

RESUME

PROF. DR. JAYKIRAN ANANDRAO TIDKE



OFFICE:

Professor and Head

(Ex Pro-Vice-Chancellor, Ex Acting Vice-Chancellor and Ex Director BCUD)

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RESUME

Name : **TIDKE JAYKIRAN ANANDRAO**

Date of Birth : 09.01.1962

Address (Off.) : Professor and Head
Department of Botany
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Native : At. Sangvi Po. Durgwada Tq. Murtizapur
Dist. Akola. M.S. (India). 444112
Ph. No. 07256-282569

Nationality : Indian

I. Academic Career : M.Sc. (Bot.); B.Ed.; M.Phil. (Bot.); Ph.D.

II. Designation/Post held

- i) Lecturer in Botany** - 01.08.1986 (Part time)
01.08.1987 to 18.10.2000 (Regular)
Vidya Bharti Mahavidyalaya, Camp,
Amravati. 444602 (M.S.) India.
- ii) Reader in Botany** - 19.10.2000 to 28.10.2007
Department of Botany,
Sant Gadge Baba Amravati University,
Amravati. 444602. (M.S.) India.
- iii) Professor in Botany** - 29.10.2007 to 25.08.2011
Post-Graduate Department of Botany,
Sant Gadge Baba Amravati University,
Amravati. 444602.
- iv) Head of Deptt.** - i) From 01.05.2005 to 28.10.2007 (As a Reader)
ii) From 29.10.2007 to 25.03.2009 (As a Professor)
iii) From 26.11.2010 to 25.08.2011
iv) From 01.03.2016 to till the date

Department of Botany,
Sant Gadge Baba Amravati University,
Amravati. 444602, (M.S.) India.

- v) **Director** - 26.08.2011 to 03.09.2012
Board of College and University Development
SGB Amravati University, Amravati.
- vii) **Pro- Vice Chancellor** – 04.09.2012 to 23.2.2016
Sant Gadge Baba Amravati University,
Amravati. 444602.
- viii) **Vice-Chancellor (Acting)-** 05.06.2012 to 20.06.2012
28.10.2013 to 10.06.2014
10.05.2015 to 15.05.2015
Sant Gadge Baba Amravati University,
Amravati. 444602.

III. Teaching Experience: Total Teaching Experience: 25 years.

- **Under-Graduate level: 14 years** (Including one year part time)
- Department of Botany, Vidya Bharti Mahavidyalaya, Camp, Amravati, 444602. (01.08.1986 to 30.04.1987, Part-time).
 - Department of Botany, Vidya Bharti Mahavidyalaya, Camp, Amravati, 444602. (01.08.1987 to 18.10.2000, Full-time).
- **Post-Graduate level: 11 years (Regular)**
- Department of Botany, Sant Gadge Baba Amravati University, Amravati (19.10.2000 to 26.08.2011).
- **Post-Graduate level: 09 years (Contributory Teacher)**
- Department of Botany, Sant Gadge Baba Amravati University, Amravati (1991-2000).
 - Department of Botany, Vidya Bharti Mahavidyalaya, Camp, Amravati (22.09.1994 to 19.10.2000).

IV. Administrative Experience:

- Head:** Department of Botany, Sant Gadge Baba Amravati University, Amravati
- i) From 01.05.2005 to 28.10.2007 (As a Reader)
 - ii) From 29.10.2007 to 25.03.2009 (As a Professor)
 - iii) From 26.11.2010 to 25.08.2011
 - iv) From 01.03.2016 to till the date
- **Co-ordinator:** Internal Quality Assurance Cell, (NAAC), Sant Gadge Baba Amravati University, Amravati from 21.03.05 to 21.08.2007.
- **Director:** Board of College and University Development, SGB Amravati University from 26.08.2011 to 03.09.2012

- **Registrar (In charge):** Sant Gadge Baba Amravati University, Amravati from 14.04.2012 to 24.04.2012.
- **Pro-Vice-Chancellor :** Sant Gadge Baba Amravati University, Amravati from (04.09.2012 to 23.2.2016)
- **Vice-Chancellor (Acting):** Sant Gadge Baba Amravati University, Amravati
From 05.06.2012 to 20.06.2012
From 28.10.2013 to 10.06.2014
From 10.05.2015 to 15.05.2015

V. Research:

- **Title of Ph.D. Thesis** : *PALYNOLOGICAL INVESTIGATIONS ON SOME PLANTS OF PAPILIONACEAE*
- **Ph.D. Degree Year** : Notification No.200/90, Amravati University Gazette, date 29.10.99.
- **Name of Ph.D. Supervisor** : Dr.G.V.Patil
Ex Vice-Chancellor, Sant Gadge Baba Amravati University, Amravati.
- **Research Experience** : 22 years (from 1994 –2016)
- **Recognized as Research Guide** : i) Ph.D. Supervisor in subject Botany, Sant Gadge Baba Amravati University, Amravati, from 02.02.2001.
ii) Ph.D. Supervisor in subject Environ. Sci. Sant Gadge Baba Amravati University, Amravati, from 21.07.2007.
- **Post-doctoral Fellow** : Laboratory of Pollination Ecology, Institute of Evolution, Haifa University, Haifa (Israel).
17.02.2004 – 30.06.2004
- **Research Paper Published** : 42 (International-22, National- 20)
- **Papers Communicated** : 04
- **Book Edited** : 01
- **Paper Presented** : 91 (International- 37, National-54)
- **Conferences/Workshops /Seminars Attended** : 114 (International- 11, National-103)
- **Refresher/Orientation courses attended** : 06
- **Conference Organized** : 04 (International-2, National-2)

Convener / Patron

1. International Conference on Modern Trends in Plant Sciences with Special Reference to the Role of Biodiversity in Conservation (ICPSBC-05), 17th to 20th February-2005. Department of Botany, Amravati University, Amravati.
2. International Symposium and XXII Annual Conference of Indian Association for Angiosperm Taxonomy and Innovative Prospects in Angiosperm Taxonomy (ISIPAT-2012) 28th to 30th October 2012.
3. National Conference on Mycodiversity with its Sustainable Exploration and Biotechnology Application and 38th Annual meeting of Mycological Society of India., organized by Department of Botany, Shri Shivaji Science College, Amravati and Department of Botany, S.G.B. Amravati University, Amravati., 6th -7th February 2012.
4. National Conference on Advances and Innovations in Plant science (NCAIPS-2016) Organized by Department of Botany, Govt. Vidarbha Institute of Science and Humanities, Amravati in Collaboration with Department of Botany and Botany Teacher's Association Sant Gadge Baba Amravati University, Amravati 29th -1st March, 2016.

➤ **Workshops Organized** : 04**Convener/Patron**

- 1) Workshop on New UGC Curriculum, Department of Botany, Sant Gadge Baba Amravati University, Amravati, 12th Sep., 2004.
- 2) Workshop on 'Plant Tissue Culture' dated 26th February 2008.
- 3) Organized Workshops on Medicinal Plants and Environmental awareness Camps for villagers.
- 4) National Seminar cum Training programme on Research and Conservation of Biological Resources and The Biological Diversity Act-2002, 22nd January 2016.

➤ **No. of Students Awarded** : 15**Ph.D.**➤ **No. of Students Working** : 03
for Ph.D.**Details of Ph.D. Research Students and Research Topics:****Students Awarded Ph. D. Degree**

Sr. No.	Name	Title of Thesis	Date of Award
1	Ku. R.O. Dharamkar	Floral Biology and Pollination Ecology of Some Ornamental Seasonals	(Notification No. 100/2005, Date. 15/12/2005)
2	Mr.S.B.Thorat	Investigation on Reproductive Ecology and In-vitro Regeneration of Some Red Listed Medicinal Plants	(Notification No. 45/2008, Date. 20/02/2008)
3	Ku. S.B. Pund	Aeropalynological Studies of Amravati (M.S.)	(Notification No. 81/2008, Date. 16/10/2008)
4	Shri A.S.Dahat	Insect Pollination in Some Important Crop Plants	(Notification No. 81/2008, Date. 16/10/2008)
5	Ku. M.M. Dhore	Investigation on Nectar, Nectaries and Pollinator Diversity in Some Plants	(Notification No. 88/2009, Date.

			28/11/2009)
6	Ku. A.G. Thakre	Palynological Investigation on Some Varieties of Cotton	(Notification No. 121/2009, Date. 31/12/2009)
7	Mr. S.S. Nagarkar	Pollen Spectrum of Honey and Its Biochemical and Morphological Characterization	(Notification No. 47/2011, Date. 08/04/2011)
8	Mr. P.J. Kale	Management of Wild Pollinators for Higher Crop Yield	(Notification No. 59/2011, Date. 18//052011)
9	Mr. S.S. Rokade	Extraction, Antigenicity and Computational Analysis of Allergic Pollen Proteins	(Notification No.66/2012 , Date.06/07/2012)
10	Ku. S.A. Kukade	Investigations on Pollination and Pollen Pistil Interaction	(Notification No. 50/2013, Date. 11/07/2013)
11	Mr. S.S. Jadhao	Phytopathological Studies of Forest Plants of Yavatmal District	(Notification No. 57/2014, Date. 20/07/2014)
12	Mr. A.V.Rajurkar	Studies on flowering Plants From Amravati Region and Its Digitization By Using Soft Computing Tools	(Notification No. 40/2015, Date.13/022015)
13	Ku. C.V. Ugale	An Assessment of Impact of Heavy Metals on Pollen Structure and Function	(Notification No.52/2015, Date. 07/05/215)
14	Shri. V.R. Dhawale	An Efficient Algorithm For Pollen Classification Using Computational Intelligence Approaches	(Notification No. 66/2015, Date. 03/08/2015)
15	Ku. Y. B. Gawande	Studies on Pollen and Pistil Proteins involved in Pollen Pistil Interaction	(Notification No. 42/2016, Date. 18/02/2016)

Students Registered for Ph. D.

No.	Name	Title of Thesis	Date of Registration
1	Ku. V.C. Hinge	Investigations on Effects of Air Pollutants on Pollen Proteins and Their Allergenicity	SGBAU/Ph.D./BOT/07/2010 Date: 15/01/2010
2	Mr. V.R. Narkhedkar	<i>In vitro</i> studies on anther and pollen culture for haploid plant regeneration	SGBAU/Ph.D./BOT/5829/2013 Date: 15/01/2013
3	Ku. Yogita S. Mirge	Studies on pollination breeding system and genetic variability in <i>Ipomoea</i> species.	SGBAU/Ph.D./BOT/6994/2015 Date:15.07.2014

- **No. of Ph.D. thesis evaluated** : 06
- **No. of Students completed M. Phil.** : 04
- **Research Projects** : 03: Completed
01: Post doc fellow on Multinational Project at Haifa University, Israel.
- Abroad Countries visited** : Israel, Austria, Spain, France, Switzerland, Malaysia and United Kingdom.

Abroad Universities/ Institutes visited:

- 1 Haifa University, Israel
- 2 Viena University, Austria
- 3 Institute for Botanik , Viena University, Viena
- 4 Botanical Garden, Viena University, Viena
- 5 Oxford University, Oxford UK
- 6 London University, London UK
- 7 Kew Botanical Garden, London

1] Minor Research Project, UGC Unassigned Grants (2001-2003).

Title of the Project: *Pollen Flora and Melittopalynology of Amravati University Campus, Amravati University, Amravati. (31.01.2001 to 01.01.2003).*

2] Major Research Project, UGC New Delhi (2005-2007)

Title of the Project: *Management of Wild Pollinators for Higher Crop Yields (01.01.2005 – 31.12.2007).*

3] Major Research Project, Ministry of Forest and Environment (2000-2008)

Title of the Project: *Improvement of Infrastructure Facilities in Botanic Garden and Centre for Ex-situ Conservation of Rare/Endemic Plants. (04.10.2000 to 31.03.2008).*

4] International Research Project on Pollination Ecology (1st Feb.2004– 2009)

Title of the Project: *Assessing Large-Scale Environmental Risk with Tested Methods (ALARM).*

Conducted postdoctoral research work from 17.02.2004 to 30.06.2004 under the Multinational Research Project at Laboratory of Pollination Ecology, Institute of Evolution, Haifa University, Haifa (Israel) under the supervision of Prof. Amots Dafni and Prof. Gidi Neeman funded by European Union. The ALARM consortium combines the expertise of 54 partners from 26 countries and has a centrally funded programme for an initial period of five years, started from 1st February 2004.

➤ Patent:

1. **Title of Invention:** Reliable process for pollen classification from pollen images using computational intelligence.

Inventor: Sanjay Vasant Dudul, Jaikiran Anandrao Tidke and Vijay Ramchandra Dhawale

Application number: 1819/MUM/2015

Publication date: 22/05/2015

Journal number: 21/2015, Controller general of patents, Designs and Trademark, Department of industrial policy and promotion, Ministry of commerce and industry, India

➤ **Research Papers Published in International Journals:**

1. **Tidke, J.A.** and G.V.Patil (2000). Reproductive ecology of flower colour morphs of *Clitoria ternatea* Linn. *Inter. J. Trop. Agri.* 1118 (3): 211-218.
2. Dhore, M. M., D.U. Pochhi and **J. A. Tidke** (2000). Amino acids and sugars from floral nectars of some local plants. *J. Phytol. Res.* 13(2): 171-174. [**Impact factor: 0.304**]
3. Maurya, M.R., V.V.Parate, **J.A.Tidke** and P.R.Rajput (2003). Synthesis and growth promoting effects of some newly synthesized chlorosubstituted heterocycles on agricultural crop plants. *Asian Journal of Chemistry* 5(3) and (4): 1759-1763. [**Impact factor: 0.45**]
4. **Tidke, J.A.** and R.O.Dharmkar (2003). Flowering phenology, pollen production and insect behaviour in some ornamentals. *J. Phytol. Res.* 16 (1): 73-76. [**Impact factor: 0.304**]
5. **Tidke, J.A.** and S.G. Gawande (2005). Pollination ecology of *Lagerstroemia speciosa* Pers. *International Journal of Tropical Agriculture.* 23 (1-4): 55-59.
6. **Tidke, J.A.** (2005). Pollination ecology of *Crotalaria serisea* Retz. *J. Ind. Bot. Soc.* 84: 80-84.
7. Gomase V.S. and **Tidke J.A.** (2008). Prediction of antigenic MHC binders of Calreticulin protein from *Parthenium argentatum*. *International Journal of Bioinformatics.* 1 (1):37-44.
8. E.V.Upadhye, **J.A.Tidke** and G.V.Patil (2008). A petrified female strobilus from Mohgaonkalan, Madhya Pradesh, India. *The Palaeobotanist* 57: 443-448.
9. S. S. Rokade, **J. A. Tidke** and N. J. Chikhale (2010a). *In-Silico* characterization of pollen –specific protein Bnm 1 from *Arabidopsis thaliana* L. *International Journal of Genomics and Proteomics.* 1(1): 1-8.
10. S. S. Rokade, **J. A. Tidke** and N. J. Chikhale (2010b). Computational analysis of SRK protein from *Brassica oleracea* L. for allergic and antigenic characters. *International Journal of Genomics and Proteomics.* 1(1): 25-33.
11. **J. A. Tidke** and S. S. Nagarkar (2011) Honey as a regional bee floral indicator - A palynological assessment; *J. Indian Bot. Soc.* 89 (3 and 4): 234-333.
12. **J. A. Tidke** and S. B. Thorat (2011) Observations on reproductive biology of *Madhuca longifolia* Koen Macbr; *The International Journal of Plant Reproductive Biology.* 3(1): 47-54.

13. Rajurkar A. V., **Tidke J. A** and G. V. Patil (2011) Studies on pollen morphology of *Ipomoea* species (Convolvulaceae), ***Research in Plant Biology***. 1 (5) : 41-47. [**Impact Factor: 0.612**]
 14. **J.A. Tidke**, A. V. Rajurkar and V.R. Dhawale (2012) Scanning Electron Microscopic Studies on Pollen Morphology of *Bauhinia* (Caesalpiniaceae) ***Indian Journal of Fundamental and Applied Life Sciences*** (Online). 2 (1) January- March :145-151. [**Impact Factor: 1.54**]
 15. Ajay V. Rajurkar, **Jaikiran A. Tidke** and Sagar S. Jadhav (2013) Palynomorphological studies on family Mimosaceae. ***Int J Pharm Bio Sci*** 4 (3): (B) 273 – 279. [**Impact Factor: 5.121**]
 16. V.R. Dhawale, **J.A. Tidke** and S.V. Dudul (2013) Neural network based on pollen classification published in proceeding of International Conference on Advances in Computing, Communications and Informatics (ICACCI), organized Sri. Jayachamarajendra College of engineering (SJCE), Mysore.22-25 August, 2013.
 17. Sarita A. Kukade and **Jaikiran A. Tidke** (2014) Reproductive biology of *Dolichos lablab* L. (Fabaceae). ***Indian Journal of Plant Sciences*** Vol. 3 (2): 22-25.
 18. V.R. Dhawale, **J.A. Tidke** and S.V. Dudul (2014) Efficient classification of pollen grains using computation intelligence published in proceeding of International Conference for Convergence of Technology, organized by IEEE, Pune 06-08 April, 2014.
 19. **Tidke J.A.** and Nagarkar S. S. (2015) Pollen spectrum and Biochemical analysis of dominant pollen types represented by local honey samples. ***International Journal of Pharma Research and Review***. 4 (5): 21-33. [**Impact Factor: 3.6**]
 20. Narkhedkar V.R., **Tidke J.A.**, Chikhale N.J. and Bhusari S.N. (2016) Cold stress induced callogenesis from isolated anthers of *Catharanthus roseus* (L.) G. Don. ***International Journal of Pharma and Biosciences***. 7 (2): (B)
 21. Gawande Y. B. and **Tidke J. A.** (2016) Pollen and pistil morphodiversity in two species of *Cassia* (Caesalpiniaceae). ***Vidyabharati International Interdisciplinary Research Journal***. 5(4): 301-304.
 22. Rajurkar A. V. and **Tidke J. A.** (2016) Pollen morphodiversity in some genera of Euphorbiaceae. ***Vidyabharati International Interdisciplinary Research Journal***. 5(4): 309-312.
- **Research Papers Published in National Journals:**
1. **Tidke, J.A.** and G.V.Patil (2000). Floral biology and pollination biology of *Crotalaria serisea* Retz. ***Environment and Ecology*** 18(4): 1020-1022.
 2. **Tidke, J.A** (2003). Pollinator diversity, behaviour and floral rewards. ***Amravati University Research Bulletin***.1 (2): 71-73.

3. Dahat, A.S. and **J.A. Tidke** (2005). Crop pollination, diversity, behaviour and role of insect pollinators in *Gossypium hirsutum* L. and *Cajanus cajan* L. **Proc. ICPSBC-05**: 197-200.
4. Nathar, V.N., D.M. Kale, **J.A. Tidke**, S.R. Manik and U.S. Chaudhari (2005). Bio- chemical changes effected by 'Boron' on growth and development of Potato (*Solanum tuberosum* L.). **J. Comp. Toxicol. Physiol.** 02 (I and II): 18-27. **[Impact factor: 2.819]**
5. Dahat, A.S., **J.A. Tidke** and P.J. Kale (2007). Flowering phenology and insect pollination in *Brassica campestris* L. **J. Comp. Toxicol. Physiol.** 4(I-IV): 85-89. **[Impact factor: 2.819]**
6. **Tidke, J.A.** and R.O. Dharamkar (2006). A study on some aspects of the pollination biology of winter ornamental plant. **Advances in Pollen-Spore Research XXIV**: 117-127.
7. **Tidke, J.A.** and R.O. Dharamkar (2006). Pollination ecology of some seasonal ornamental plants. **Advances in Pollen-Spore Research XXIV**: 129-139
8. Pund, S.B., **J.A. Tidke** and P.J. Kale (2007). Preliminary observation on aeromicrobiota at Amravati City (M.S.). **J. Comp. Toxicol. Physiol.** 4(I-IV): 69-74. **[Impact factor: 2.819]**
9. **J. A. Tidke**, S. S. Nagarkar and S. S. Rokade (2009) Biochemical analysis of pollen grains of *Ipomoea fistulosa* L.; **Ind. J. Aerobiol.** 22 (1 and 2): 17 – 20. **[Impact Factor: 1.99]**
10. S. S. Rokade, **J. A. Tidke** and N. J. Chikhale (2010). Antigenic and allergic character predictions of putative cup s 1 pollen allergen protein from *Oryza sativa* pollen grains. In pre-conference proceeding of National Conference on "**Trends in Plant Sciences: Today and Tomorrow**", Department of Botany Shri. Shivaji College, Akot, Dist. Akola 444101. Maharashtra (India) pp.13-23.
11. **J. A. Tidke**, S. S. Rokade and N. J. Chikhale (2010) *Insilico* analysis of major pollen allergen Pha a 1 from *Phalaris aquatica* (Canary grass); **Ind. J. Aerobiol.** 23 (1): 18-27. **[Impact Factor: 1.99]**
12. **J. A. Tidke**, S. S. Nagarkar and S. S. Rokade (2010) Biochemical analysis of pollen grains of allergic pollen producing plant *Moringa oleifera* Lamk. Souvenir and Proceeding of "**Golden Jubilee National Symposium on Plant Diversity Utilization and Management**" during 27th to 29th May 2010 :110-114.
13. **Tidke J.A.** and Dahat A.S. (2011) Insect pollination, fruit set and seed yield in *Allium cepa* L. (Alliaceae); **The Botanique.** 15(1 and 2): 23-32. **[Impact Factor: 1.278]**
14. Gawande Y.B. and **Tidke J.A.** (2012) Studies on Pollen and Pistil Proetins involved in Pollen-Pistil interaction of *Ipomoea fistulosa* L. Published in **Proceeding of National Congress on Stepping up with Bioscientific Technology**, Organized by Shiksha mandals Jankidevi Bajaj College of Science, Wardha, 27th – 28th January 2012.
15. Kukade S.A. and **Tidke J.A.** (2013) Studies on pollination and reproductive

biology of *Pongamia pinnata* L. (fabaceae) *Indian Journal of Fundamental and Applied Life Sciences* (Online). 3(1) January-March:149-155. [Impact Factor: 1.54]

16. Dhawale V.R., **Tidke J.A.** and Dudul S.V. (2013) Reliable classification of pollen SEM images using walsh-hadamard transform based features and Neural network approach., Published in **proceeding (ISBN 978-81-922256-9-2) of National conference on “Recent Initiatives towards Green Electronics”** organized by Post Graduate Department of Electronics, Brijlal Biyani Science College, Amravati (Maharashtra), February 8th -9th :267-278.
17. Sarita A. Kukade and **Jaykiran A. Tidke** (2013) Inhibition of pollen Germination and tube growth in *Hamelia patens* (Rubiaceae). *The Botanique*. 17 (2): 84-89. [Impact Factor: 1.278]
18. Dhoran V.S., Gudhade S.P. and **Tidke J.A.** (2013) Seasonal incidence of airborne fungal spores of Amravati city. *The botanique*. 17 (2): 56-66. [Impact Factor: 1.278]
19. **Tidke J.A.**, Dhoran V. S. and Gudadhe S. P. (2013). Survey of airborne pollen grains from three different sites at Amravati (MS). *Ind J Aerobiol*. 26 (1 & 2): 11-23. [Impact Factor: 1.99]
20. Narkhedkar V.R., **Tidke J.A.**, Bhasme K. G. and Vanjari R. S. (2013). Survey of airborne pollen grains and fungal spores in university campus. *Ind J Aerobiol*. 26 (1 & 2):45-55. [Impact Factor: 1.99]

➤ **Papers communicated :**

1. **Tidke J.A.** and Ugale C.V. Effect of heavy metal on *in vitro* Pollen germination and tube growth. *Environmental Science and Technology*.
2. **Tidke J.A.** and Gawande Y.B. Pollen pistil interaction in *Datura inoxia* Mill: Studies on protein involved in these interactions. *Journal of Bioscience*.
3. **Tidke J.A.** and Gawande Y.B. Protein profile in floral nectar of *Gmelina philipense*. *Journal of Life Sciences*.
4. Varsha C. Hinge, **Jaikiran Tidke**, Biswadeep Das, Shrikant Bhute, Pradeep Parab and Kishori Apte. Air pollution exacerbates effect of Allergenic pollen proteins of *Cassia siamea*.

➤ **Research Papers Presented in International Conferences:**

1. Observations on floral visitors of some local plants. International Conference and world Apixo-2002, Century Foundation Bangalore, India, Feb.24th –Mar. 01st, 2002.
2. Bio-chemical changes effected by ‘boron’ on growth and development of potato (*Solanum tuberosum* L.). International Congress of Plant Physiology on Sustainable Plant Productivity Under Changing Environment, organized by Indian Society for Plant Physiology and International Association for Plant Physiology at Indian Agriculture Research Institute, New Delhi, India 8th–12th January, 2003.
3. Aspects of the pollination biology of winter ornamental plants, presented at International Conference on “Modern Trends in Plant Sciences with Special

- Reference to the Role of Biodiversity in Conservation, Department of Botany, Amravati University, Amravati, 17th to 20th Feb., 2005.
4. Crop pollination: diversity, behaviour and role of insect pollinator in *Gossypium hirsutum* L. and *Cajanus cajan* L. International Conference on Modern Trends in Plant Sciences with Special Reference to the Role of Biodiversity in Conservation. Department of Botany, Amravati University, Amravati, 17th to 20th Feb. 2005.
 5. Pollination ecology of *Adhatoda zeylanica* (Acanthaceae). International Conference on Modern Trends in Plant Sciences with Special Reference to the Role of Biodiversity in Conservation. Department of Botany, Amravati University, Amravati, 17th to 20th Feb., 2005.
 6. Computational analysis for programs and databases used in DNA sequencing. International Conference on Modern Trends in Plant Sciences with Special Reference to the Role of Biodiversity in Conservation, Department of Botany, Amravati University, Amravati, 17th to 20th Feb., 2005.
 7. Three new Ascomycetes from Maharashtra. International Conference on Modern Trends in Plant Sciences with Special Reference to the Role of Biodiversity in Conservation. Department of Botany, Amravati University, Amravati, 17th to 20th Feb., 2005.
 8. Observation on Pollination Ecology of Seasonal Ornamental Plants. XVII International Botanical Congress, Austria Centre Vienna, Austria, 18th to 23rd, July 2005.
 9. Petrified female strobilus from Mohgaonkalan, M.P., India. Diamond Jubilee International Conference Changing Scenario in Palaeobotany and Allied Subjects, organized by Birbal Sahni Institute of Palaeobotany, Lucknow, November 15th–17th, 2006.
 10. Free amino acids from pollen grains of some *Asteraceae* plants producing allergic pollen. XIV Annual Conference of Indian Association for Angiosperm Taxonomy and International Symposium on Angiosperm Systematics and Phylogeny: Retrospects and Propects, held at National Botanical Research Institute (NBRI), Lucknow. 12th to 14th November 2009.
 11. Computational analysis of SRK protein from *Brassica oleraceae* L. for allergic and antegenic characters. XIV Annual Conference of Indian Association for Angiosperm Taxonomy and International Symposium on Angiosperm Systematics and Phylogeny: Retrospects and Propects, held at National Botanical Research Institute (NBRI), Lucknow. 12th to 14th November 2009.
 12. Characterization of oleosin protein from *Arabidopsis thaliana* pollen. XXXII All India Botanical Conference and International Symposium on Diversity of plants and Microbes: Present Scenario, Organized by Department of P. G. Studies and Research in Applied Botany Kuvempu University Shankaraghatta, Shimoga Dist. (Karnataka) and Indian Botanical Society , 28th to 30th Dec. 2009
 13. Insect pollination, fruit set and seed yield in *Helianthus annuus* L. (Asteraceae). XXXII All India Botanical Conference and International Symposium on Diversity of plants and Microbes: Present Scenario, organized by Department of P. G. Studies and Research in Applied Botany Kuvempu University Shankaraghatta, Shimoga Dist. (Karnataka) and Indian Botanical Society Jaipur (Rajasthan). 28th to 30th Dec. 2009.
 14. Honey as a regional bee floral indicator – a palynological assessment through regional honey samples. XXXII All India Botanical Conference and International

- Symposium on Diversity of plants and Microbes: Present Scenario, Organized by Department of P. G. Studies and Research in Applied Botany Kuvempu University Shankaraghatta, Shimoga Dist. (Karnataka) and Indian Botanical Society Jaipur (Rajasthan). 28th to 30th Dec. 2009.
15. In-silico characterization of pollen-specific protein Bnm1 from *Arabidopsis thaliana* Advances in Biosciences: From Darwin to Dolly and Beyond. Held at Yeshwant Mahavidyalaya, Nanded - 431 602 (M.S.) India, 12th to 14th February, 2009.
 16. Nectar production, flower visitors and foraging behavior in *Quisqualis indica* L. (Combretaceae). XXXII All India Botanical Conference and International Symposium on Diversity of plants and Microbes: Present Scenario, Organized by Department of P. G. Studies and Research in Applied Botany Kuvempu University Shankaraghatta, Shimoga Dist. (Karnataka) and Indian Botanical Society , 28th to 30th Dec. 2009.
 17. The studies on pollen biology of *Hamelia patens* Jacq. (Rubiaceae). XXXIII Conference of India Botanical Society and International Symposium on New Horizons of Botany, organized by Department of Botany, Shivaji University Kolhapur, Maharashtra, 10th to 12th Nov 2010.
 18. Studies on pollen morphology of four species of *Ipomoea* (Convolvulaceae). XXXIII Conference of India Botanical Society and International Symposium on New Horizons of Botany, organized by Department of Botany, Shivaji University Kolhapur, Maharashtra, 10th to 12th Nov 2010.
 19. Insect pollination, fruit set and seed yield in *Capsicum annum* L. (Solanaceae); First Global Congress on Plant Reproductive Biology, organized by The Society of Plant Reproductive Biologist, Agra, 22nd to 24th Oct 2010.
 20. Observations on reproductive biology of *Madhuca longifolia* (Koen.) Macbr. First Global Congress on Plant Reproductive Biology, organized by The Society of Plant Reproductive Biologist, Agra, 22nd to 24th Oct 2010.
 21. Pollen spectrum and physicochemical properties of local honey samples. XXXIII Conference of India Botanical Society and International Symposium on New Horizons of Botany, Organized by Department of Botany, Shivaji University Kolhapur, Maharashtra, 10th to 12th Nov 2010.
 22. Studies on pollination and reproductive biology of *Pongamia pinnata* L. (Fabaceae). XXXIII Conference of India Botanical Society and International Symposium on New Horizons of Botany, organized by Department of Botany, Shivaji University Kolhapur, Maharashtra, 10th to 12th Nov 2010.
 23. Application of Scanning Electron Microscopy for taxonomic discrimination of *Bauhinia* species presented at International Conference on Electron Nanoscopy & XXXII Annual Meeting of EMSI jointly organized by Electron Microscope Society of India (EMSI) and Defense Metallurgical research Laboratory DMRL), Hyderabad, July 6th -8th ,2011.
 24. Nectar production, composition and pollinator diversity in some local species., presented at International Conference on Conservation and Management of Pollinators, September 14th -17th , 2011, Kuching, Sarawak, Malaysia.
 25. Study of pollen morphology of some selected varieties of cotton. [poster] presented at International Symposium and XXII Annual Conference of Indian Association for Angiosperm Taxonomy on Innovative prospects in Angiosperm Taxonomy (ISIPAT-2012) organized by Department of Botany. Sant Gadge Baba Amravati University, Amravati-444602 (M.S.), 28th -30th October 2012.

26. Palynomorphological variations in some genera of Malvaceae. [poster] presented at International Symposium and XXII Annual Conference of Indian Association for Angiosperm Taxonomy on Innovative prospects in Angiosperm Taxonomy (ISIPAT-2012) organized by Department of Botany. Sant Gadge Baba Amravati University, Amravati-444602 (M.S.), 28th -30th October 2012.
27. Morphological and Cytochemical studies on the stigma and style in some legumes. [poster] presented at International Symposium and XXII Annual Conference of Indian Association for Angiosperm Taxonomy on Innovative prospects in Angiosperm Taxonomy (ISIPAT-2012) organized by Department of Botany. Sant Gadge Baba Amravati University, Amravati-444602 (M.S.), 28th - 30th October 2012.
28. Active biomonitoring of heavy metal pollution by pollen. [oral] presented at International Symposium and XXII Annual Conference of Indian Association for Angiosperm Taxonomy on Innovative prospects in Angiosperm Taxonomy (ISIPAT-2012) organized by Department of Botany. Sant Gadge Baba Amravati University, Amravati-444602 (M.S.), 28th -30th October 2012.
29. Studies on pollen and pistil proteins involved in pollen-pistil interaction of *Datura innoxia* L. [poster] presented at International Symposium and XXII Annual Conference of Indian Association for Angiosperm Taxonomy on Innovative prospects in Angiosperm Taxonomy (ISIPAT-2012) organized by Department of Botany. Sant Gadge Baba Amravati University, Amravati-444602 (M.S.), 28th -30th October 2012.
30. Role of insect pollination in increasing fruit set and seed yield in *Raphanus sativus* L. (Brassicaceae). [poster] presented at International Symposium and XXII Annual Conference of Indian Association for Angiosperm Taxonomy on Innovative prospects in Angiosperm Taxonomy (ISIPAT-2012) organized by Department of Botany. Sant Gadge Baba Amravati University, Amravati-444602 (M.S.), 28th -30th October 2012.
31. Pollination ecology of *Rauvolfia serpentina* (Linn.) Benth. Ex. Kurz. (Apocynaceae). [poster] presented at International Symposium and XXII Annual Conference of Indian Association for Angiosperm Taxonomy on Innovative prospects in Angiosperm Taxonomy (ISIPAT-2012) organized by Department of Botany. Sant Gadge Baba Amravati University, Amravati-444602 (M.S.), 28th -30th October 2012.
32. Micro-morphological study of *Daldinea concentrica* (Bolten : Fries Cesati and De Notaries), from Yavatmal District Forest (M.S.), [Poster] Presented at International Conference on Mycology and Plant Pathology, Biotechnological Approaches ICMPB- 2012., organized by Centre of Advanced Study in Botany, Banaras Hindu University, Varanasi- 221005, India., 27th -29th February, 2012.
33. SEM based assessment of pollen diversity in some genera of family Leguminosae. [oral] presented at the XXXIII annual meeting of the electron microscopy society of India, organized by Indian institute of science and South zone chapter of EMSI, Bangalore 2nd -4th July 2012.
34. Image segmentation for pollen classification using image processing tools; International Symposium and XXII Annual conference of Indian Association for Angiosperm Taxonomy (ISIPAT-2012), Organized by Department of Botany SGBAU, Amravati., 28th -30th October 2012.
35. Pollen viability and Germination as indicator of air pollution, presented at Fifth international conference on plants and environmental pollution, February 24th -

27th, 2015 organized by International society of Environmental botanist and CSIR National Botanical Research Institute, Lucknow, India

36. Pollen morphological study of selected cotton varieties (Malvaceae), presented at Fifth international conference on plants and environmental pollution, February 24th-27th, 2015 organized by International society of Environmental botanist and CSIR National Botanical Research Institute, Lucknow, India
37. An assessment of pollen diversity in some Cassia species based on SEM studies [Poster] presented at the XXXVI annual meeting of the electron microscopy society of India, organized by Bhaba atomic research centre, Trombay, Mumbai and EMSI, West zone chapter, Bangalore 8th -10th July 2015.

➤ **Research Papers Presented in National Conferences:**

1. Palynological investigations in *Artabotris odoratisimus* R.Br. Fifth all India Symposium on Palynology, Department of Botany, Institute of Science, Nagpur, Oct.7th –9th, 1987.
2. Pollination Ecology and floral Biology of *Crotalaria serisea* Retz. Conference on Recent Trends in Botany, Department of Botany, Amravati University, Amravati, Dec., 6th –8th, 1993.
3. Pollination Ecology of *Crotalaria serisea* Retz. 22nd All India Botanical Conference. Shri Vile Parle Kelvani Mandals Mithibai College of Arts, Chauhan Institute of Science and A.J.College of Com. and Eco. and local organising Committee, Vile Parle (W), Mumbai 400056, Oct.23rd –25th 1999.
4. Floral Biology and pollination of *Crotalaria serisea* Retz. 10th National Conference on Aerobiology and its Applications. Department of Botany, Andhra University, Vishakhapatnam 530003, A.P., Dec.20th –22nd, 1999.
5. Pollinator diversity, behaviour and floral rewards. National Conference on Frontiers in Biotechnological Aspects of Plant Sciences, organised by Department of Botany, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad-431004 (M.S.) 30th-31st Jan.2002.
6. Role of mycorrhizal mushroom in forest ecosystem. Seminar on Mushroom Technology. Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola and Shri Shivaji Agriculture College, Amravati, 21st -22nd March 2002.
7. Observations on pollen flora of Pohara Forest (Amravati). Silver Jubilee Conference of Indian Botanical Society and National Symposium on Biosciences: Advance Impact and Relevance. Department of Plant Sciences, MJP Rohilkhand University, Bareilly. 27th-29th Oct.2002.
8. Chemical analysis of honey collected from Pohara Forest. XVIII National Symposium on Recent Trends in Life Sciences with Special Reference to Wildlife and Conservation. Post Graduate Department of Zoology, Amravati University, Amravati 444602, Nature Conservation Society, Amravati (MS) and Indian Society of Life Sciences, Kanpur (UP) 16th to 19th November, 2002.
9. Flowering phenology, pollen production and insect behaviour in some ornamentals. National Conference on Biodiversity-Past and Present organized by The Botanical Society, Lucknow 28th – 29th November 2002.
10. Synthesis and growth promoting effects of some newly synthesized chlorosubstituted heterocycles on agriculture crops. National Conference on Ethnobotany, Biodiversity and Conservation, organized by Department of

Botany, Shri Shivaji College of Arts, Commerce and Science, Akola, 18th -19th January 2003.

11. Preliminary observations on some qualitative analysis of airborne biocomponents at Amravati. 13th National Conference on Aerobiology (Silver Jubilee Celebration), Department of Botany, Institute of Science, Nagpur, 31st Jan. to 2nd Feb., 2005.
12. Preliminary Observations on Aeromicrobiota at Amravati City (M.S.). School of Studies in Biotechnology, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh 15th to 17th Jan., 2007
13. Flowering Phenology and Insect Pollination in *Brassica campestris* L. and *Sesamum indicum* L. National Conference on Recent Advances in Biology organized by S.N. Mor Arts, Comm. And Smt. G. D. Saraf Science College, Tumsar, Dist. Bhandara, 2nd and 3rd Feb. 2007.
14. Observations on some aspects of pollination in *Cajanus cajan* (L.) Millsp. (Fabaceae). XXX Botanical Conference (Indian Botanical Society) National Seminar, "Emerging trends in Plant Science: Biodiversity, Biotechnology and Environmental Conservation, 28th–30th November, 2007. Organized by School of Studies in Botany, Jiwaji University, Gwalior, (M.P.).
15. Nectar dynamics, flower visitors and foraging behaviour in *Citrus limon* (L.). XXX Botanical Conference (Indian Botanical Society) National Seminar, "Emerging trends in Plant Science: Biodiversity, Biotechnology and Environmental Conservation, 28th –30th November, 2007. Organized by School of Studies in Botany, Jiwaji University, Gwalior, (M.P.).
16. Qualitative analysis of trapped pollen and spores from spider webs. XXX Botanical Conference (Indian Botanical Society) National Seminar, "Emerging trends in Plant Science: Biodiversity, Biotechnology and Environmental Conservation, 28th –30th November, 2007. Organized by School of Studies in Botany, Jiwaji University, Gwalior, (M.P.).
17. Observations on nectar production and flower visitors in *Bignonia unguis-cati* L. (Bignoniaceae). National Conference on Recent Trends in Biosciences, Deptt. of Bot., Zoo. and Enviro. Sci., Institute of Science, Nagpur, 20th to 21st January, 2009.
18. Insect Pollination, fruit set and seed yield in *Coriandrum sativum* L. (Apiaceae). National Conference on Recent Trends in Biosciences, Deptt. of Bot., Zoo. and Enviro. Sci., Institute of Science, Nagpur, 20th to 21st January, 2009.
19. Biochemical analysis of pollen grains of dominant allergenic pollen producing plant *Ipomoea fistulosa* L. 15th National Conference on Aerobiology and National Symposium on Plant, animal and Human Health, Deptt. of Life Sciences, Manipur University, Imphal. 6th to 8th March 2009.
20. Prediction of allergic and antigenic characters of major pollen allergen pha a 1 from *Phalaris aquatica* (Canary grass). 15th National Conference on Aerobiology and National Symposium on Plant, animal and Human Health Deptt. of Life Sciences, Manipur University, Imphal. 6th to 8th March 2009.
21. Antigenic and allergic character predictions of putative cup s 1 pollen allergen protein from *Oryza sativa* pollen grains. National Conference on "Trends in Plant Sciences: Today and Tomorrow" organized by Department of Botany Shri.

- Shivaji College, Akot, Dist. Akola 444101. Maharashtra (India) during 22nd – 23rd February, 2010.
22. Nectar production, chemical composition and flower visitors in *Butea monosperma* (Lamk.) (Papilionaceae) National Conference on “Trends in Plant Sciences: Today and Tomorrow” organized by Department of Botany Shri. Shivaji College, Akot, Dist. Akola 444101. Maharashtra (India) during 22nd – 23rd February, 2010, during 22nd – 23rd February, 2010.
 23. Biochemical analysis of pollen grains of allergenic pollen producing plant *Moringa oleifera* Lamk. ; Golden Jubilee National Symposium on Plant Diversity Utilization and Management, organized by Department of Botany, University of Kerala, 27th to 29th May 2010.
 24. Pollination ecology *Allium cepa* L. (Alliaceae). Golden Jubilee National Symposium on Plant Diversity Utilization and Management, Organized by Department of Botany, University of Kerala, 27th to 29th May 2010.
 25. Biochemical analysis of dominant pollen types represented by local honey samples. XVIII Congress of the Federation of European Societies of Plant Biology (FESPB) 2010, organized by Grupo Geysco. C/Universidad, 446003 Valencia, Spain, 4th to 9th July 2010.
 26. Comparative study for allergenicity of pollen specific protein from *Zea mays* using computational tools; 16th National Conference on Aerobiology and National Symposium on Applications of Biotechnology in Environment Management and Medicine, organized by Department of Biotechnology and Environmental Study Center of Bapuji Institute of Engineering and Technology, SS Institute of Medical Sciences and Research Center and JJM Medical College Davangere, Karnataka, 19th to 21st Nov 2010.
 27. Monitoring environment for airborne pollen and its relation to climatic factors; 16th National Conference on Aerobiology and National Symposium on Applications of Biotechnology in Environment Management and Medicine, organized by Department of Biotechnology and Environmental study center of Bapuji Institute of Engineering and Technology, SS Institute of Medical Sciences and Research Center and JJM Medical College Davangere, Karnataka, 19th to 21st Nov 2010.
 28. Intraspecific pollen morphological diversity in some varieties of *Gossypium hirsutum* L. presented at XXXIV All India Botanical Conference, Organized by Department of Botany, University of Lucknow, Lucknow, October 10th -12th , 2011.
 29. Computational analysis of l-ascorbate oxidase homolog protein for allergenicity from *Nicotiana tabacum* pollen; ‘XXXIV All India Botanical Conference’ organized by Department of Botany, University of Lucknow, during 10th to 12th October 2011.
 30. Effect of air pollution on protein profile and biochemical properties of allergenic pollen of *Cassia siamea* presented at XXXIV All India Botanical Conference, Organized by Department of Botany, University of Lucknow, Lucknow, October 10th -12th, 2011.
 31. Allergenicity prediction of homeobox-leucine zipper protein hox1 from *Oryza sativa* pollen using bioinformatics tools; “National Conference on Innovations in

- Bio-Sciences” organized by RA Arts, SMK Com. and SR Rathi Science College Washim, MS (India) during 14th-15th October 2011.
32. SEM based pollen morphodiversity in two species of Euphorbia (Euphorbiaceae) presented at National Seminar on Status of Biodiversity in India 2010-11, organized by Department of Botany, R.D.I.K. College, Badnera and Indian Science Congress Association, Kolkata- Amravati Chapter., 10th -11th December 2011.
 33. Wood decaying in *Acacia leucophloea* (Roxb.) wild by *Schizophyllum commune* presented at National Seminar on Status of Biodiversity in India 2010-11. Organized by Department of Botany, R.D.I.K. College, Badnera and Indian Science Congress Association, Kolkata- Amravati Chapter. 10th -11th December 2011.
 34. Insect pollination, fruit set and seed yield in *Brassica campestris* L. (Brassicaceae) presented at National Seminar on Status of Biodiversity in India 2010-11. Organized by Department of Botany, R.D.I.K. College, Badnera in and Indian Science Congress Association, Kolkata- Amravati Chapter. 10th -11th December 2011.
 35. Floral diversity and insect behavior in Narsamma garden community, Amravati, Maharashtra, presented at National Seminar on Status of Biodiversity in India 2010-11. Organized by Department of Botany, R.D.I.K. College, Badnera and Indian Science Congress Association, Kolkata- Amravati Chapter. 10th -11th December 2011.
 36. Performance evaluation of pollinators and study of flowering phenology in *Gossypium hirsutum* L., presented at National Seminar on Status of Biodiversity in India 2010-11, organized by Department of Botany, R.D.I.K. College, Badnera and Indian Science Congress Association, Kolkata- Amravati Chapter., 10th -11th December 2011.
 37. Studies on pollen and pistil proteins involved in pollen-pistil interaction of *Ipomoea fistulosa* L., presented at National Congress on Stepping up with Bioscientific Technology, organized by Shiksha Mandals Jankidevi Bajaj College of Science, Wardha, 27th – 28th January 2012.
 38. Micro-morphological study of *Ganoderma lucidum* (Curtis: FR) P. Karsten, Root Rot in *Butea monosperma* (Lam.) Taub., presented at National Conference on Mycodiversity with its Sustainable Exploration and Biotechnology Application and 38th Annual meeting of Mycological Society of India., organized by Department of Botany, Shri Shivaji Science College, Amravati and Department of Botany, S.G.B. Amravati University, Amravati., 6th -7th February 2012.
 39. A survey of airborne pollens grains from three different sites at Amravati (M.S.) [oral] presented at 17th National conference of Indian Aerobiology Society Pune on Impact of Airborne Microbes, jointly organized by MAEER’s Arts, commerce and Science college, Pune and MAEER’s Maharashtra Institute of pharmacy, Pune, 13th -15th December, 2012
 40. Survey of airborne pollen grains and fungal spores in university campus of Amravati (M.S.) [oral] presented at 17th National conference of Indian Aerobiology Society Pune on Impact of Airborne Microbes, jointly organized by

- MAEER's Arts, commerce and Science college, Pune and MAEER's Maharashtra Institute of pharmacy, Pune, 13th -15th December, 2012
41. Pollen as an antisolar agent: A new tread to Palynopharmacology. [oral] presented at 17th National conference of Indian Aerobiology Society Pune on Impact of Airborne Microbes, jointly organized by MAEER's Arts, commerce and Science college, Pune and MAEER's Maharashtra Institute of pharmacy, Pune, 13th -15th December, 2012
 42. Effect of air pollutants on biochemical composition of allergenic pollens of three plants collected from Amravati and Aurangabad cities of Maharashtra state. [oral] presented at 17th National conference of Indian Aerobiology Society Pune on Impact of Airborne Microbes, jointly organized by MAEER's Arts, commerce and Science college, Pune and MAEER's Maharashtra Institute of pharmacy, Pune, 13th -15th December, 2012
 43. Palynomorphological studies in some genera of Mimosaceae. [Oral] presented at national conference on Advances in life sciences : Present and Future (AILSPF-2013) organized by Department of Botany and Zoology, Vidya Bharati Mahavidyalaya, Amravati in collaboration with S.S.S.K.R. Innani Mahavidyalaya, Karanja (Lad), January 11th -12th 2013.
 44. Reliable classification of pollen SEM images using walsh-hadamard transform based features and Neural network approach. Presented at National conference on "Recent Initiatives towards Green Electronics" organized by Post Graduate Department of Electronics, Brijlal Biyani Science College, Amravati (Maharashtra) - 444605. February 8th -9th 2013.
 45. Pollen as an Antisolar gent: A new tread to Palynopharmacology. Presented at Anvenshan AIU Student research Convention (Central zone) 2012-13 organized by Association of Indian universities and hosted by KIIT, Bhubaneswar during 10th -12th February 2013.
 46. Pollen as an Antisolar agent: A new tread to Palynopharmacology. Presented at Anvenshan AIU Student research Convention (National) 2012-13 organized by Association of Indian Universities and hosted by TISS, Mumbai during 20th - 22nd march 2013.
 47. Pollen morphological studies in some genera of family Lamiaceae. presented at 37th All India Conference of The Botanical Society and national Symposium on Biodiversity and Climate Change in collaboration with Maharashtra state biodiversity board, Under the agies of University of Mumbai, November 7th -9th 2014 organized by Department of Botany, kelkar education trust, V.G. Vaze college of Arts, Science and Commerce, Mithaghar road, Mulund (East) Mumbai- 400081 Maharashtra (India).
 48. Bioindication of air pollution with pollen from urban environment, presented at 37th All India Conference of The Botanical Society and National Symposium on Biodiversity and Climate Change in collaboration with Maharashtra state biodiversity board, Under the agies of University of Mumbai, November 7th -9th 2014 organized by Department of Botany, kelkar education trust, V.G. Vaze college of Arts, Science and Commerce, Mithaghar road, Mulund (East) Mumbai- 400081 Maharashtra (India).

49. Investigation on secondary metabolites in *Lagerstroemia speciosa* (L.) Pers. Pollen using GC-MS. Presented at National conference on sustainable chemistry: frontiers and challenges (NCSC-2015), January 31-31st, 2015 organized by Brijlal Biyani Science college, Amravati.
50. Influence of various pretreatments on callus induction in anther culture of *Catharanthus roseus* (L.) G. Don. [Poster] 37th Meeting of Plant Tissue Culture Association (India) and National Symposium on "Plant Biotechnology for Crop Improvement", Organized by Tissue Culture and Transformation Laboratory CSIR National Botanical Research Institute, Luck now, 25th -27th February 2016.
51. Pollen Production of some selected *Gossypium* varieties (Malvaceae). [Poster] National Conference on Advances and Innovations in Plant science (NCAIPS-2016) Organized by Department of Botany, Govt. Vidarbha Institute of Science and Humanities, Amravati in Collaboration with Department of Botany and Botany Teacher's Association Sant Gadge Baba Amravati University, Amravati 29th-1st March, 2016.
52. Pollen Morphodiversity in some Genera of Family Bignoniaceae. [Poster] National Conference on Advances and Innovations in Plant science (NCAIPS-2016) Organized by Department of Botany, Govt. Vidarbha Institute of Science and Humanities, Amravati in Collaboration with Department of Botany and Botany Teacher's Association Sant Gadge Baba Amravati University, Amravati 29th-1st March, 2016.
53. Pollen and pistil morphodiversity in two species of *Cassia* (Ceasalpiniaceae). [Oral] National Conference on Recent Trends in Conservation of Biodiversity (NCRTCB-2016) Organized by Department of Life Sciences, S.S.S.K.R. Innani Mahavidyalaya, Karanja (Lad) in Collaboration with Vidyabharati Mahavidyalaya, Amravati, 12th March 2016.
54. Pollen morphodiversity in some genera of Euphorbiaceae. [Poster] National Conference on Recent Trends in Conservation of Biodiversity (NCRTCB-2016) Organized by Department of Life Sciences, S.S.S.K.R. Innani Mahavidyalaya, Karanja (Lad) in Collaboration with Vidyabharati Mahavidyalaya, Amravati, 12th March 2016.

VI. International Conference/Symposium/Seminar/Workshop Attended:

1. International Conference on Modern Trends in Plant Sciences with Special Reference to the Role of Biodiversity in Conservation, Department of Botany, Amravati University, Amravati, 17th to 20th Feb., 2005.
2. Nomenclature Section, Vienna, XVII International Botanical Congress, IAPT – International Association for Plant Taxonomy, Vienna (Austria), 12th to 16th, July, 2005.
3. XVII International Botanical Congress, Austria Centre, XVII International Botanical Congress, Austria Centre Vienna, Austria. 18th to 23rd, July 2005.
4. Diamond Jubilee International Conference: Chaning Scenario in Palaeobotany and Allied Subjects, Birbal Sahni Institute of Palaeobotany, Lucknow, November 15th -17th, 2006.
5. International Conference on Advances in Biosciences: From Darwin to Dolly and Beyond, held at Yeshwant Mahavidyalaya, Nanded - 431 602 (M.S.) India, 12th to 14th February, 2009.

6. XIV Annual Conference of Indian Association for Angiosperm Taxonomy and International Symposium on Angiosperm Systematics and Phylogeny: Retrospects and Propects, held at National Botanical Research Institute (NBRI), Lucknow. 12th to 14th November 2009.
7. XXXII All India Botanical Conference and International Symposium on Diversity of Plants and Microbes: Present Scenario, organized by Department of P. G. Studies and Research in Applied Botany Kuvempu University Shankaraghatta, Shimoga Dist. (Karnataka) and Indian Botanical Society, during 28th to 30th Dec. 2009.
8. XVIII Congress of the Federation of European Societies of Plant Biology (FESPB) 2010, organized by Grupo Geysco. C/Universidad, 446003 Valencia, Spain, during 4th to 9th July, 2010.
9. First Global Congress on Plant Reproductive Biology, Organized by The Society of Plant Reproductive Biologist, Agra, 22nd -24th Oct. 2010.
10. XXXIII Conference of India Botanical Society and International Symposium on New Horizons of Botany, Organized by Department of Botany, Shivaji University Kolhapur, Maharashtra, 10th to 12th Nov. 2010.
11. International Conference on Conservation and Management of Pollinators, September 14th -17th, 2011, Kuching, Sarawak, Malaysia.

VII. National Conference/Symposium/Seminar/Workshop Attended:

1. Fifth All India Symposium on Palynology. Department of Botany, Institute of Botany, Nagpur, Oct. 7th -9th, 1987.
2. Maharashtra State Education Conference on Current Issue and Innovation in Higher Education, Shri Shivaji College of Education, Amravati, Jan.29th -31st, 1992.
3. Conference on Recent Trends in Botany, Department of Botany, Amravati University, Amravati, Dec.6th -8th, 1993.
4. NSS Officers Workshop, 3rd - 4th, Nov.1996.Amravati University, Amravati.
5. Apiculture Training Programme, Maharashtra State Khadi and Gram. Mandal and Madhamasha Palan Sanstha Mahabaleshwar, 14th to 20th Feb.1997.
6. 22nd All India Botanical Conference Shri Vile Parle Kelvani Mandals Mithibai College of Arts, Chauhan Institute of Science and A.J.College of Com. and Eco. and local organising committee, Vile Parle (W), Mumbai 400056, Oct. 23th -25th, 1999.
7. 10th National Conference on Aerobiology and its Applications. Department of Botany, Andhra University, Visakhapatnam 530003, A.P., Dec.20th -22nd, 1999.
8. Workshop on "Energizing Curriculum for Up gradation of Standards", TRDEA, Amravati University, Amravati, July 14th-15th 2001.
9. State Level Symposium on Application of Genetic Engineering, Department of Botany, Dr. Ambedkar College, Deeksha Bhoomi, Nagpur, 6th Jan.2002.
10. National Conference on Frontiers in Biotechnological Aspects of Plant Sciences, Department of Botany, Dr Babasaheb Ambedkar Marathwada University, Aurangabad-431004 (M.S.), 30th -31st Jan.2002.
11. Seminar on Mushroom Technology, Dr.Punjabrao Deshmukh Krishi Vidyapeeth, Akola and Shri Shivaji Agriculture College Amravati, 21st -22nd March 2002.
12. Silver Jubilee Conference of Indian Botanical Society and National Symposium on Biosciences: Advance Impact and Relevance. Department of Plant Sciences, MJP Rohilkhand University, Bareilly .27th-29th Oct.2002.

13. XVIII National Symposium on Recent Trends in Life Sciences with Special Reference to Wild- life and Conservation. Post Graduate Department of Zoology, Amravati University, Amravati 444602, Nature Conservation Society, Amravati (MS) and Indian Society of Life Sciences, Kanpur (UP) 16th to 19th November, 2002.
14. Workshop on Electronic Herbarium and Digital Database Preparation organized by Department of Botany, The Institute of Science, Mumbai; sponsored by UGC and DAE- BRNS from 17th to 18th February 2003.
15. National Workshop on Municipal Solid Waste Management, Department of Microbiology, Amravati University, Amravati, July 25th –26th, 2003.
16. ASHWAMEDH-2003, VII Maharashtra State Inter University Sports Meet, Amravati University, Amravati, 27th Nov. to 1st Dec., 2003.
17. Workshop on Molecular Biology, Department of Zoology, Amravati University, Amravati, 1st –2nd Aug., 2004.
18. Workshop on New UGC Curriculum, Department of Botany, Amravati University, Amravati, 12th Sep., 2004.
19. Workshop on Janglatil vanasptincha vras aani upay jointly organized by TRDEA and Department of Botany, Amravati University, Amravati and P.N.College, Pusad, 20th Jan 2005.
20. 13th National Conference on Aerobiology (Silver Jubilee Celebration), Department of Botany, Institute of Science, Nagpur, 31st Jan. to 2nd Feb., 2005.
21. State level Workshop on State wise Analysis of Accreditations Report- Maharashtra, National Assessment and Accreditation Council, Bangalore and Quality Assurance Cell Higher and Technical Education Department, Government of Maharashtra, at Sanhyadri State Guest House, Malbar Hill, Mumbai 17th October 2005.
22. National Workshop on Re-Accreditation of College and Universities, AAIDO and IQHE, Bangalore, 7th to 11th October 2005.
23. Emerging Trends in Medicinal Plants and Their Biotechnological Advances, Department of Botany Dr. Ambedkar College, Nagpur, 5th and 6th Jan., 2007.
24. 14th National Conference on Aerobiology School of Studies in Biotechnology, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh, 15th to 17th Jan., 2007.
25. Modern Approaches and Innovations in Biotechnology and Biodiversity Conservation, Department of Biotechnology and Biological Sciences Shri Shivaji Science College, Amravati, 28th to 30th Jan., 2007.
26. One Day Seminar on “Recent Trends in Life Sciences”, Post Graduate Department of Botany, Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur, 14th August 2008.
27. Training Programme on Bio-informatics in Data Analysis of Genes and Proteins, Bioinformatics Centre of BTISnet, Department of Biotechnology, Sant Gadge Baba Amravati University, Amravati, 5th to 7th September, 2008.
28. National Conference on Recent Trends in Biosciences organized by Department of Botany, Zoology and Environmental Science, Institute of Science, Nagpur during 20th to 21st January, 2009.
29. 15th National Conference on Aerobiology and National Symposium on Plant, Animal and Human Health, Deptt. of Life Sciences, Manipur University, Imphal. 6th to 8th March, 2009.
30. National Seminar on Biotechnology for Agriculture, Health, Industry and Environment, College of Agriculture, Nagpur, 20th to 21st February 2010.
31. National Conference on Trends in Plant Sciences: Today and Tomorrow organized by Department of Botany, Shri. Shivaji College, Akot, Dist. Akola 444101. Maharashtra (India) during 22nd – 23rd February.

32. One day workshop for farmers on “Rearing of Honey Bee and Honey Production”, Department of Botany and Department of Zoology, Arts, Commerce and Science College, Arvi, Dist. Wardha. 19th September 2009.
33. TRDEA workshop on Science and Environment, Z.P. School, Deulgaon, Tq. Akot, Dist. Akola, 29th March 2010.
34. Golden Jubilee National Symposium on Plant Diversity Utilization and Management, Organized by Department of Botany, University of Kerala, during 27th to 29th May 2010.
35. 16th National Conference on Aerobiology and National Symposium on Applications of Biotechnology in Environment Management and Medicine, organized by Department of Biotechnology and Environmental Study Center of Bapuji Institute of Engineering and Technology, SS Institute of Medical Sciences and Research Center and JJM Medical College Davangere, Karnataka, during 19th to 21st Nov. 2010.
36. Golden Jubilee Celebrations and National Seminar on “ Technical Terminology in Indian Languages” organized by Commission for Scientific and Technical Terminology, Ministry of Human Resource Development, Department of Higher Education, New Delhi, during 27th to 29th April 2011.
37. National Seminar on Status of Biodiversity in India 2010-11, organized by Department of Botany, R.D.I.K. College, Badnera in collaboration with Indian Science Congress Association, Kolkata- Amravati Chapter, 10th -11th December 2011.
38. National Conference on Mycodiversity with its Sustainable Exploration and Biotechnology Application and 38th Annual meeting of Mycological Society of India., organized by Department of Botany, Shri Shivaji Science College, Amravati and Department of Botany, S.G.B. Amravati University, Amravati., 6th -7th February 2012.
39. Seminar on Eco Diversity and Its Management organized by Department of Botany, Sant Gadge Baba Amravati University, Amravati on 29th February 2012.
40. National Seminar cum Training programme on Research and Conservation of Biological Resources and The Biological Diversity Act-2002, 22nd January 2016.
41. National Conference on Advances and Innovations in Plant science (NCAIPS-2016) Organized by Department of Botany, Govt. Vidarbha Institute of Science and Humanities, Amravati in Collaboration with Department of Botany and Botany Teacher’s Association Sant Gadge Baba Amravati University, Amravati 29th-1st March, 2016.
42. National Conference on Recent Trends in Conservation of Biodiversity (NCRTCB-2016) Organized by Department of Life Sciences, S.S.S.K.R. Innani Mahavidyalaya, Karanja (Lad) in Collaboration with Vidyabharati Mahavidyalaya, Amravati, 12th March 2016.

VII. Conference/Symposium/Seminar/Workshop attended as a Chief guest/Inaugurator/Chairperson/Speaker.

- 42 Chief Guest at the Valedictory Function, National Seminar, K.L. Kadhi Mahavidyalaya, Achalpur. 30/1/2012
- 43 Inaugurator, National Conference on Economics, Malkapur, 4/2/2012.
- 44 Chief Guest, Educational Research Planning Workshop under MHRD/NMEICT Mission, Shri Shivaji Science College, Amravati. 25/2/2012
- 45 Inaugurator, Workshop of Mahila Sarpanch, 29/2/2012
- 46 Conference, Buldhana, 17-18/3/2012
- 47 Chief Guest at the Valedictory Function, Feminism in Contemporary India-2012, Viyda Bharti Mahavidyalaya, Amravati. 30/3/2012
- 48 Chairman, at the Valedictory Function. Physics Conference 29/5/2012
- 49 Chief Guest Dr. B.H. Pawar, Felicitations Programme University Auditorium, SGB Amravati University, 31/5/2012
- 50 Chief Guest Dr. B.R. Waghmare, Controller of Examinations Felicitations programme University Auditorium, SGB Amravati University, 31/7/2012
- 51 Chief Guest, University Website inauguration function, New Management Council Hall, SGBAU, 6/9/2012
- 52 Chief Guest, History Conference, Late Dattatraya Pusadkar Mahavidyalaya, Nandgaon Peth, 8/9/2012
- 53 Chief Guest, Yuwa Mahotsava, Dr. Babasaheb Nadurkar Mahavidyalaya, Yavatmal, 2/10/2012
- 54 Chief Guest, Gramgita Lecture Series, K.L. College, Amravati. 5/10/2012
- 55 Chief Guest, Gramgita Lecture Series, Shri Sant Gajanan Maharaj College of Engineering, Shegaon, 6/10/2012
- 56 Chief Guest, District Level Workshop on Disaster Management, Amolakchand Mahavidyalaya, Yavatmal. 20/10/2012
- 57 Chief Guest, NCRTP -2012, Mungsaji Maharaj Mahavidyalaya, Darwha, Distt. Yavatmal, 26/10/2012
- 58 Inaugurator, N.S.S.'s Special Camp, Village- Pardi by Takshashila Mahavidyalaya, Amravati., 1/12/2012
- 59 Inaugurator, Spider Workshop, Deptt. of Zoology, SGB Amravati University. 1/12/2012
- 60 National Aerobiological Conference, MIT, Pune. 13-15/12/2012
- 61 Chief Guest, Lecture Series, Shri Shivaji Science College, Akola
- 62 Inaugurator, National Conference on Lasers and Their Applications, B.B. Arts, N.B. Commerce & B.P. Science College, Digras. 28/12/2012
- 63 Chairman, Lecture Series Buddhist Study Centre, A.V. Theatre S.G.B. Amravati University, Amravati. 29/12/2012
- 64 Chairperson, Inter-Collegiate Research Festival Avishkar – 2012, Deptt. of Botany, SGB Amravati University. 2/1/2013
- 65 Inaugurator, special N.S.S. Camp, Shri Shivaji Agriculture College, Amravati. 3/1/2013
- 66 Chairman, Valedictory function, National Seminar on “Trends in Nano-Biotechnology, Deptt. of Bio-Technology, SGB Amravati University. 4/1/2013
- 67 Chief Guest at the Inaugural Function, Golden Jubilee Inauguration Function, Kisanlal Nathmal Arts & Science College, Karanja Lad. 5/1/2013

- 68 Chairperson, One Day Special Workshop for Ph.D. Students in the Faculty of Social Sciences, Deptt. of Sociology, SGB Amravati University. 10/1/2013
- 69 Chief Guest, National Conference on “Advances in Life Sciences: Present and Future”, Vidya Bharati Mahavidyalaya, Amravati. 12/1/2013
- 70 Chairperson, National Reading Day, Deptt. of Library, SGB Amravati University. 19/1/2013
- 71 Chief Guest, Three Days Workshop on “Aero-Modeling “ IBSS College of Engineering, Ghatkheda, Amt. 21/1/2013
- 72 Guest, National Science Day – 2013 “Genetically Modified Crops and Food Security, Dept. of Botany, SGB Amravati University. 29/1/2013
- 73 Inaugurator, One Day Workshop on “Women’s Self-Defense”, jointly organized by University Women’s Study Centre & HVPM. 31/1/2013
- 74 Chief Guest, Workshop on “Vision for Career”, Mungsaji Maharaj Mahavidyalaya, Darwha, Distt. Yavatmal, 1/2/2013
- 75 Chairman at the Valedictory Function, Workshop on “Patents and Intellectual Property Management”, Deptt. of Physics, SGB Amravati University. 7/2/2013
- 76 Chief Guest, National Conference on “Recent Initiatives towards Green Electronics”, Brijlal Biyani Science College, Amravati. 9/2/2013
- 77 Guest of Honour, National Science Day – 2013 “Genetically Modified Crops and Food Security, Deptt. of Botany, SGB Amravati University. 16/2/2013
- 78 Chairperson, Vasantrao Naik Lecture Series, Babasaheb Naik College of Engineering, Pusad 23/2/2013
- 79 Chief Guest at the Valedictory Function, UGC Sponsored National Conference on “World Trade Organization and International Trade”, Vidya Bharti Mahavidyalaya, Amravati. 23/2/2013
- 80 Chief Guest , National Level Technical Event of Tech-Know Exports-2013 on “Automation for Small Scale Industries”, Prof. Ram Meghe Institute of Technology & Research, Badnera 27/2/2013
- 81 Chief Guest, Marathi bhasha gaurav din vyakhyanmala, P.G. Department of Marathi, S.G.B. Amravati University, Amravati. 27/2/2013
- 82 Guest of Honour at the Valedictory Function, National Science Day-2013, Deptt. of Botany, SGB Amravati University. 28/2/2013
- 83 President, Shahiri Training for University Students, Student Welfare Department, S. G. B. Amravati University, Amravati, 28/2/2013.
- 84 Chief Guest, Technical Festival PAROKSHA-2013, G.H. Rasoni College of Engineering, Anjangaon Bari, Amravati. 1/3/2013
- 85 Chairman, University Level Competition on “Organometalics in Organic Synthesis” Department of Chemistry, Sant Gadge Baba Amravati University, Amravati, 22/3/2013
- 86 Inaugurator, State Level Seminar on “Electronic Library” Nankibai Wadhvani College, Yavatmal, 31/8/2013
- 87 Chairperson One day Seminar on “Vivekanand Inclusive perspective on Education” Department of Education, Sant Gadge Baba Amravati University, Amravati, 20/9/2013

- 88 Chairperson, National Conference on “The Impact of British Rule on Indian Economy” Smt. S.R.Mohta College for Women’s, Khamgaon, Distt. Buldana, 27/9/2013
- 89 Inaugurator, State Level Seminar on “Electronic Library Initiatives & Applications” Smt. Nankibai Wadhvani Arts College, Yavatmal, 01/10/2013
- 90 Inaugurator, National Level Seminar on “Nutrition and Health Problem of Farm Labouring , Pregnant & Lactating Women” Sant Gadge Maharaj Mahavidyalaya, Murtizapur, Distt. Akola, 07/10/2013
- 91 Chief Guest, National Conference in Library Science, Phulsing Naik Mahavidyalaya, Pusad, 14/12/2014.
- 92 Inaugurator, Rajyastariy Charchasatra Sark Deshyache Shitudhhotar Parrashta Dhoranatil Shittantare, G. B. Muraraka Mahavidyalaya Shegaon, 24/12/2014
- 93 Chairman, Ek Divsiya Rashtiya Sangoshti, Shrimati Kesharbai Lahoti Mahavidyalaya, Amravati, 24/12/2014
- 94 Chief Guest, National Conference on “Voice Culture, It’s Role in Mass Teaching of Music” Smt. Surajdevi Ramchandra Mohta College of Womens, Khamgaon, Distt. Buldana 9/1/2015
- 95 Chief Guest, National Interdisciplinary Seminar on “Human Rights and Present Scenario” Matoshri Subhadrabai Patil Arts, Commerce College, Manora, Distt. Washim. 7/2/2015
- 96 Chairman of Valedictory function, International Interdisciplinary Conference on Music, Mahatma Jyotiba Phule Mahavidyalaya, Amravati. 10/3/2015
- 97 Chairman, National Conference on “Reforms and Innovations in Home-Science Curriculum,
- 98 Department of Home Science, Sant Gadge Baba Amravati University, Amravati, 9/4/2015
- 99 Chairman, One Day National Level Music Conference on “Microphone Techniques for Singers” on 1st August, 2015 Mahila Mahavidyalaya, Amravati,1/8/2015.
- 100 Chairperson of Valedictory functions, National Conference on “Reform and Innovations in Home Science Curriculum”, Department of Home Science, Sant Gadge Baba Amravati University, Amravati, 17/8/2015.
- 101 Inaugurator, National Mathematics Conference, Mungsaji Maharaj Mahavidyalaya, Darwha, 12/9/2015.
- 102 Chief Guest of Valedictory function, National Conference on “Emerging Research Trends in Engineering & Technology (NCERT-2015)” , Dr. Smt. Kamaltai Gawai Institute of Engineering & Technology, Darapur, Distt. Amravati, 3/11/2015.
- 103 National workshop scientific research paper writing, National Academic of Science, at Department of Chemistry, S.G.B. Amravati University, Amravati 5/03/2016.
- 104 National Conference on Recent Trends in Conservation of Biodiversity (NCRTCB-2016) Organized by Department of Life Sciences, S.S.S.K.R. Innani Mahavidyalaya, Karanja (Lad) in Collaboration with Vidyabharati Mahavidyalaya, Amravati, 12th March 2016.

Technical Sessions Chaired:

- i) Technical session: Section I, Biotechnological Issues in Medicinal Plants, 05.01.2007 at Emerging Trends in Medicinal Plants and Their Biotechnological Advances, Department of Botany, Dr. Ambedkar College, Nagpur, 5th – 6th Jan.2007.
- ii) Technical session I :IV-B (E 16 –E 21), 16.01.2007 at 14th National Conference on Aerobiology, School of Studies in Biotechnology, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh, 15th –17th Jan.2007. desire
- iii) Chaired the technical session at State level seminar on “Emerging Trends in Biotechnology” organized by Shri Shivaji College of Biotechnology, Amravati to 24th Jan. 2008.
- iv) Technical Session Reportear at National Conference on Recent Trends in Biosciences organized by Department of Botany, Zoology and Environmental Science ,Institute of Science, Nagpur during 20th to 21st January 2009.
- v) Technical Session Chairman at National Conference on “Trends in Plant Sciences: Today and Tomorrow” organized by Department of Botany Shri. Shivaji College, Akot, Dist. Akola 444101. Maharashtra (India) during 22nd – 23rd February, 2010 during 22nd – 23rd February, 2010
- vi) Jury Member for Poster and Oral Competition at “Golden Jubilee National Symposium on Plant Diversity Utilization and Management” Organized by Dlepartment of Botany, University of Kerala, during 27th to 29th May 2010.
- vii) Technical Session VI dated, 24th Oct. 2010 was Chaired at “First Global Congress on Plant Reproductive Biology”, organized by The Society of Plant Reproductive Biologist, Agra.
- viii) Technical Session 2C dated, 20th Nov. 2010 was Chaired at “16th National Conference on Aerobiology and National Symposium on Applications of Biotechnology in Environment Management and Medicine”, organized by Department of Biotechnology and Environmental study center of Bapuji Institute of Engineering and Technology, SS Institute of Medical Sciences and Research Center and JJM Medical College Davangere, Karnataka.
- ix) Chairman technical session at International Conference on Conservation and Management of Pollinators, September 14th-17th, 2011, Kuching, Sarawak, Malaysia.

VIII. Guest Lectures/Plenary Talks:

- i) **Guest Lectures delivered** at Refresher Courses/Departments, More than: 30
- ii) **Guest Lecture delivered** at Valencia University, Spain: 01
- iii) **Plenary talk** on Floral rewards and Pollinator diversity from Vidarbha region of Maharashtra (India) at International conference on Conservation and Management of pollinators, September 14th -17th, 2011, Kuching, Sarawak, Malaysia.

IX. Honors / Recognitions/ Awards:

- Honored as a Regular Library Reader, Vidya Bharti Mahavidhyalaya, Amravati.
- Certificate of Merit for Academic proficiency by Vidyabharti Shaikshanic Mandal, Amravati.
- Letter of Recognition from University of Haifa, Israel.
- Certificate of Appreciation from Ministry of Tourism, Israel.

- Letter of Appreciation for successful organization of International Conference ICPSBC-05 as a Convener from Hon'ble Management Council Sant Gadge Baba Amravati University, Amravati.
- Letter of Appreciation for successful conduction of 'Ashwamedh-2003'.
- **P.H. Gregory Award (Third) 2009** for research paper entitled "Prediction of allergic and antigenic characters of major pollen allergen pha a 1 from *Phalaris aquatica* (Canary grass) presented at 15th National Conference on Aerobiology and National Symposium on Plant, animal and Human Health jointly organized by Indian Aerobiological Society and Department of Life Sciences, Manipur University, Imphal. 6th to 8th March, 2009.
- Felicitation at the hands of Prof. M. Muniyamma and Prof. C. M. Gohil in appreciation of research contribution at "XXXII All India Botanical Conference and International Symposium on Diversity of plants and Microbes: Present Scenario", organized by Department of P. G. Studies and Research in Applied Botany Kuvempu University Shankaraghatta, Shimoga Dist. (Karnataka) and Indian Botanical Society Jaipur (Rajasthan), during 28th to 30th Dec. 2009.
- **Second prize** for research paper presentation at National Congress: Innervate 2012, organized by Jankidevi Bajaj College of Science, Wardha during 27th to 28th January 2012.
- Felicited by citation **Birbal Sahni Award** for the year 2012 by Birbal Sahani Institute of paleobotany, Lucknow in International Symposium and XXII Annual Conference of Indian Association for Angiosperm Taxonomy on Innovative prospects in Angiosperm Taxonomy (ISIPAT-2012) organized by Department of Botany. Sant Gadge Baba Amravati University, Amravati-444602 (M.S.), 28th -30th October 2012.
- **First prize** in Central zone AIU student research convention 2012-13 for the project entitled " Pollen as an Antisolar agent : A new tread to Palynopharmacology" by Ugale C.V. and **Tidke J.A.** organized by Association of Indian universities and hosted by KIIT, Bhubaneswar during 10-12 February 2013.
- **Patent entitled "Reliable process for pollen classification from pollen images using computational intelligence"** from Controller general of patents, Designs and Trademark, Department of industrial policy and promotion, Ministry of commerce and industry, India on 22/05/2015.

X. Membership of Learned Societies/Associations:

Life Member:

- Indian Botanical Society, Meerat.
- Indian Science Congress Association, Kolkata.
- Indian Aerobiological Society, Kolkata.
- Indian Association for Angiosperm Taxonomy (IAAT) Calicut.
- The Society of Plant Reproductive Biologists, Agra.
- All India Beekeeper's Association, H.O.B 25, Sadashiv Peth, Pune 411 003.
- Botanical Society, Department of Botany Dr.H.S.Gour University, Sagar 470003 (M.P.).
- Member of International Association of Pollination Ecologists and Palynologists.

- Alumni Association Amravati University, Amravati.
- Nagpur University Teachers Association, Nagpur
- New Gramin Vikas Shikshan Sanstha Pardi (Devi), Dist. Amravati Regi. No.9036.
- Shri Sant Pundlic Maharaj Sewa Mandal Sangvi (Durgwada), Regi.No.754 F 841.
- Indian Farmers Agrobiotech Association, Amravati
- International commission for plant pollinator relationship, Canada.

Executive Member:

- Indian Aerobiological Society, Kolkata, (Ex- Executive member).
- Gramin Vikas Shikshan Sanstha Pardi (Devi), Dist.Amravati Regi. No.9036.
- Secretary, Indian Farmers Agrobiotech Association, Amravati.

International/National Journal Editorial Board Memberships:

- Editor in Chief (Ex.) : Journal of Botanical Research (Bioinfo Publi.)
- Member : International Journal of Bioinformatics
- Member (Ex.) : International Journal of Biotechnology Research
- Ex- Councilor : International Journal of Plant Reproductive Biology
- Member : The Botanique

XI. Journals Subscribed in the Capacity of Life Memberships:

- Journal of The Indian Botanical Society.
- Journal of Phytological Research.
- Journal of Indian Aerobiological
- Journal of Angiosperm Taxonomy
- The International Journal of Plant Reproductive Biologist
- Indian Bee Journal
- Journal of Botanical Society (Sagar)
- Everyman's Science

XII. Memberships on Statutory Committees/ Committees:

2002-2003:

- **Hon'ble Vice-Chancellor's nominee** on Selection Committee for Senior College Teachers.
- **Hon'ble Vice-Chancellor's nominee** on Placement Committee for Senior College Teachers.
- **Subject Expert** on Selection Committee for Senior College Teachers.
- **Chairman**, NAAC Document Exhibition Committee, Amravati University, Amravati.
- **Escort** for Expert committee of UGC, Amravati University, Amravati.
- **Member**, Exhibition Committee, Ashwamegh-2003, VII Maharashtra State inters University Sports Meet.

2003-2004:

- **Hon'ble Vice-Chancellor's nominee** on Selection Committee for Senior College Teachers.
- **Hon'ble Vice-Chancellor's nominee** on Placement Committee for Senior College Teachers.

- **Subject Expert** on Selection Committee for Senior College Teachers.
- **Convener**, Workshop on New UGC Curriculum, Department of Botany.

2004-2005:

- **Subject Expert** on Redressal Committee, Amravati University, Amravati.
- **Convener**, International Conference on Modern Trends in Plant Sciences with Special Reference to the Role of Biodiversity in Conservation.
- **Coordinator**, Internal Quality Assurance Cell, Amravati University, Amravati.
- **Member** Accommodation and Catering Committee, International Conference on Relativity, 2005.

2005-2006

- **Member**, Academic Service Unit, Sant Gadge Baba Amravati University, Amravati.
- **Member**, Board of University Teaching and Research Committee, Sant Gadge Baba Amravati University, Amravati.
- **Member**, Research Recognition Committee, Sant Gadge Baba Amravati University, Amravati.
- **Member**, Board of Studies in Subject Botany, Sant Gadge Baba Amravati University, Amravati.
- **Member**, QAC, Sant Gadge Baba Amravati University, Amravati
- **Coordinator**, IQAC, Sant Gadge Baba Amravati University, Amravati.
- **Coordinator**, NSD-06, Sant Gadge Baba Amravati University, Amravati.

2006-2007

- **Chairman**, Subject Examination Committee in Subject Botany, Sant Gadge Baba Amravati University, Amravati.
- **Chairman**, Subject Examination Committee in Subject Environmental Science, Sant Gadge Baba Amravati University, Amravati.
- **Member**, Academic Service Unit, Sant Gadge Baba Amravati University, Amravati.
- **Member**, Board of University Teaching and Research Committee, Sant Gadge Baba Amravati University, Amravati.
- **Member**, Research and Recognition Committee, Sant Gadge Baba Amravati University, Amravati.
- **Member**, Board of Studies in Botany, Sant Gadge Baba Amravati University, Amravati.
- **Member**, Selection committee for college teachers as subject expert / V.C. Nominee, Sant Gadge Baba Amravati University, Amravati.
- **Member**, Committee for placement of college teachers, Sant Gadge Baba Amravati University, Amravati.
- **Member**, Committee for recognition of research laboratory, Sant Gadge Baba Amravati University, Amravati.
- **Member**, Redressal committee, Sant Gadge Baba Amravati University, Amravati.
- **Member**, Advisory Committee for National Conference on Emerging trends in Medicinal Plants and their Biotechnological Advances organized by Dr. Babasaheb Ambedkar College, Nagpur.
- **Co-ordinator**, Avishkar 2006, Research Festival. Sant Gadge Baba Amravati University, Amravati.

- **Convener**, Science and Tech. Exhibition, NSD- 07, Sant Gadge Baba Amravati University, Amravati.

2007-2008

- **Chairman**, Subject Examination Committee in Subject Botany, Sant Gadge Baba Amravati University, Amravati.
- **Chairman**, Subject Examination Committee in Subject Environmental Science, Sant Gadge Baba Amravati University, Amravati.
- **Member**, Academic Service Unit, Sant Gadge Baba Amravati University, Amravati.
- **Member**, Board of University Teaching and Research Committee, Sant Gadge Baba Amravati University, Amravati.
- **Member**, Research and Recognition Committee, Sant Gadge Baba Amravati University, Amravati.
- **Member**, Board of Studies in Botany, Sant Gadge Baba Amravati University, Amravati.
- **Member**, Faculty of Science, Sant Gadge Baba Amravati University, Amravati.

2008-2009

- **Member** - Faculty of Science.
- **Member** - Board of Studies in Botany.
- **Member** - Board of University Teaching and Research.
- **Member** - Research and Recognition Committee.
- **Member** - Academic Service Unit.
- **Chairman** - Subject Examination Committee in Subject Botany.
- **Chairman** - Subject Examination Committee in Subject Environmental Science.
- **Subject Coordinator** M.Phil. (Botany).
- **Member** - Local Project Advisory Committee DST project.
- **Member** - Science and Technology exhibition, NSD-08.
- **Member** - XIth Plan Presentation Committee.
- **Member** - Life Sciences Committee.
- **Member** -Secretary, University Academic Audit.

2009-2010

- **Chairman** - Science and Technology exhibition, NSD-10.
- **Chairman** - Subject Examination Committee for M.Phil. (Botany).
- **Chairman** - NAAC subcommittee for Criteria VII Innovative Practices.
- **Chairman** - Committee for Garden Monitoring.
- **Convener** - Project related to S&T, NSD 2010.
- **Secretary**- University Academic Audit.
- **Co-coordinator** - IQAC from 10.12.2009.
- **Vice-Chancellors Nominee** for Placement of Senior College teachers.
- **Vice-Chancellors Nominee** for Selection of Project Fellow for UGC MRP.
- **Member** - Academic Service Unit.
- **Member** - Local Project Advisory Committee, DST project.
- **Member** - NAAC documentation committee.
- **Member** - Student Council Election.
- **Chairman** - Science and Technology exhibition, NSD-10.
- **Chairman** - Subject Examination Committee for M.Phil. (Botany).
- **Chairman** - NAAC subcommittee for Criteria VII Innovative Practices.
- **Chairman** - Committee for Garden Monitoring.

- **Convener** - Project related to S&T, NSD 2010. Section 30.09.2009.
- **Member** - Subject Examination Committee, Biodiversity (PG).
- **Member** - Subject Examination Committee, Botany (PG).
- **Professor in Charge** – Botanical Society 2009 – 10.
- **Member** - Board of Studies in Subject Botany, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (From 2011 onwards for five years).

2010-2011

- **Member** – Internal Quality Assurance Cell.
- **Member** – Scrutiny Committee for nomination of one expert jointly from Management and Academic Council on the Committee for the Appointment of Vice-Chancellor.
- **Member** - Student Council Election Committee.
- **Member** - Board of Studies in subject Botany.
- **Member** - BUTR
- **Member** - RRC
- **Member** – Subject Examination Committee, Botany (PG).
- **Member** – Subject Examination Committee, Biodiversity (PG).
- **Member** – Committee for Eradication of *Parthenium* (Congress grass).
- **Member** – PAT Examination Committee.
- **UGC Nominee** - Pandit Jawaharlal Nehru Study Centre, Shri Shivaji Arts, Com. and Science College, Akola.
- **Observer** – SET 2010.
- **Coordinator** – Poster/Model Exhibition, Avishkar-2011.
- **Coordinator** – Seminar Evaluation Program, Avishkar-2011.
- **Member** – Oral Presentation Committee, Inter-collegiate Research Festival Avishkar 2010.
- **Convener** - Project related to S&T, NSD 2011.
- **Member** – Monitoring Committee, Sant Gadge Baba Amravati University Silver Jubilee Festival.

2011-2012

- **Member:** Senate, SGB Amravati University.
- **Member:** Management Council, SGB Amravati University.
- **Member:** Academic Council, SGB Amravati University.
- **Member & Secretary:** Board of College and University Development.
- **Member & Secretary:** Board of University Teaching and Research, SGB Amravati University.
- **Member:** Building and Works Committee, SGB Amravati University.
- **Member:** Finance and Accounts Committee, SGB Amravati University.
- **Member:** Senate/Academic Board, Government College of Engineering, Amravati.
- **University nominee:** on Governing Body of Mauli Group of Institutions, College of Engineering and Technology, Shegaon, Dist Buldhana.
- **Member:** Board of Studies in Botany, Dr. B. A. M. University, Aurangabad.
- **Member:** Doctoral Research Committee, R.T.M. Nagpur University.
- **Member:** Doctoral Research Committee, Pt. Ravishankar Shukla University, Raipur.
- **Member:** Board of Studies in Molecular Biology and Genetic Engineering (ad-hoc), RTM Nagpur University, Nagpur.

- **Convener:** Nominated by His Excellency's office on State Level Cultural Activity "Indradhanusha 2011", Financial Management Committee.
- **Chairman:** Committee for extension of senior college teacher superannuation age from 60 to 62.
- **Member:** Internal Quality Assessment Cell (IQAC), SGB Amravati University.
- **Member:** On more than 25 different committees and subcommittees at University level.

2012-2013 (Director-Pro-VC)

- **Chairman:** Research and Recognition Committee for about 50 subjects in 9 faculties.
- **Chairman:** Grievance Committee, SGB Amravati University, Amravati
- **Member:** Senate, SGB Amravati University.
- **Member:** Management Council, SGB Amravati University.
- **Member:** Academic Council, SGB Amravati University.
- **Member:** Board of College and University Development.
- **Member:** Board of University Teaching and Research, SGB Amravati University.
- **Member:** Building and Works Committee, SGB Amravati University.
- **Member:** Finance and Accounts Committee, SGB Amravati University.
- **Member:** Senate/Academic Board, Government College of Engineering, Amravati.
- **University nominee:** on Governing Body of Mauli Group of Institutions, College of Engineering and Technology, Shegaon, Dist Buldhana.
- **Member:** Board of Studies in Botany, Dr. B. A. M. University, Aurangabad.
- **Member:** Doctoral Research Committee, R.T.M. Nagpur University.
- **Member:** Doctoral Research Committee, Pt. Ravishankar Shukla University, Raipur.
- **Member:** Board of Studies in Molecular Biology and Genetic Engineering (ad-hoc), RTM Nagpur University, Nagpur.
- **Chairman:** Committee for extension of senior college teacher superannuation age from 60 to 62.
- **Member:** Internal Quality Assessment Cell (IQAC), SGB Amravati University.
- **Member:** State level Committee for Academic audit.
- **Member:** On more than 25 different committees and subcommittees at University level.

2013-2014 (Pro-VC- VC)

- **Chairman:** 30th convocation of SGB Amravati University, Amravati.
- **Ex-Officio Chairman of :** Management Council, Senate, Academic Council, Board of College and University Development, Board of University Teaching and Research, Building and Works committee, Finance and Accounts Committee, Purchase Committee, Board of Examination Committee, etc.
- **Chairman:** Research and Recognition Committee for about 50 subjects in 9 faculties.
- **Chairman:** Grievance Committee, SGB Amravati University, Amravati
- **Co-Chairman:** Core Committee for Indradhanushya 2014.
- **Member:** Senate/Academic Board, Government College of Engineering, Amravati.
- **University nominee:** on Governing Body of Mauli Group of Institutions, College of Engineering and Technology, Shegaon, Dist. Buldhana.
- **Member:** Board of Studies in Botany, Dr. B. A. M. University, Aurangabad.
- **Member:** Doctoral Research Committee, R.T.M. Nagpur University.
- **Member:** Doctoral Research Committee, Pt. Ravishankar Shukla University, Raipur.

- **Member:** Board of Studies in Molecular Biology and Genetic Engineering (ad-hoc), RTM Nagpur University, Nagpur.
- **Chairman:** Committee for extension of senior college teacher superannuation age from 60 to 62.
- **Member:** Internal Quality Assessment Cell (IQAC), SGB Amravati University.
- **Member:** State level Committee for Academic audit.
- **Member:** Advisory Committee “Yuva Jagar Abhiyan”, Maharashtra Information Technology Support Center, Pune.
- **Member:** On more than 25 different committees and subcommittees at University level.

2014-2015

- **Chairman:** Research and Recognition Committee for about 50 subjects in 9 faculties.
- **Chairman:** Grievance Committee, SGB Amravati University, Amravati
- **Member:** Senate, SGB Amravati University.
- **Member:** Management Council, SGB Amravati University.
- **Member:** Academic Council, SGB Amravati University.
- **Member:** Board of College and University Development.
- **Member:** Board of University Teaching and Research, SGB Amravati University.
- **Member:** Building and Works Committee, SGB Amravati University.
- **Member:** Finance and Accounts Committee, SGB Amravati University.
- **Member:** Senate/Academic Board, Government College of Engineering, Amravati.
- **University nominee:** on Governing Body of Mauli Group of Institutions, College of Engineering and Technology, Shegaon, Dist Buldhana.
- **Member:** Board of Studies in Botany, Dr. B. A. M. University, Aurangabad.
- **Member:** Doctoral Research Committee, R.T.M. Nagpur University.
- **Member:** Doctoral Research Committee, Pt. Ravishankar Shukla University, Raipur.
- **Member:** Board of Studies in Molecular Biology and Genetic Engineering (ad-hoc), RTM Nagpur University, Nagpur.
- **Member:** Internal Quality Assessment Cell (IQAC), SGB Amravati University.
- **Member:** State level Committee for Academic audit.
- **Member:** On several different committees and subcommittees at University level.

2015-2016

- **Chairman:** Research and Recognition Committee for about 50 subjects in 9 faculties.
- **Chairman:** Grievance Committee, SGB Amravati University, Amravati
- **Member:** Senate, SGB Amravati University.
- **Member:** Management Council, SGB Amravati University.
- **Member:** Academic Council, SGB Amravati University.
- **Member:** Board of College and University Development.
- **Member:** Board of University Teaching and Research, SGB Amravati University.
- **Member:** Building and Works Committee, SGB Amravati University.
- **Member:** Finance and Accounts Committee, SGB Amravati University.
- **Member:** Senate/Academic Board, Government College of Engineering, Amravati.
- **University nominee:** on Governing Body of Mauli Group of Institutions, College of Engineering and Technology, Shegaon, Dist Buldhana.
- **Member:** Board of Studies in Botany, Dr. B. A. M. University, Aurangabad.

- **Member:** Doctoral Research Committee, R.T.M. Nagpur University.
- **Member:** Doctoral Research Committee, Pt. Ravishankar Shukla University, Raipur.
- **Member:** Board of Studies in Molecular Biology and Genetic Engineering (ad-hoc), RTM Nagpur University, Nagpur.
- **Member:** Internal Quality Assessment Cell (IQAC), SGB Amravati University.
- **Member:** State level Committee for Academic audit.
- **Member:** On several different committees and subcommittees at University level.

XIII. Co-Curricular/Extra Curricular Activity :

- **Superintendent**, SET Examination. Department of Botany, Sant Gadge Baba Amravati University, Amravati (2003).
- **Incharge Teacher**, Botanical Society, Department of Botany, Sant Gadge Baba Amravati University, Amravati (2003).
- **Valuation Officer (PG)**, Central Valuation Center, Amravati University, Amravati (2004).
- **Chief Guest**, Inauguration of Science Forum 2004-2005, Jagdamba Mahavidyalaya, Achalpur.
- **Chief Guest**, Inauguration of Botanical Society, M.F. Arts, Com. and S.C.Science College, Warud (2005).
- **Chief Guest**, Inauguration of Nature Club Department of Botany, Bar RDIK and NKD College Bandera on 3/10/06.
- **Chief Guest**, “Shramadan Activity” at P.G.T.D. of Education, S.G.B. Amravati University, Amravati on 4/09/06.
- **Incharge**, Botanical Excursion 2006-07, Department of Botany, Sant Gadge Baba Amravati University, Amravati.
- **Chief Guest**, Inauguration of Botanical Society, Department of Botany, Amolakchand Mahavidhyalaya, Yavatmal on 3/01/07.
- Organized workshop on Environmental Awareness under citizen’s forum activity at village Sangvi, Durgwada (2007).
- Organized Exhibition on Medicinal Plants at village Sangvi, Durgwada, (2007).
- Conducted Extension Activity cultivation of potato for tribal peoples of Melghat at Kolapur Ta. Dharni Dist. Amravati (2007).
- Organized Exhibition on Medicinal Plants at village Pardi (Devi) Dist.-Amravati. (2007).

XIV. Computer Training:

- Certificate Course in Information Technology; conducted by Maharashtra State Board of Vocational Examinations, Mumbai, held in July 2002.
- MS-CIT (2010).