



Dr. Aparna Amit Saraf

Associate Professor,
Department of Botany,
The Institute of Science,
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Fort, Mumbai, India 400 032
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Educational Qualification:

- **Ph.D.** [Plant Physiology and Biochemistry] (1999),
The Institute of Science, Mumbai,
University of Mumbai, India.

Work Experience:

- Selected as **Associate Professor** (Botany) by
Maharashtra Public Service Commission (MPSC),
ranked first in the State.
- Faculty at Post Graduation level at The Institute of
Science, Mumbai from 1996 onwards.

B. Area of Research

- Plant Physiology and Biochemistry are my thrust areas of Research.
- I am mainly engaged in chemical characterization and developing chemical profiles using modern analytical techniques with a view to develop fingerprints for important Ayurvedic medicinal plants.
- Another thrust area of research is Isolation and characterization of specific marker compounds from medicinal plants so as to establish their identity and also for quality control.
- Screening of potential medicinal plants for anti-microbial activity is another mandate which is being carried out.

C. Publications:

2017-18

Saraf, A., & Shinde, P., "Phytochemical analysis and chemical fingerprinting of *Derris heyneana* (Wight and Arn.) Benth." Journal of Pharmacognosy and Phytochemistry, 7 (3), 740-747

Amit Saraf, **Aparna Saraf** and Alka Chaturvedi, "Phytochemical Analysis and Chemical Fingerprinting of Seeds of *Abrus precatorius* L.," Chem Sci Trans.,2018,7(1), pp 63-70
DOI:10.7598/cst2018.1460

2016-17

Saraf, A., & Shinde, P. ,"Development and Validation of HPTLC Method for Quantification of Biomarker β -Sitosterol in *Derris heyneana* (Wight and Arn) Benth," Chem Sci Trans.,2017,6(1), pp 42-49 DOI:10.7598/cst2017.1307

Saraf, A., & Shinde, P. (2016). HPTLC fingerprint profile, isolation and validation of marker compound lupeol in *Derris heyneana* (Wight and Arn) Benth, ". Int J Pharm Bio Sci, 7, 714-721.

Saraf, A., & Shinde, P. (2016). Elemental analysis of different plant parts of *Derris heyneana* (wight and arn) benth collected from Western Ghats of Maharashtra. World Journal of Pharmacy and Pharmaceutical Sciences, 5(3), 1452-1461.

2015-16

Saraf Aparna, Samant Aruna; High-Performance Thin Layer Chromatography Method for Identification and Quantification of Oleanolic Acid in the Roots of *Achyranthes aspera* Linn.; International Journal of Green Pharmacy; Vol. 9, Issue 4 (Suppl); 2015; S70-74

Saraf Aparna , Shweta Sankhla; HPTLC Fingerprint Profile of Extracts from Leaf, Bark and Flower of *Tecomella undulata* (Seem) in Different Solvents; International Journal of Pharmacognosy and Phytochemical research; Vol. 7, Issue 6; 2015; 1208-1216

Saraf Aparna, Samant Aruna; Development and Validation of HPTLC Method for Quantification of Biomarker β -Sitosterol in the Leaves of *Achyranthes aspera* Linn.; Chemical Science Transactions; Volume 4, Issue 4, 2015; 1121-1130

Saraf Aparna, Samant Aruna; HPTLC Method for Identification and Quantification of β - sitosterol in the Roots of *Achyranthes aspera* Linn. International Journal of Pharma Sciences Vol. 5, No. 4 (2015): 1117-1122

Saraf Aparna, Samant Aruna; HPTLC Fingerprint Profile and Antimicrobial Activity of Leaves of *Achyranthes aspera* Linn.; World Journal of Pharmacy and Pharmaceutical Sciences; Volume 4, Issue 3, 2015, 879-899.

2014-15

Aparna Saraf, K. Srilatha Srinivas; HPTLC Fingerprints of Essential Oils in *Oroxylum indicum* (L.) Vent.; World Journal of Pharmacy and Pharmaceutical Sciences; Volume 4, Issue 1, 2015, 577-594.

Aparna Saraf, K. Srilatha Srinivas; Development of HPTLC Fingerprints of Flavanoids using Quercetin and Baicalein as markers in *Oroxylum indicum* (L.) Vent.; Journal of Biomedical and Pharmaceutical Research; Volume 3, Issue 6, 2014, 09-26

Aparna Saraf, K. Srilatha Srinivas; Chromatographic Fingerprint Analysis of Sterols in *Oroxylum indicum* (L.) Vent. by HPTLC Technique; World Journal of Pharmaceutical Research; Volume 3, Issue 9, 2014

Saraf Aparna, Samant Aruna; "HPTLC Fingerprint Profile of Steroidal Constituents of *Achyranthes aspera* Linn.;" Journal of Biomedical and Pharmaceutical Research, Volume 3, Issue 5, 2014, 60-66

Saraf Aparna, Samant Aruna; "Chromatographic Fingerprint Analysis of Flavonoids of *Achyranthes aspera* Linn. by HPTLC" Journal of Biomedical and Pharmaceutical Research, Volume 3, Issue 4, 2014, 13-24

Saraf Aparna , Shweta Sankhla; "Simultaneous determination of Rutin and Quercetin in different parts of *Tecomella undulata* (Seem): An Endangered Medicinal plant." International Journal of Pharmacognosy and Phytochemical Research (ISSN: 0975-4873) 2014; 6(3)

Saraf Aparna, Saraf Amit; "Phytochemical and Antimicrobial studies of Medicinal Plant *Piper longum* Linn." . International Journal of Pharmacognosy and Phytochemical Research (ISSN: 0975-4873) 2014; 6(2); 213-222

2013-14

Saraf Aparna, Samant Aruna; Pharmacognostic and Phytochemical Studies for the Establishment of Quality Parameters of Leaf of *Achyranthes aspera* Linn., International Journal of Pharmacognosy and Phytochemical Research (ISSN: 0975-4873) 2014; 6(1); 122-127

Aparna Saraf, Shweta Sankhala (2013), Evaluation of Elemental Profile of *Tecomella undulata* (Seem): An Endangered Medicinal Plant. Res. J. Pharm., Biol. Chem. Sci., Vol 4 (3), 2013 , 600-607

Aparna Saraf, K. Srilatha Srinivas, Labhane N L (2013), "Pharmacognostic Studies and HPTLC fingerprint profile of stem of *Oroxylum indicum* (L.) Vent., -A Threatened & Vulnerable medicinal plant." Res. J. Pharm., Biol. Chem. Sci., Vol 4 (3) , 2013, 1078-1084

Aparna Saraf, Aruna Samant (2013) Evaluation of some minerals and trace elements in *Achyranthes aspera* Linn., International Journal of Pharmaceutical Sciences, Vol. 3, No. 3 (2013): 229-233.

2012-13

Priya Alphanso, **Aparna Saraf** (2012), Chemical profile studies on the secondary metabolites of medicinally important plant *Zanthoxylum rhetsa* (Roxb.) DC using HPTLC, Asian Pacific Journal of Tropical Biomedicine, 2(3); 2012; S1293-S1298

Priya Alphanso, **Aparna Saraf** (2012), Profile of Mineral content in *Zanthoxylum rhetsa* Roxb (DC): Proceedings of UGC sponsored "National Conference on Innovative Research Trends in Biological Sciences", Akola, September 8-9, 2012. ISBN: 978-81-923621-0-6, 571-74.

2011-12

K. Srilatha Srinivas, **Aparna Saraf** (2011), Profile of Elemental Composition of *Oroxylum indicum* L. (Vent) Collected from Different Geographical Regions of India. Phcog J. August 2011, Vol. 3, Issue 24, 49-53.

Aparna Saraf, K. Srilatha Srinivas (2011), High Performance Thin Layer Chromatographic determination of Chrysin in *Oroxylum indicum* Vent. from different geographical regions of India, E Journal of Chemistry, 2011, Vol. 8.

Aparna Saraf (2011), High performance Thin Layer Chromatography Analysis of Steroidal Saponin, diosgenin from *Costus speciosus* Koen. Bionano Frontier Vol. 4(2), 2, pp 302-304.

2010-11

Aparna Saraf, Dipali Totkekar (2011) Evaluation of *Garcinia indica* Choisy. Seeds as an Anti Solar agent ; Inventi Rapid: Ethnopharmacology ; Vol. 2, Issue 1

Aparna Saraf (2010) Phytochemical and Antimicrobial Studies of *Costus speciosus* Koen.- a medicinal Plant. E- Journal of Chemistry Vol.7(S1), S405-S403

Aparna Saraf, Dipali Totkekar (2010), "Anti-Solar Activity of Flowers of *Butea Monosperma* (Lam.)"; Inventi Rapid: Ethnopharmacology Vol. 1, Issue 1

Aparna Saraf, Dipali Totkekar, Amit Saraf (2010), "An In-Vitro Evaluation of Flowers of *Tagetes Spp.* (L) as A Natural Anti-Solar Agent"; Nature and Science, Marsland Press, USA. (2010), Vol 8(10): pp 274-276.

2009-10

Aparna Saraf, (2009): Changes in fruit quality during ripening of *Achras sapota* (Linn.) . Bionano Frontiers, Science Day special issue, pp. 99-102.

Aparna Saraf, Amit Saraf (2009): Phytochemical Studies and evaluation of antibacterial activity of *Zanthoxylum budrunga* DC Wall. Bionano Frontiers. 2009, Vol. II, (2), pp 21-23

Aparna Saraf (2009) Prabuddha Gupta, (2009): Antibacterial and phytochemical study on *Glycyrrhiza glabra* (Linn.). Bionano Frontiers, 2009, Vol. II(2), I pp. 44-49.

D. Invited/ Conference talks

- 1) **Invited as a Speaker** at “International Conference and Exhibition on Traditional & Alternative Medicine” held on December 9-11, 2013 in Radisson Blu Plaza Hotel, Hyderabad, India.

E. Paper presentations

International Conferences

2017-18

Pooja Shinde and **Aparna Saraf**; Pharmacognostic, physicochemical and chromatographic characterization of *Derris heyneana* (Wight and Arn) Benth, 22nd National Convention of Society of Pharmacognosy & International Conference on “Integrating Ayurveda & Herbal Drugs for Next Generation Therapeutics & Supplements: Opportunities and Challenges”, Mehsana, Gujarat, India. 20-21st January 2018

Amit Saraf, **Aparna Saraf** & Alka Chaturvedi; Phytochemical Analysis and Chemical Fingerprinting of *Embelia ribes* Burm. f., 22nd National Convention of Society of Pharmacognosy & International Conference on “Integrating Ayurveda & Herbal Drugs for Next Generation Therapeutics & Supplements: Opportunities and Challenges”, Mehsana, Gujarat, India. 20-21st January 2018

2016-17

Pooja Shinde and **Aparna Saraf**; Chemical and Molecular Fingerprint Analysis of *Derris heyneana* (Wight and Arn) Benth. by HPTLC & FTIR techniques; 4th International Congress of Society for Ethnopharmacology, India organized by Uka Tarsadia University, Bardoli, Surat, Gujrat, India on 23-25th February, 2017

Amit Saraf, **Aparna Saraf** & Alka Chaturvedi; HPTLC Fingerprint profile of the steroidal fraction in few medicinal plants with anti fertility activity; 4th International Congress of Society for Ethnopharmacology, India organized by Uka Tarsadia University, Bardoli, Surat, Gujrat, India on 23-25th February, 2017

2015-16

Aruna Samant and **Aparna Saraf** : HPTLC method for identification and quantification of oleanolic acid in the leaves of *Achyranthes aspera* Linn.; 1st International Conference: “Advances in Asian Medicines (ICAAM - 2016)” , Organized by Indian Association for the Study of Traditional Asian Medicine (IAASTAM) Pune , India & Society for Ethnopharmacology (India) , January 3-7, 2016.

Pooja Shinde and **Aparna Saraf** : “HPTLC Fingerprint Profile of Steroidal Constituents of *Derris heyneana* (Wight and Arn) Benth from Western Ghats of Maharashtra” 1st International Conference: “Advances in Asian Medicines (ICAAM - 2016)” , Organized by Indian Association for the Study of Traditional Asian Medicine (IAASTAM) Pune , India & Society for Ethnopharmacology (India) , January 3-7, 2016.

Shweta Sankhla and **Aparna Saraf** : “HPTLC Fingerprint profile and antimicrobial studies of leaf extracts of *Tecomella undulata* (Seem) : An Endangered species.” 1st International Conference: “Advances in Asian Medicines (ICAAM - 2016)” , Organized by Indian Association for the Study of Traditional Asian Medicine (IAASTAM) Pune , India & Society for Ethnopharmacology (India) , January 3-7, 2016

2014-15

Aruna Samant and **Aparna Saraf** : “In vitro Antimicrobial potential and HPTLC fingerprint of roots of *Achyranthes aspera* Linn.” DST & ICMR sponsored, 2nd International Congress of the Society for Ethnopharmacology (India) on “Validation of Medicinal Plants & Traditional Medicine — Global Perspective” 20-22nd February, 2015, Nagpur.

Aruna Samant and **Aparna Saraf** : “Pharmacognostic and Phytochemical Evaluation of Stem of *Achyranthes aspera* Linn.” DBT & DST sponsored International Conference on “Current status, Opportunities and Challenges in Medicinal and Natural Product Research” at Uka Tarsadia University, Bardoli Gujrat, 24th- 26th September 2014.

Aparna Saraf and Shweta Sankhla : “Quantitative Estimation of Stigmasterol in Leaf Extracts of *Tecomella undulata* Seem by HPLC”, DBT & DST sponsored International Conference on “Current status, Opportunities and Challenges in Medicinal and Natural Product Research” at Uka Tarsadia University, Bardoli Gujrat, 24th- 26th September 2014.

2013-14

Aparna Saraf and Amit Saraf : Chemical fingerprint profile and antibacterial studies on *Piper longum* Linn. ; “International Conference and Exhibition on Traditional & Alternative Medicine” held on December 9-11, 2013 in Radisson Blu Plaza Hotel, Hyderabad, India.

Amit Saraf, **Aparna Saraf** & Alka Chaturvedi : Phytochemical profile of the Essential oil in medicinally important plant *Embelia ribes* Burn. F using HPTLC and GC-MS ; “International Conference and Exhibition on Traditional & Alternative Medicine” held on December 9-11, 2013 in Radisson Blu Plaza Hotel, Hyderabad, India.

2012-13

K. Srilatha Srinivas and **Aparna Saraf** : Pharmacognostic and Phytochemical studies of stem of *Oroxylum indicum* (L) Vent. from North Eastern Himalayan region of India: 5th International Conference on Medicinal and Herbal Products, organized by Manipal College of Pharmaceutical Sciences, Manipal, Karnataka, 25th, 26th & 27th January, 2013.

Amit Saraf and **Aparna Saraf**: HPTLC Fingerprint profile of extract from leaves of *Abrus precatorius* Linn. 5th International Conference on Medicinal and Herbal Products, organized by Manipal College of Pharmaceutical Sciences, Manipal, Karnataka, 25th, 26th & 27th January, 2013.

Aparna Saraf and Alphonso Priya: HPTLC Fingerprint profile of extracts from fruit of *Zanthoxylum rhetsa* (Roxb.) DC in different Solvents: 5th International Conference on Medicinal and Herbal Products, organized by Manipal College of Pharmaceutical Sciences, Manipal, Karnataka, 25th, 26th & 27th January, 2013.

2011-12

K. Srilatha Srinivas and **Aparna Saraf** (2012) Chemical and Molecular Fingerprint profile of *Oroxylum indicum* L. Vent by HPTLC & FTIR techniques “16th National Convention of society of pharmacology and international symposium on herbal and traditional medicine on the theme (frontiers in drug discovery from herbal and traditional medicine)” organized by Department of Pharmaceutical Sciences, Suarashtra University, Rajkot, Gujarat, India, March 9-11th 2012

Alphonso Priya and **Aparna Saraf** : Chromatographic Finger print of Steroids in *Zanthoxylum rhetsa* Roxb (DC) by HPTLC techniques : “16th National Convention of society of pharmacology and international symposium on herbal and traditional medicine on the theme (frontiers in drug discovery from herbal and traditional medicine)” organized by Department of Pharmaceutical Sciences, Suarashtra University, Rajkot, Gujarat, India, March 9-11th 2012

2010-11

K. Srilatha Srinivas and **Aparna Saraf** (2011). “A Comparative Evaluation of High-Performance Thin-Layer Chromatographic Fingerprints of Flavonoids and Tannins for Standardization of *Oroxylum indicum* vent.”; ICMR and KLE University’s College of Pharmacy sponsored ‘International Convention and 15TH Annual conference of Society of Pharmacognosy, Belgaum’, February 18-20, 2011.

Priya Alphonso, Amit Saraf and **Aparna Saraf** (2011). “Chemical Fingerprint Profile of *Zanthoxylum rhetsa* (Roxb.) DC”. ICMR and KLE University’s College of Pharmacy sponsored ‘International Convention and 15TH Annual conference of Society of Pharmacognosy, Belgaum’, February 18-20, 2011.

Dipali Totkekar and **Aparna Saraf** (2011) “HPTLC Fingerprint Profile of *Eupatorium repandum* Willd. and *Elephantopus scaber* L.” ICMR and KLE University’s College of Pharmacy sponsored ‘International Convention and 15TH Annual conference of Society of Pharmacognosy, Belgaum’, February 18-20, 2011.

National Conferences

2017-18

K. Srilatha Srinivas and **Aparna Saraf**; Genetic diversity analysis of *Oroxylum indicum* (L) Vent , an endangered and important medicinal plant using Inter Simple Sequence Repeat (ISSR) markers, One Day National Conference on Advances in Biological Sciences, Rizvi College of Arts, Science and Commerce, Mumbai, 3rd February 2018

Shweta Sankhla and **Aparna Saraf**; Phytochemical and antimicrobial studies on *Tecomella undulata* (Seem), One Day National Conference on Advances in Biological Sciences, Rizvi College of Arts, Science and Commerce, Mumbai, 3rd February 2018

Pooja Shinde and **Aparna Saraf**; Phytochemical analysis and chemical fingerprinting of *Derris heyneana* (Wight and Arn) Benth., One Day National Conference on Advances in Biological Sciences, Rizvi College of Arts, Science and Commerce, Mumbai, 3rd February 2018

2016-17

Pooja Shinde and **Aparna Saraf**; Detection and characterization of bioactive phytosterol from *Derris heyneana* (Wight and Arn) Benth. National Seminar on Plant Biology-New Frontiers organized by Bhavans College, Andheri, Mumbai on 7th March 2017

Shweta Sankhla and **Aparna Saraf**; Phytochemical profile of secondary metabolites of medicinally important plant *Tecomella undulata* (Seem) using HPTLC; National Seminar on Plant Biology-New Frontiers organized by Bhavans College, Andheri, Mumbai on 7th March 2017

Amit Saraf, **Aparna Saraf** & Alka Chaturvedi; Development of HPTLC fingerprint profile of the sterol fraction in few medicinal plants with anti fertility activity; National Seminar on Plant Biology-New Frontiers organized by Bhavans College, Andheri, Mumbai on 7th March 2017

2013-14

K. Srilatha Srinivas and **Aparna Saraf**; Genetic diversity analysis of *Oroxylum indicum* (L) Vent , an endangered and important medicinal plant using Inter Simple Sequence Repeat (ISSR) markers; UGC sponsored National Symposium on 'Frontiers in the field of Science, Technology and Sustainability': Elphinstone College, Mumbai, 14-15 Feb, 2014.

Aruna Samant and **Aparna Saraf**; Pharmacognostic Study and Establishment of Quality Parameters of root of *Achyranthes aspera* Linn. UGC sponsored National Symposium on 'Frontiers in the field of Science, Technology and Sustainability': Elphinstone College, Mumbai, 14-15 Feb, 2014.

2012-13

K. Srilatha Srinivas and **Aparna Saraf** : Chemical Fingerprint Profile of Steroids in *Oroxylum indicum* L. Vent by HPTLC: UGC sponsored Second One Day National Symposium on "Modern Research Trends and Applications in Life Sciences" : Elphinstone College, Mumbai, 9th February 2013.

Archana Ashtekar and **Aparna Saraf**; Pharmacognostic Study and Establishment of Quality Parameters of *Costus speciosus* (Koen). National Conference on "Role of Biotechnology in Conservation and Sustainable use of Medicinal plants", The Institute of Science, Mumbai, 14th – 15th December, 2012.

K. Srilatha Srinivas and **Aparna Saraf**; Anatomical Study and Establishment of Quality Parameters of leaves of *Oroxylum indicum* (L) Vent. National Conference on "Role of Biotechnology in Conservation and Sustainable use of Medicinal plants", The Institute of Science, Mumbai, 14th – 15th December, 2012.

Aparna Saraf and Alphonso Priya : Profile of Mineral content in *Zanthoxylum rhetsa* Roxb (DC):UGC sponsored "National Conference on Innovative Research Trends in Biological Sciences' , organized by Shri Shivaji College, Akola, September 8-9, 2012.

2011-12

Alphonso Priya and **Saraf Aparna**; Chemical & Molecular fingerprint profile of Saponins in *Zanthoxylum rhetsa* Roxb (DC) by HPTLC and FTIR techniques; National seminar on technologies for improving productivity of Spices & Plantation ”organized by Central Agricultural Research Institute , Port Blair; 27 -28 February, 2012.

Alphonso Priya and **Saraf Aparna**; Cytotoxic effect of *Zanthoxylum rhetsa* Roxb (DC) plant extracts on *Daphnia magna* and *Glycer dibranchiate* ; National conference on biodiversity organized by Garware College, Pune; 9 - 11 February, 2012

K. Srilatha Srinivas and **Aparna Saraf** “Chromatographic Fingerprint Analysis of Essential Oils in *Oroxylum indicum* L (Vent.) collected from different geographical regions of India by HPTLC technique”.National Conference on “Evolution of Research and Development in Bio Sciences “5th and 6 th January, 2012, held at K.C. college, Mumbai.

Alphonso Priya and **Saraf Aparna**; Chemical profile studies of the Alkaloids of *Zanthoxylum rhetsa* Roxb(DC) UGC sponsored 2 days National Conference on “Evolution of Research & Development in Bioscience ”organized by Dept of Life Sciences, K.C. College, Mumbai on 5 -6th January, 2012.

2010-11

Priya Alphonso and **Aparna Saraf** (2010) “Preliminary studies towards utilization of various extracts of *Zanthoxylum rhetsa* Roxb (DC) as Anti-solar agent”; Medicinal & Aromatic Plants Association of India (MAPAI) sponsored ‘National Conference on Biodiversity of Medicinal and Aromatic Plants: Collection, Characterisation and Utilisation’, Anand, Gujrat, November 24-25, 2010

Dipali Totkekar and **Aparna Saraf** (2010) “Screening of Sun Protecting Activity of *Garcinia indica* Choisy. Seeds”; Medicinal & Aromatic Plants Association of India (MAPAI) sponsored ‘National Conference on Biodiversity of Medicinal and Aromatic Plants: Collection, Characterisation and Utilisation’, Anand, Gujrat, November 24-25, 2010

F. Projects (Completed)

Research Project sanctioned by UGC for 2009-2011, entitled “Screening of potential medicinal plants for anti-microbial activity: an approach in search of anti-infective compounds”

Received University Research Grant for 2003-2004 for the project “Investigations on the accumulation of Nitrates & Oxalates and its effect on minerals & vitamins in leafy vegetables grown on sewage water irrigation”.

Received University Research Grant for 2013-2014 for the project “Chemical Fingerprinting of *Tecomella undulata* (Seem) – An endangered Medicinal Plant.”

G. Research Guidance

PhD Awarded

- 1) **K. Srilatha Srinivas (2014-15)**
“Pharmacognostic, Phytochemical standardization and antifungal studies on *Oroxylum indicum* L. (Vent) – An endangered medicinal plant.”
- 2) **Aruna Samant (2015-16)**
“Chemical Fingerprinting and Anti microbial studies on *Achyranthus aspera* Linn. From Western Ghats of Maharashtra State.”
- 3) **Shweta Sankhla (2016-17)**
“Pharmacognostic, Phytochemical and antimicrobial studies on *Tecomella undulata* (Seem.) – An endangered medicinal plant of Rajasthan.”

PhD Submitted

- 1) **Pooja Shinde (2017-18)**

PhD enrolled

- 1) **Smita Narayan**
- 2) **Ashutosh Rathod**

H. Activities

- ✚ Expert on the Panel for drafting “Women’s Policy, 2010” for the Government of Maharashtra.
- ✚ Advisor on the panel of “Staff Selection Commission” Government of India.
- ✚ Organizing Secretary for One Day National Level Workshop on “Recent trends in Chromatographic Analysis of Phytochemicals” organized in collaboration with Anchrom Enterprises on 21st December, 2017
- ✚ Organized One-Day workshop on “Revised Syllabus of M.Sc. Part-II, Botany (Plant Physiology and Biochemistry),” on behalf of University of Mumbai at Department of Botany, The Institute of Science, Mumbai on 12th June 2017.

- ✚ Organizing Secretary for “Discover Science Lecture Series” at The Department of Botany, The Institute of Science, Mumbai.
- ✚ Completed "Workshop on Extraction and Isolation of Phytoconstituents from medicinal plants/ herbs” specially designed for Faculties and students of Pharmacy/Ayurveda/Herbal Profession/Botany/Chemistry, organised on Saturday 9th and Sunday 10th December, 2017 from 9.30 am to 5.30 pm at Institute of Chemical Technology (Formerly UDCT), Matunga.
- ✚ Referee for evaluation of PhD thesis at RTM University, Nagpur, Shivaji University, Kolhapur, D.Y. Patil University, Navi Mumbai.
- ✚ Member on the Panel of Saurashtra University for selection of Ph.D. Guides.
- ✚ Subject Expert for placement under CAS at DHE, Pune.
- ✚ Government nominee appointed by Joint Director, Higher Education, and Mumbai for appointment of Assistant professor and for Career Advancement Scheme (CAS).
- ✚ Chaired a session at National Seminar on Recent Trends in Science & Technology for Sustainable Developments (NSRTSTSD-2018), The Institute of Science, Mumbai.
- ✚ Chaired a session at One Day National Conference on Advances in Biological Sciences organized by Department of Botany, Rizvi College of Arts, Science and Commerce, Mumbai, 3rd February 2018.
- ✚ Organizing Secretary for One Day National Level Workshop on “HPTLC & Nano Particle Tracking Analysis Technique” in collaboration with ANCHROM, Mumbai on 5th October, 2016.
- ✚ Organizing Secretary for One Day interactive session/workshop on “Instrumentation Techniques in Scientific Research” for the students of K.C. College, Mumbai. on 24th October, 2016.
- ✚ Organized one day short excursion to Sanjay Gandhi National Park, Mumbai on 30th July, 2016 for M.Sc. Part I & II Botany students.
- ✚ Organizing Secretary for One Day National Level Workshop on “HPTLC and hyphenated HPTLC Technique HPTLC-MS” organized in collaboration with Anchrom Enterprises on 14th August, 2015

- ✚ Project evaluator for UGC Major Project at KC College, Mumbai. Subject Expert for the PhD interview at KC College, Mumbai
- ✚ Project Evaluator for Final Year B.Tech. & M.Tech. projects at D.Y. Patil University, Navi Mumbai
- ✚ Invited as a Speaker at “International Conference and Exhibition on Traditional & Alternative Medicine” held on December 9-11, 2013 in Radisson Blu Plaza Hotel, Hyderabad, India
- ✚ Invited to deliver a lecture at Dapoli Science College
- ✚ Reviewer for Journal of Pharmacy Research, Elsevier Publication, ISSN: 0974-6943
- ✚ On the Editorial board of “World Journal of Pharmaceutical Sciences”
- ✚ Successfully completed six weeks STP foundation training program for Associate Professors in Higher Education Department, organized by YASHADA, Pune from 16th July to 4th August 2013

I. Topics taught

- ✚ Plant Physiology & Biochemistry
 - ✚ Phytochemistry
 - ✚ Environmental Botany
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