th March 2010 during 46th Convocation .
- Convenor 28th Shivaji University Youth Festival District Level for Satara, Sangli and Kolhapur districts and Central Youth Festival in Sept. 2008 -2014.
- Convenor 29th Shivaji University Youth Festival District Level for Satara, Sangli and Kolhapur districts and Central Youth Festival in Sept. 2008 -2014
- Convenor of state level Inter University Youth Festival “Indradhanushya 2009” hosted by Shivaji University, Kolhapur .
 - Delivered lectures on organic farming in NSS special camp at Khotwadi organized by Jayawant Mahavidyalaya Ichalkaranji on 22/2/2012
 - Delivered a lect. on Opportunities in life science & Botany Hands on experiment sponsored by DST gov. of India New Delhi organized by Dr. Patangrao Kadam Mahavidyalaya. Sangli on 11/1/2013 on the occasion of internship programme 2012-13
 - Delivered guest lect. organized by MSW dept.in SIBER college Kolhapur on 22/03/2013
- Delivered Guest Lecture in UGC Sponsored National Level Symposium on Recent Trends in Teaching Technology organized by Dr. Patangrao Kadam College, Sangli on 21st March, 2009.
 - Delivered lect in 32 district level youth festival- inaugural function (Sangli Dist.)
 - Delivered lect in inaugural function of 32nd Kolhapur Dist. Youth Festival at Y.C. College and G.G.V.P. Junior College Halkarni, on 28th Sept. 2012.
 - Delivered lect in inaugural function of NSS organized by Matoshri bayabai Shriptrao Kadam kanya Mahavidyalaya Kadegaon on 19/7/2012.
 - Delivered lect in inaugural function of NSS organized by Sadaguru Gadage Maharaj college Karad. 24/8/12
 - Delivered lect in inaugural function of NSS organized by Shikshanmaharshi Bapuji Salunkhe Mahavidyalaya Karad. 23/7/12
 - Delivered lect in inaugural function of NSS organized by Y.C. college Karad – 24/8/12
 - Delivered lect in inaugural funs. NSS organized by Vivekand college Kolhapur on 31st Aug 2012
 - Delivered lect in NSS special camp at Kaneri organized by dept. of Education Mahavir Mahavidyalaya Kolhapur on organic training need of time on 1st January 2013.
 - Delivered lect in NSS special camp at SUK organized by Warna Mahavidyalaya Eatawade Khurd, Vittalrao Patil Mahavidyalaya Kale, S.B. Khade Mahavidyalaya Koparde during 5th – 11th Jan. 2013
 - Delivered lect in NSS special camp Eakondi organized by gov. Aoudhogik Prashikshan Sanstha Kolhapur. On 3/3/2013
 - Delivered lect in special NSS camp at Kaneriwadi organised by Vivekanand college Kolhapur on 31st January 2013
 - Delivered lect on organic Farming at Jaywant Mahavidhalaya Ichalkarji at Kotewadi 22/2/2012

- Delivered lect on organic organic training organized Agriculture college Kolhapur at Halondi on 15 Feb 2012.
- Delivered lect on Student representative and their responsibilities at one day workshop of lead college on 5th Oct. 2012 organized by SRNP Kanya Mahavidyalaya Sangli
- Delivered lect on the occasion of NSS day organized by Yashwantro Chavan Warana Mahavidyalaya Warnanagar on 24/09/2012
- Delivered lect. On imp of NSS in NSS special camp at Bharthi vidhayapeth Kolhapur on 12/2/2012 .
- Delivered lect. On personality development at Vidhathi bhavan 3/9/2011
- Delivered lect.on organic farming a need of time in NSS special camp at Bhasari on 6 Jan 2012.
- Delivered lecture in NET coaching workshop (12 . 03 . 2008 – 20 . 03 . 2008) organized by Department of Botany, Shivaji University, Kolhapur.
- Delivered lecture on “Healthy Youth for Healthy Nation” at Mohanrao. P. Patil Mahavidyalaya Borgaon Dist. Sangali. on 13th Dec.2009.
- Delivered lecture on “NSS –A Stress Free Life Style “at one day Lead College Workshop on NSS and Personality development on 3rd March 2010.
- Delivered lecture on “NSS and Youth” at Hon. Annasaheb Dange ASC College Hatkanagle on 12th Oct. 2009.
- Delivered lecture on “Organic farming” at Osmanabad Krushi Mohotsav 2009 on 1st June 2009.
- Delivered lecture on Effects of Chemical farming and Future of Organic Farming at workshop on Organic Farming organized by Agricultural Training and Management Association (ATMA) Dept. of Agricultural Gov. of Maharashtra at Grape growers association Nasik on 17th Feb 2010.
- Delivered lecture on Molecular basis of signal transduction NET/SET coaching workshop for Life sciences students on 12th Dec. 2009. at zoology Dept. Shivaji University, Kolhapur .
- Delivered lecture on personality development at Dr. Appasaheb Pawar Vidyarthi bhavan under Earn and Learn Scheme at Shivaji University Kolhapur 2013.
- Delivered lecture on Responses on Climate Change in one day workshop on Save Earth organized by Bharatiya Gyaan Vigyaan Samudaya, Pune and Department of Environmental Sciences, Department of Adult and Continuing Education and NSS Cell, Shivaji University, Kolhapur on 24th January, 2009.
- Delivered lecture to NSS volunteers on Science and Indian Culture at R. S. Arts and Commerce College, Rukadi on 28th Feb, 2008.
- Delivered lecture to NSS volunteers on the topic of “Healthy Youth for Strong India” Jan 2009 at Kale.
- Delivered lecture to NSS volunteers on the topic of “Role of NSS in Student Development” 14th February, 2009 at Miraj Mahavidyalaya, Miraj.
- Delivered lecture to PG students of UGC sponsored PG Diploma Biodiversity at Shri. Pancham Khemraj Mahavidyalaya, Sawantwadi on 4th November, 2008.
 - Delivered lecture to Remedial Coaching students at YCWM, Warananagar on 27th Sep 2007.
 - Delivered lectures in NSS special camp organized by Giristhan Arts and Commerce Mahavidyalaya Mahabaleshwar at Birwadi during 4th – 10th January 2013
 - Delivered lectures in NSS special camp organized by Shrimant Babasaheb Deshmukh Mahavidyalaya Atpadi on 24th -30th Sept. 2012
 - Delivered lectures in one day workshop of Yuvajagar Maharashtra Information Technology support center at Swami Ramanad Terth Marathwada University, Nanded on 7th March 2013
 - Delivered lectures in UGC Remedial coaching Program M.Sc.I on 2/3/2013 organized by Dept. of Botany SUK M.Sc.II on 12/2/2013
 - Delivered lectures on organic farming by New college Kolhapur on 30 Aug 2011

- Delivered lectures on analytical skills during National Science day at Dr. Sarwapalli Radhakrishnan B.Ed. college Uchgoan, Kolhapur on 28/2/2012
- Delivered lectures on analytical skills organic by New college Kolhapur on 30 Aug 2011
- Delivered lectures on organic farming and health in NSS special camp organized by SCAC College Kotole at Degavade on 29/12/2011
- Examiner for viva voce of M. Phil. dissertation of Shri. A. V. Patil. 9th April, 2008.
- Functional as chief guest and delivered lect in inaugural function organized by Willingdon College Sangli on 30/09/2012
- Functional as chief guest and delivered lect in one day workshop organized by Smt. Rajmati Nemgonda Patil Kanya Mahavidyalaya Sangli on 5th Oct. 2012.
- Functional as chief guest and delivered lect. in NSS day organized by Miraj Mahavidyalaya, Miraj on 24th Sept. 2012
- Functioned as a member of Revision of M. Sc. Syllabus committee, Shivaji University, Kolhapur
 - Functioned as a member of Revision of M. Sc. Syllabus committee.
 - Functioned as a member of selection committee for the post of UGC Research Fellow 2007 - 08.
 - Functioned as a member of selection committee for the post of UGC Research Fellow.
 - Functioned as a University Level Standing committee member, B.C. Cell, Shivaji University, Kolhapur.
- Functioned as Admission Committee Member for Dr. Appasaheb Pawar Earn and Learn Scheme, Shivaji University, Kolhapur. 2008 -2014
- Functioned as advisory committee member for Dr. Appasaheb Pawar Earn and Learn Scheme, Shivaji University, Kolhapur. 2008 -2014
- Functioned as advisory Committee member for World Wetlands Day Seminar on 2nd Feb 2009.
 - Functioned as chief guest & delivered lect on occasion of teacher's day organized by D.Y.Patil college of engineering & technology on 5th Sept. 2012.
 - Functioned as chief guest at the inaugural ceremony of NSS and delivered a lecture on Importance of NSS and communal Harmony. organized by Dr. Patangrao Kadam Mahavidyalaya Sangli on 17th Aug 2012.
- Functioned as chief guest for Prize Distribution of R.V Bhide Institute for the Handicapped in Hearing Miraj. On 16th Oct. 2010.
 - Functioned as chief guest of inaugural. Function fo NSS special camp and delivered leat. organized by ACS college Gadhinglij 5/1/2013 , 11/1/2013
- Functioned as chief guest of valedictory Function of NSS special life skill Shramsanskar camp at Miraj Mahavidyalaya, Miraj at Takali on 7th Jan 2010 .
 - Functioned as convener of Rally Committee and attended rally on the occasion of golden Jubilee, Shivaji University celebrating National Science Day 2012 on 28/02/2012 from Shivaji University to Rajarampuri and back.
- Functioned as co-ordinator for Nirmal Gram State Level inspection committee in Kolhapur District and inspected 504 villages 2008-09.
- Functioned as External / Internal referee for Viva voce of M. Phil. Dissertation of Shri.V.B. Mahadik at Dept. of Botany, Shivaji University, Kolhapur on 17th April 2009.
- Functioned as External / Internal referee for Viva voce of M. Phil. Dissertation of Smt. P.Y. Bagewadi at Dept. of Botany, Shivaji University, Kolhapur on 16th April 2009.
- Functioned as External / Internal referee for Viva voce of M. Phil. Dissertation of Smt. A. B. Patil at Dept. of Botany, Shivaji University, Kolhapur on 11th June 2009.
- Functioned as External / Internal referee for Viva voce of M. Phil. Dissertation of Smt. P. S. Pawar at Dept. of Botany, Shivaji University, Kolhapur on 19th Nov. 2009.

- Functioned as External / Internal referee for Viva voce of M. Phil. Dissertation of Smt. K. B. Patil at Dept. of Botany, Shivaji University, Kolhapur on 6th Jan. 2009.
- Functioned as External / Internal referee for Viva voce of M.Phil. Dissertation of Shri. V. V. Naik at Dept. of Botany, Shivaji University, Kolhapur on 6th June 2009.
- Functioned as Group Teacher in Remedial Coaching for SC/ST.
- Functioned as Hon'ble V. C. nominee on Selection Committee for reservation post of lectures at Kasegaon Education Society, Kasegaon Dist. Sangli, Appasaheb Birnale College of Pharmacy, Sangli and Jayvantrao Avale College of Education, Ichalkaranji.
 - Functioned as Hon'ble V.C. nominee on selection committee for reservation post of lectures at Kashegaon Education Society, Kasegaon Dist. Sangali, Appasaheb Birnale College of Farmacy, Sangali and Jayvantrao Avale College of Education, Ichalkaranji.
- Functioned as Honorable Vice Chancellor nominee for selection of Assistant Professor at Night College of Arts and commerce, Kolhapur on Feb. 2010.
- Functioned as Honorable Vice Chancellor nominee for selection of Assistant Professor at D.D. Shinde Sarkar College Kolhapur on 16th Oct 2010.
- Functioned as Honorable Vice Chancellor nominee for selection of Assistant Professor at Swami Vivekanad Sevashrum Sanstha Shirala Dist. Sangali on 28th March 2010.
 - Functioned as LIC member for approval of B.Sc. I at SMS Mahavidhalya Rahimatpur on 5/04/2011
 - Functioned as member of Alumni meet and attended the meeting on 10/10/2011 in Shivaji University, Kolhapur.
- Functioned as member of counseling committee for PG admission on 27 – 28 April, 2008 at Satara Centre.
- Functioned as member of Kent Club sponsored prices scrutiny & committee rules & regulation on 18/04/2012.
- Functioned as member of Local Advisory Committee and attended meeting of sensitization Workshop on “Fluoride in Water” on 14/03/2011 in Management Council Hall of Shivaji University, Kolhapur.
- Functioned as member of Local Advisory Committee and attended meeting for National Science Day 2012 on 03/02/2012 in Management Council Hall, Shivaji University, Kolhapur.
- Functioned as member of local inquiry Committee for approval of new college at Senapthi Kapasi, Dist. Kolhapur.
- Functioned as member of organization Committee of workshop on recent advance of research of RET sps of Western Ghat of forest officials on 12/01/2012.
- Functioned as member of organizing Committee for celebration of golden jubilee year of SUK from 18/11/2011 to 17/11/2012.
- Functioned as member of selection committee and attended meeting of one project fellow entitled “Geomedical studies and evaluation of ground water quality in Karveer Taluka, Dist. Kolhapur on 03/02/2011 in Department of Environmental Science, Shivaji University, Kolhapur.
- Functioned as member of Senate and attended the meeting on 08/02/2011 in Shahu Hall, Shivaji University, Kolhapur.
- Functioned as member of standing committee and attended meeting on 31/12/2011 and 07/04/2011.
- Functioned as member of students Aid fund 2011-12 and attended meeting on 19/03/2012 and 21/03/2011
- Functioned as member of syllabus sub-committee M.Sc. II (Botany) Solapur University, Solapur during December 2011.

- Functioned as member of the selection of best student welfare officer of pune uni. Pune on 1/04/2011
- Functioned as member of the site inspection of V.S. Khandekar Bhasha Bhavan Premises regarding the unlawful cutting of trees and attended meeting on 08/10/2011 in Shivaji University, Kolhapur.
- Functioned as member scrutiny committee for Ph. D. synopsis Jan 2008.
- Functioned as Member Secretary of Anti ragging squad for Boys and Girls Hostels.
 - Functioned as members of Store, Committee, Laboratory, Museum Maintenance Committee, Time-table Committee, Special subject distribution Committee, Visiting Scientist Committee and Counselling Committee for MSc. I on 04/06/2011 in Department of Botany, Shivaji University, Kolhapur.
 - Functioned as organization committee member of 44th convocation (2007-08).
 - Functioned as organizing committee member for National Workshop on Grass Systematics (3rd–8th March 2008).
 - Functioned as organizing committee member for NSD 2007 (from 21.02.2007 – 28.02.2007)
- Functioned as organizing Committee member for NSD 2009
 - Functioned as organizing committee member for World Wetlands Day Seminar on 02.02.2007.
 - Functioned as organizing Secretary for Maharashtra State Level inter Uni. Research competition - Avishkar 2012 (13/01/2012 – 15/01/2012).
- Functioned as Paper setter in Botany at M. Phil Exam (Research methodology in Botany) of Shivaji University, Kolhapur on Nov.2009.
- Functioned as Paper setter in Botany at M.Sc I and II exam of Shivaji University, Kolhapur on Oct.-Nov.2009.
- Functioned as Paper setter in Botany at M.Sc I and II exam of Shivaji University ,Kolhapur on April 2010.
- Functioned as Paper setter of M. Sc. II Exam AGPM at Solapur University, Solapur on Oct. 2009.
- Functioned as Paper setter of M. Sc. II Exam Botany at Solapur University, Solapur on Oct. 2009-April 2010.
 - Functioned as selection committee member for the post of UGC Research Fellow in Botany on 24th Dec 2007.
 - Functioned as subject Expert of lecture in Botany at YCWM, Warananagar on 5th Dec 2007.
- Functioned as Subject Expert on Placement Committee on UGC 5th Pay
 - Functioned as the external examiner of training programme – ‘identification and conservation of medicinal plants’ at S.G.M. College, Karad.
- Functioned as the external examiner of training programme- Identification and Conservation of Medicinal plants at S. G. M. College, Karad.
- Functioned as University Level Standing Committee member, B. C. Cell, Shivaji University, Kolhapur. (2008-09).
 - Incharge of Store Committee, Department of Botany.
 - Invited as guest of honor for world teachers days function on 5th oct. 2011 organized by dept. of education SUK.
 - Invited as guest of honor for world teachers days function on 5th oct. 2011 organized by dept. of education SUK.
 - Member of 44th Convocation organizing committee 8 Dec. 2007.

- Member of Admission Committee of Earn and Learn Scheme on 8th June 2007 and 22nd June 2007.
- Member of Advisory Committee Dr. Appasaheb Pawar Vidhyarthi Bhavan Earn and Learn Scheme and Attended meeting on 4th May 2007 and 18th Jan 2008.
 - Member of BOS Committee , Sub Committee for preparation of UGC New Syllabus in Botany , 2004
 - Member of Committee for UGC DRS SAP for Laboratory development (20 lakhs)
- Member of M. Sc. II syllabus sub-committee Solapur University, Solapur on 3rd May 2007.
- Member of organization committee for UGC SAP one day workshop on Mangrove Awareness Programme (MAP) on 17th Feb 2008.
- Member of organization committee of 2nd National workshop on Grass Systematics organized by Dept. of Botany, Shivaji University, Kolhapur on 3rd to 8th March 2008.
- Member of organizing committee of National Youth Festival, 2008 hosted by Shivaji University, Kolhapur.
 - Member of organizing committee for central camp at Shivaji University, Kolhapur Nov.–Dec. 2007.
 - Member of organizing committee for central camp at Shivaji University, Kolhapur Nov.–Dec. 2007.
 - Member of organizing committee for International Conference on Changing Scenario in Angiosperm Systematics.
 - Member of organizing committee for Mega State level central NSS camps for 4000 students for sanitation project in association with Nirmal Gram Scheme of Z.P. Kolhapur. DEC 2008
- Member of Selection Committee – Mahalaxmi Prize 2008.
 - Member of selection Committee for field collector at Botany Dept. on 6th July 2007.
- Member of Student's Aid Fund, Shivaji University, Kolhapur.
 - Member of syllabus setting COC advanced diploma in Biotechnology at Y. C. Warna Mahavidyala, Warnanagar on July 2007.
 - Member of University Admission Committee for M. Sc. Botany.
 - Nominated as a member of BOS in Botany, Solapur University, Solapur from Aug. 2011 and attended Meeting on 12/08/2011.
- Nominated as a member of interface meeting with special subject committee on Higher and Technical Education constituted by Vidharbha statutory Dev. Board, Nagpur on 14th Dec. 2009.
 - Nominated as member of Anti ragging cell on 25/05/2011 in Krushi Mahavidyalaya , Kolhapur.
 - Nominated as Member of Senate w. e. f. 06th September, 2008.
- Nominated by Honorable Vice chancellor to attend organization committee meeting of Kolhapur Mohotsav 2009-2010 at Dist. Collector Office on 7th Jan 2010.
 - Organized a workshop of a transit of venus in association with Bharat Gyanvigyan Samuday on 18/04/2012.
 - Organized 12th Babasaheb Ambedkar Jayanti 14/4/2011
 - Organized a lecture of Prof. Dr. S. N. Pathan, V.C., R. T. M. Nagpur University, Nagpur on 'Rashtrasant Tukadoji Maharaj Gram Unnoti Abhiyan' under NSS regular activities.
 - Organized a Mega State Level NSS AIDS awareness rally on 01/12/2011.
 - organized by Matoshri bayabai shriptarao kadam kanya Mahavidyalaya kadegaon on 26/09/2012.
 - Organized central organization and advisory committee meeting of State level inter uni-research competitions- Avishkar on 10/12/2011.
- Organized Chitrarath Rally during *Dasara Mahotsav* on 30.09.2006

- Organized district level NSS special camp at Inapur Tal-Gadhinglaj, Dist- Kolhapur from 22-28 Dec. 2011.
- Organized Granth Dindya on 25/1/2012 on the occasion of 48th convocation.
- Organized Leadership development camp “Shiledar Shibir 2009-2010” for Secretary to College students Council at Baha’i Academy Pachgani.
- Organized lecture “Noble Women of Sciences” of Dr. Anil Lachke during National Science Day 2010 on 18th Feb. 2010.
 - Organized lecture on Rashtra Saint Tukdoji Maharaj Gram Unnatti Abhiyan of Hon. Dr. S. N. Pathan, Vice Chancellor RTM University, Nagpur on 5th Nov 2007.
 - Organized NSS Special Camps for development of nursery at University campus during December 2011 to March 2012.
 - Organized past & present students meet – Shiv-Suvarn Mohasav 2011-12 on 26/02/2012
 - Organized state level meeting for programme co-ordenators sponsored by NSS cell, higher & technical edu. Gov of Maharashtra Mumbai on 8/4/2011
 - Organized State Level NSS Republic Day Parade Camp on 01-04 Dec. 2011.
- Organized study tour to M. Sc I students at Ulavi Jan 2010.
- Organized University Level workshop on “Save Girl Child” at Shivaji University Kolhapur on 22nd August, 2008.
- Organized workshop on Disaster management at Shivaji University Kolhapur on 16th March 2010.
 - Organized workshop[on implementation of 100 billion plantation programme for NSS programme officers and gramsevek and Tasildar at SUK on on 3/4/2012.
 - Organized Youth Leadership (Shiledar) Camp 28-30 Dec. 2011 at Bhahai Academy, Pachgani.
 - Participated & presented a paper in DST sponsored Sensitization of workshop fluoride in water organized by Dept of Envi. Sci. SUK on 22-23 March 2011
 - Participated as a co-ordinator in 9th Maharashtra State Inter uni. Youth festival – Indradunushya hosted by Maharashtra uni. of health sciences during 5-9 Nov 2011.
 - Participated as chief guest in the National conference on Integrated Pest Management and Bioremediation organized by dept. of Botany LBS College Satara. & Agricultural dept. Z.P. Satara during 13-14 Aug. 2012
 - Participated as guide in Drought Sumeet organized by Dalit Mahasangh and Center of man and nature development education and research at Atpadi on 18/4/2013
 - Participated state level programme co-ordinators meet & on right to education 13 Oct. 2011
 - Participated in ‘Project Genesis’ Global Skills Enhancement Programme organized by Infosys BPO at Mysore from 10 – 24 June 2007.
- Participated in ‘Project Genesis’ Global Skills Enhancement Programme organized by Infosys BPO at Mysore from 10 – 24 June 2007.
 - Participated in 1 day seminar on plant diversity conservation organized by dept. of botany SUK on 25th June 2013
 - Participated in 2 day workshop on A Brain-Storming Session for Application of Technology for Sustainable Development in the State of Maharashtra organized by Maharashtra Academy of Sciences (MASc) RGSTC and SUK on Nov. 26-27 2012
 - Participated in 2 day workshop on Research writing ethics, Plagiarism & Publish ability organized by IQAC SUK on 26-27 July 2012.
 - Participated in 2 days regional workshop on NSS organized by NSS cell GOA University on 5-6th Feb. 2011
 - Participated in CSTT sponsored conference on Importance of scientific Terminology of environmental Science in organized by dept of Environ. Sci. Marathi during 27 & 28 Oct. 2012
 - Participated in Dasara Mahotsava Chitraratha Rally alongwith NSS volunteers on

30.09.2006.

- Participated in faculty enrichment programme on 22nd Dec. 2012 in senate hall SUK organized by IQAC, NAAC Cell, SUK.
- Participated in International Conference on Changing Scenario in Angiosperm Systematics.
- Participated in international conference on sustainable water resource development and management organized by department of Envir. Sci. and local organizing committee on 20-21 Dec 2012.
- Participated in international lecture series Inauguration ceremony organized by Dnyaneshwar Mulay Education Society, The Global organization of people of Indian Origin, The Ministry of Overseas Indian Affairs and SUK on 10th Sept. 2012
- Participated in Lok-Manas programme telecasted by Sahyadri durdarshan on youth policy & personality development on 4 Nov. 2011 direct telecast from 5.00 to 6.00 pm
- Participated in national conference on imp scientific terminology in Envir. Sci. in regional Marathi language sponsored by ministry of HRDG gov of India on 27-28 Oct 2010.
- Participated in NSS programme Co-ordinator meet at NSS State Liaison Office Mantralaya, Mumbai on 18th March 2009.
 - Participated in one day workshop on challenges before higher edu. In 21st century on 21 dec. 2011
- Participated in One day workshop on Positioning NSS Globally organized by NSS cell Dept. of Higher and Technical Education, Gov. of Maharashtra at IIPS Mithibai college Mumbai on 27th April 2009.
 - Participated in one day workshop organized by Pune University Pune on 11 May 2012
 - Participated in one day workshop organized by Sosva training and Promotion Institute Pune at Kolhapur on 6 July 2013
 - Participated in organizing National Science Day – 2012 held at SUK during 22-28 Feb 2012
 - Participated in state level Avhan Team Manger meet at pune uni. At 18 Feb 2012
 - Participated in state level NSS workshop organized by pune university pune on 18-19 Feb 2011
 - Participated in state level programme co-ordinator meet at pune uni. pune on 17 Feb 2012
 - Participated in state level seminar on tourism and development organized by Maharashtra Tourism Development Corporation & NSS Cell higher & technical edu.gov. of Maharashtra at Lonawala on 08/12/2011.
 - Participated in state level social- cultural competition organized by NSS, higher technical education depart, gov. of Maharashtra and RTMNU. Nagpur. during 22- 24 Nov. 2011 on the occesion of Utkarsh 2011-12.
- Participated in state level workshop of NSS Function Maharashtra state jointly organized by NSS cell Function and Pune University, Pune at Silvasa, U.T. of Dadra and Nagarhaveli on 27th to 29th June 2009.
 - Participated in symposium on social integration organized by social inclusion & exclusion center & equal opportunity cell SUK on 29 oct 2010
 - Participated in the meeting for inventory of medicinal plant resources of Maharashtra at ARI, Pune on 7th April 2008.
 - Participated in the meeting for inventory of medicinal plant resources of Maharashtra at ARI, Pune
 - Participated in training programme on Right to information Act organized by Yashada. Pune on 21 Feb. 2012.
 - Participated in workshop on mangrove awareness at Ratnagiri on 21 Dec 2011.
 - Participated state level programme co-ordinators meet & on right to education 13 Oct. 2011
 - Ph.D. Admission – 8 students.
 - Physico-chemical characterization of enzymatically treated Morinda Juice.

- Prepared and submitted a proposal of center for youth development to Gov. of Maharashtra and Department of youth affairs, ministry of youth affairs act & sports, New Delhi during Nov. 2011.
- Presented research paper in national conference on recent trends in plant sciences sponsored by Academy of plant sciences. Held at TC College Bramanti on 3-5 Feb 2012.
- President of Uni level of NSS special camp inauguration function organized by Raje Ramrao Vidyalyaya Jat. 13/12/2011.
- Reviewed Pre Ph. D. Synopsis Scrutiny committee on 2013 at Dept. of Botany, Shivaji University, Kolhapur.
 - Selected as a member of Anti-Ragging Committee and Squad for boys and ladies Hostel, Shivaji University, Kolhapur. 09/01/2012.
- Served as external Examiner for M. Sc II practical exam at Solapur University, Solapur on 29th April 2009.
- Served as External Examiner for M. Sc II practical exam at Solapur University, Solapur on 6th Dec. 2009.
 - Served as Hon'ble V. C. nominee for selection of Lecturer at Shahajiraje Mahavidyalaya, Khatav Feb 2008.
- Served as member of counseling committee for SUK M. Sc I Admission June –July 2009.
- Served as member of Rules and Regulations committee for Kent Club Sponsored Prizes on 26th Oct. 2009.
- Served as member of steering committee National Science Day 2010 at SUK.
- Served as member of student Aid Fund Distribution committee 2009-2010.
- Served as organization committee member of National workshop on Ex-situ Plant Conservation in Maharashtra on 16th Sept. 2009.
- Served as Ph.D. thesis synopsis Scrutiny committee subject expert on 5th Sep. 2009.
 - Worked as a expert for framing syllabus of career oriented courses in Biotechnology at Y.C. Warna Mahavidyalaya, Warnanagar.