

## BIODATA

1. Name : Dr. SUGANDHA SHRIKANT SHETYE

2. Name of the Institution where the candidate is working:

K J Somaiya College of Science and Commerce, Vidyavihar, Mumbai -400 077

3. Address to which communications are to be sent: Plot No. 19, Flat no. 121, Meghdoot, Shivrushthi, Kurla (east) ,Mumbai 400 024

4. Telephone number and e-mail id: mobile: 9819500324

email: sugandha@somaiya.edu

5. Sex: Female

Nationality & Religion: Indian, Hindu

6. Date of Birth and Age : 21-11-1966 , 51 years

7. Name of the Community: open

8. Academic qualifications:

Degree/certificate	year	Name of the Board/University	Institution	Subjects offered	Class	Marks/grade
S.S.C.	1982	Pune	New English School, Kurla(East) Mumbai-400024	general	distinction	81.71%
H.S.C.	1984	Pune	Ruia College	science	Second	58.83%
B.Sc.	1987	Mumbai	Ruia College	Chemistry/ drugs and dyes	First	73.11%
M.Sc.	1989	Mumbai	Ruia College	Physical Chemistry	First	63.67%
Ph.D.	1995	Mumbai	Ruia College	Title of the Ph.D. Thesis: Studies in Metal complexes		

### Value adding Skill Development learning Programs:

1. Leadership Course in Biodiversity Conservation - BNHS- 2001
2. Volunteer Training Program-Conservation Education Centre, BNHS -2005
3. Environmental Management in Industries, Quality Improvement Program, IIT Bombay-2008

4. Solar Energy –Entrepreneurship program in Solar Energy conducted by MSME, Govt of India June 2017
5. Basic Photography Course (10 week) by Dr Shrikant Malushte SNAP Academy –July 2017 - September 2017.
6. Online Course in Basic Spoken Sanskrit(3 Month ) conducted by NPTEL – August –October 2018

9 . Membership /Fellowship titles in Professional Societies/Academy :

- i. Vice President ,Indian Chemical Society-(Mumbai Chapter ) since 2015-2019
  - a. Life member since 1995
  - b. Elected as Joint secretary - 2012-14
- ii. Society for Material Chemistry, BARC- Life Member
- iii. Life Member, Indian National Science Congress- 2015
- iv. Life Member, Indian Association of Chemistry Teachers(IACT)
- v. Bombay Association for Science Education, TIFR, Mumbai- Life Member since 1994 and associated as Joint treasurer, Executive Council till 2013 -14.
- vi. Bombay natural History Society -Life Member
- vii. Youth Hostels Association of India – Life Member

**11. Prizes, Medals, Awards, other Honours received :**

**International conference :** Woman Achiever’s Award for outstanding contribution to Pharma and its allied sciences in the year 2018 at 4th World Summit on Pharmaceuticals and Drug Design ,September 21-22, 2018, Dubai, UAE

**12. Professional Experience :**

Institution	Post Held	Duration of service	Job description: UG&PG Teaching Research/extension
Ruia College	Full time Lecturer(leave vacancy and ad hoc)	September 1989-April 1991	UG teaching
Guru Nanak College of Arts science and commerce	Full time Lecturer	June1991-June 1995	UG teaching
K J Somaiya college of science and	Associate Professor	Since July 1995	UG/ and PG Teaching, Research

commerce			Extension activities
	Dean (Academic Affairs)	2015-2018	Academic administration
	Research Guide : MSc. By papers	Jan 1999	PG lectures in Chemistry and Environmental Science
	MSc. By research	Jan 2000	5 students
	Ph.D. Chemistry	Sept ember 2009	2 awarded 2 ongoing 1 to be registered
	Ph.D. Environmental Science	2017	Awaiting for lab recognition

## **Curriculum Development:**

### **M.Sc. Environmental Science:**

In the year 2010, Department of Environmental Sciences was established under her able leadership at K J Somaiya College of Science and Commerce and since then several environmental education and research activities, consultancy and training programs for teachers, corporates and students and citizens are conducted by the Department.

Member of BOS: - the curriculum was revised for University of Mumbai in 2013-14 ,  
Autonomous program – 2013-14 ,

### **2013-14 – New courses Introduced in M.Sc Env. Science Autonomous program -**

Climate Change –adaptation and Mitigation, Environmental Ethics, wildlife management, Research Methodology for Env. Science, Eco-restoration, CSR

Innovative evaluation techniques during practical exam -Problem based learning strategy

Internal evaluation – PowerPoint , role play , policy analysis , seminar and surveys , video documentation, Experiential learning practices etc.

### **2018-19 - Revised Autonomous program**

Complete revision of the M.Sc program – New courses developed - Climate Change science , Biodiversity Governance, Environmental Quality, Ecology and Environment, Environmental Ethics, Environmental communication, Environmental. Management tools

One semester – project work –research based ,internship (Full time for 3-4 months)

Evaluation: continuous evaluation using rubrics

### **One year PG Diploma in Solid Waste Management :2018-19**

Dr Shetye is instrumental in developing a new postgraduate Diploma in Solid Waste Management , first of its kind in India in Collaboration with NGO National Solid Waste Association of India(NSWAI) in the current year 2018-19.

### **Capacity Development Programs in Environment Management (CDEM) 2016-2018**

Member of the Core Group for developing Capacity Development Programs in Environment Management (CDEM) leading to certificate courses and PG Diploma in Environment Management in collaboration with Mumbai Metropolitan Regional Development Authority's Environment Improvement Society (MMREIS) for a period of five years (2016-2021)

1. Environmental Policy and regulations
2. Water Management at Local Level
3. Waste Management
4. Green Built Environment
5. Sustainable Cities

### **Interdisciplinary Refresher Courses in Environmental Studies**

She has successfully Co-ordinated two teacher training programs under the aegis of University Grants Commission-Human resource Development Center University of Mumbai in the subject of Environmental Studies:

1. Refresher Courses Environmental Consciousness and Sustainable Development- Oct 19-Nov.7, 2016
2. Refresher Course on Biodiversity Conservation and Sustainable Development – June 1-21, 2018

### **Consultant** for Water Pollution monitoring Projects:

1. Save Ulhas River Project — on-going since December 2012 till date -for NGO Vanashakti
2. Heavy Metal Analysis in the Coastal Waters at Mumbai, Completed 2007-09 for Maharashtra Pollution control Board.

### **Contribution to Curriculum Development in Chemistry and Environmental Chemistry for University of Mumbai and Ruia College (Autonomous Institution) :**

Involved actively as Chairperson, Board of studies in Chemistry and Environment Science to develop the curriculum under Autonomous status received by KJ Somaiya college of science and commerce, Mumbai 400 077 (2018-2020) .

Introduced a new course on sustainable development at PG program M.Sc. Env.Science

Board of Studies in Chemistry and Environmental Science at Ramnarian Ruia College of Arts and Science ,Mumbai 400 019. (2018-2020)

An active member of syllabus committee for curriculum designing chemistry, environmental chemistry and Environmental Science, Environmental Ethics for UG as well as PG programs for University of Mumbai since 2011

#### 14. Number of publications

Articles regional	6 articles on Ecologically significant plants published in 2017-18	Kutuhel , Loksatta Marathi daily newspaper
	1 Attitude towards Nature June 24, 2018 .	<a href="http://Higher education plus .com">http://Higher education plus .com</a> online article
Articles National	8	Research papers
Articles International	7	Research papers
Books(coauthor)	9 with multiple editions	Text book chapters for UG students in the subjects of Chemistry and Foundation Course.

Sr .no	Year	Authors	Title of the paper	Journal details
1	1999	S.S. Shetye,M.S. Mayadeo, N.B. Laxmeswar	Solution studies and biological activities of some bivalent metal complexes with Schiff bases derived from 3 –phenyl salicylaldehyde	Asian Journal of Chemistry, 11(4), 1379-1384, (1999)

2	1999	S.S. Shetye,M.S. Mayadeo, N.B. Laxmeswar	Physicochemical and biological studies of Schiff bases derived from 3 –phenyl salicylaldehyde	Research Journal of Chemistry and Environment,3(1),27-30,1999
3	1999	S.S. Shetye,M.S. Mayadeo, N.B. Laxmeswar	Determination of stability constants of rare earth complexes with Schiff bases derived from 3 –phenyl salicylaldehyde	Samyak Jj.of chemistry,2(3),7-12,1998
4	2004-05	Vidhya D.Bhosale, S.S.Shetye, Krishnakant C.Vichare	Effect of metal ions on the hydrolysis of the Schiff bases derived from 5-Chloro-4,6-Dimethyl-2-Hydroxy Benzaldehyde	Asian Journal of Chemistry, 16(1), 343, (2004)
5	2004-05	Vidhya D.Bhosale, S.S.Shetye, Krishnakant C.Vichare	Potentiometric Determination of Formation constants of Metal Ion complexes of 4,5,- Dimethyl Salicylaldehyde	Asian Journal of Chemistry, 16(1), 338, (2004)
6	2005-06	G.A.Temghare, S.S.Shetye, S.S. Joshi,S.M.Yetal, V.V.Vaidya	Rapid and Sensitive method for quantitative determination of Azathioprine and 6-Mercaptopurine in human plasma by Liquid chromatography-Tandem Mass spectrometry	Indian Drugs, 44(6),449, (2007)
7	2008-09	Dr.S.S.Shetye, Temghare G.A., Joshi S.S.	Rapid And Sensitive Method For Quantitative Determination Of Lopinavir And Ritonavir In Human Plasma By Liquid Chromatography-Tandem Mass Spectrometry	E-Journal of Chemistry, (2009) ,6(1) , 223-230
8	2013-14	Sugandha S. Shetye ,Valsamma Wilson, ,and Kawaljit Kaur	Estimation of Total Phenolics and Antioxidant Activity of an Ayurvedic Formulation Containing Aerial Root of F. benghalensis	Online International Interdisciplinary Research Journal, {Bi-Monthly}, ISSN2249-9598, Volume-IV, Issue-I, Jan-Feb 2014

9	2013-14	Abhaysinh Salunkhe, Indrani Gupta, Sugandha Shetye, and Rakeshkumar	“Measurement and chemical Speciation of PM10 in Mumbai City , India.	<u>Journal of Environmental Science and engg.</u> 55.4 (2013).
10	2014-15	S S Shetye, Kawaljeet Kaur, Valsamma Wilson	A review on Natural and synthetic antioxidants used in fighting neurodegenerative diseases	<u>International Journal of Pharmaceutical Sciences</u> 3(4) (2014): 9-14
11	2015-16	S S Shetye, , Valsamma Wilson, Kawaljeet Kaur	STUDY OF SYNERGISTIC EFFECTS ON ANTIOXIDANT ACTIVITY AND ANTIMICROBIAL ACTIVITY OF POLYHERBAL FORMULATIONS CONTAINING FICUS SPECIES"	International Journal of Pharmacy and Pharmaceutical Sciences, Vol 8, Issue 4, April 2016, 50-53.
12	2016-17	ValsammaWilson*, Dr. Sugandha S. Shetye, KawaljitKaur, Satish N. Ambare	4. “Identification and Quantification of Lupeol in Formulation containing Ficus species Using High Performance Thin Layer Chromatography”	World Journal of Pharmaceutical Research, Volume 5 Issue 5, Page 1075-1084 ,15 April 2016,  Impact Factor 6.805, ISSN 2277-7105
13	2016-17	KawaljitKaur*, Dr. Sugandha S. Shetye And ValsammaWilson,	In-Vitro Evaluation Of Two Polyherbal Formulations Containing NeolamarckiaCadamba For Their Antioxidant Activity”	World Journal of Pharmaceutical Research, Volume 5, Issue 9,23 <sup>rd</sup> August,2016.  Impact Factor 6.805, ISSN 2277-7105,

14	2017-18	KawaljitKaur, Dr. Sugandha S. Shetye, Valsamma Wilson,	Synergistic Action and HPTLC Fingerprinting of Novel Polyherb Formulations Containing <i>Neolamarckiacadamba</i> “,	International Journal of Pharmaceutical Science and Research Volume 2; Issue 1; January 2017; Pg. No. 01-08  ISSN: 2455-4685, Impact Factor: RJIF 5.28 ,
15	2016-17	Jacob Jolly* , Shetye Sugandha	<b>Screening of Antioxidant Compounds From Ricinus Communis Leaves For Oxidative Stress Treatment In Jaundice Condition , ,</b>	International Journal Of Pharmacognosy And Phytochemical Research 2017; 9(3); 387-394 ISSN: 0975-4873
16	2016-17	Valsamma Wilson, Sugandha Shetye, Kawaljeetkaur,Satish Ambre, Jolly Jacob	1. <b>Validated HPTLC Method For Standardization of Caffeic Acid in An Ayurvedic Formulation Containing Ficus Species</b>	<b>International Journal of Chemical And Pharmaceutical Analysis</b> , Communicated And Accepted On March 16,2017reference : Manuscript No. 1268/2017
17	2017-18	Jolly Jacob * And S. Shetye	Microwave Digestion and Analysis of Selected Heavy Metals in the Sediments	Ecology, Environment & Conservation, 24 (3) : 2018; Pp. (1018-1026), ISSN: 0971-765x
18	2017-18	Kawaljit Kaur, Sugandha S. Shetye, Valsamma Wilson	Composition and In- Vitro Evaluation of A Novel Formulation Of N.Cadamba With A.Indica.	Abhinav National Monthly Refereed Journal Of Research In Science & Technology, Volume 7, Issue 2 (February, 2018) Pp (21-26) Online ISSN-2277-1174

19	2018-19	Sugandha S. Shetye & Satish N. Ambare	Pyrolysis Gas Chromatography Mass Spectrometry: An Efficient Technique For Identification And Quantification of Rubber Antioxidant P-Phenylene Diamine (6ppd) ,	IJRAR- International Journal Of Research And Analytical Reviews , Volume 5 , Issue 2, April – June 2018 ,Pp (949-954)
	15. Research papers presented at conferences By Self/ Research Scholars			
1	Dr. Sugandha Shetye, Valsamma Wilson Jolly Jacob	‘Standardization Of Nalpamaradi Choorna, An Ayurvedic Formulation Used As Antiseptic For Wound Healing In Southern India’	4th World Summit on Pharmaceuticals and Drug Design , September 21-22, 2018, Dubai, UAE , Sugandha S. Shetye, Valsamma Wilson,	
2	Dr. Sugandha Shetye	-  Nature trails for creating conscientious citizens (oral presentation)	National seminar on ‘Sustaining values: Ideas into actuality’ Dec.9-10,2014  Ruia College, Matunga (east)Mumbai 400019.	
3	MS. Kawaljeet Kaur , Sugandha Shetye	Spectrophotometric Evaluation of free radical scavenging activity of some novel formulations containing N.cadamba  (Received Third prize for poster presentation)	International Symposium on New Horizons in chemistry -2014’Dec.8-9,2014  Vivekananda College of Arts, Science and comm., Mumbai 400 071.	

4	Valsamma Wilson, and Kawaljit Kaur ,Sugandha S. Shetye	Quantification of caffeic acid in ‘nalpamaradi choornam’by HPTLC method	<i>National Conference on Recent trends in Chemistry, accepted, Ratnam College , Bhandup.Jan 17-18,2015</i>
5	Satish Ambare	Sugandha Shetye  Characterization and identification of Vulcanized Rubber additives and degraded products by Pyrolysis/Headspace GC-MS’ <b>Awarded 1st Rank for presentation</b>	National level Interdisciplinary conference on “Emerging Trends in Science” organized by N G Acharya & D K Marathe College of Arts ,Science & Commerce, Chembur , Mumbai on 4 <sup>th</sup> march 2017.
6	Sugandha S. Shetye, Valsamma Wilson, Jolly Jacob	Standardization Of Nalpamaradi Choorna, An Ayurvedic Formulation Used As Antiseptic For Wound Healing In Southern India’ ,	4th World Summit on Pharmaceuticals and Drug Design , September 21-22, 2018, Dubai, UAE

#### Books Published :

	Title of The Text Book	YEAR	ISBN NO. If applicable
1	Foundation Course SYBA/BSc/BCom Semester II, First edition	November 2012	<b>978-93-81578-47-6</b>
2	Basic Principles in Physical Chemistry, FYBSc, seventh Edition	August 2013	<b>978-93-83105-22-9</b>
3	Basic Principles in Physical Chemistry SYBSc, fourth Edition	Jan 2013	<b>978-93-82429-13-5</b>
4	Basic Principles in Physical Chemistry TYBSc,Fourth revised Edition	January 2014	<b>978-93-83681-34-1</b>
5	Practicals in Chemistry ,TYBSc semester V& VI	June 2014, First edition	<b>978-93-5149-028-9</b>

6	Basic Principles in Physical & Analytical Chemistry TYBSc, Fifth revised Edition	July 2014, First edition Aug 2015	<b>978-93-5149-044-9</b> <b>978-93-5149-357-0</b>
7	Basic Principles in Physical & Analytical Chemistry FYBSc, first edition	July 2014	<b>978-93-5149-044-9</b>
8	Basic Principles in Physical & Analytical Chemistry SYBSc, first edition	June 2015	<b>978-93-5149-306-8</b>
9	Basic Principles in Environmental & Industrial Chemistry SYBSc, First edition	July 2015	<b>978-93-5149-325-9</b>

**16. Conference, symposia ,seminars / organized at K.J. Somaiya College of Sc & Comm**

SR. NO.	CONFERENCE ORGANIZED	ROLE	DATE	FUNDING AGENCY
	Enlighten Yourself every Saturday_ Public lecture series on Environment	Convener	July 2014- December 2014.	University of Mumbai
1	Recent trends in chemistry	Org. committee	2003	College
2.	Workshop on research Methodology	Org. committee	2004	College
3	National Conference Post Accreditation Initiatives: Best Practices in Higher Education	Org. Committee	Sept 24-25,2004	NAAC
4	Research Scholars' meet	Org. committee	2005	BRNS, University of Mumbai, Industry
4	State level Nanotechnology : A tiny revolution	Organizing secretary	2005	UGC
5	State level seminar on Honing for Excellence : Leadership and communication skills	Org. committee	2005	UGC
6	National Conference Women empowerment	Org. committee	2007	UGC, University of Mumbai
7	National conference on Environment Management :Watch Your carbon footprint	Organizing Secretary	2009	UGC,MOEF,BRNS
8	International Conference on Remote sensing and GIS	Co convener	2013	UGC,ISRO,

9	Convergence – Annual Intercollegiate Environmental Fest	Convener	2011,2012,2013	Banks/Industries
10	Learn from stalwarts lecture series	Coordinator	2013-14	College
11	Rural Sustainability Immersion Initiative	Coordinator	2013-14	Godavari Biorefineries
12	BASE workshop	Coordinator	2013-14	College
13	Avishkar workshop.	Coordinator	2013-14	College

<b>Sr. No.</b>	<b>Date</b>	<b>Topic</b>	<b>Venue</b>	<b>National/ international/State/local</b>	<b>Attended/ paper presented/ organized</b>
<b>1</b>	June 2018	UGC HRDC refresher Course in Environmental Studies	K J Somaiya College of Science and Commerce	<b>National</b>	<b>Convener</b>
<b>2</b>	September 29,30 2018	Student and Teacher's workshop at Industrial Green Chemistry world – IGCW 2018	Green Chemis Tree Foundation, K J Somaiya College of Science and Commerce	<b>National</b>	<b>organization</b>
<b>3</b>	January 16-23,2017	94 <sup>th</sup> DAE –BRNS Workshop on Radio chemistry and applications of radioisotopes	K J Somaiya College of Science and Commerce	<b>National</b>	<b>Convener</b>
<b>4</b>	October – November 2016	UGC HRDC refresher Course	K J Somaiya College of Science and Commerce	<b>National</b>	<b>Coordinator</b>
<b>5</b>	Jan 3-7, 2015,	National Children science congress	University of Mumbai , BKC	<b>National</b>	<b>Organizing committee</b>

			Ground		
6	22 <sup>nd</sup> July – 6 <sup>th</sup> December 2014-15	Enlighten Yourself Every Saturday’(EYES) on the theme Environment for Future ( 9 Lectures)	University of Mumbai	State	organized
7	November 22- 23,2013	Material Chemistry NWMC 2013	BARC, Mumbai 400085.	Second National workshop	Attended
8	December 8,2013	Teacher’s workshop at Industrial Green Chemistry world –IGCW 2013	Green Chemis Tree Foundation	International	Attended
9	October 2013	Vidnyan Yadnya	Somaiya Vidyavihar	College	Organizing committee Member
10	October 22- 23,2013	Training program on Basic Techniques in Molecular Biology –	Somaiya Vidyavihar	College in collaboration with National Facility on Biotechnolog y, Khalsa College	Coordinator
11	October 14,2011.	Climate Change : Shifting science and changing policy- -	Center for extramural Studies, University of Mumbai	International Conference	Attended

#### 17. Establishment of Department/laboratory

Course coordinator, M.Sc. Environmental Science

Department of Environmental Science at K.J. Somaiya College of Science and commerce established in 2010 with the postgraduate course , M.Sc. in Environmental Science. I was appointed as Course Coordinator for the course from its inception in 2010. A fully equipped spacious laboratory and a departmental Library was developed for the course.

### **Contribution to College Administration:**

#### **Dean (Academic Affairs)**

#### **Administrative Responsibilities:**

1. Printing and distribution of First year B.Sc/B.Com Booklets –July 2018
2. Coordination of Curriculum development and Budget for new academic programs - Certificate and diploma courses-2018-19
3. MoU with NSWAI for PG diploma in Solid Waste management - October 2018
4. Manpower requisition for various departments – visiting faculty, temporary CHB faculty etc April 2016- April 2018
5. Admission process for PG admissions 2016-to 2018
6. Induction and convocation program for PG students and students – March 2016, 2017, March 2018
7. Space Audit and presentation on Space requirement for PG and research Programs- Feb 2018
8. Creation Signages for all departments, corridors , Libraries and college office during NAAC visit –April 2016
9. Display of inspiring quotes in the staircases and corridors - April 2016
10. Member, Management Board Committee , Autonomous Institution
11. Member , Working Groups ,Self financed SVV University (Syllabus and Future academic Program, Assessment and Campus Development and Infrastructure)

#### **Future programs:**

- a) Some discussion regarding collaborative projects is ongoing with Environment monitoring Laboratory and forest Department , NGOs ,
- b) planning for center of excellence in environmental studies –Waste management , Biodiversity conservation ,
- c) Summer or winter school in Biodiversity conservation for international students

#### **Co-ordination of New Academic Programs:**

1. UGC –HRDC - Refresher courses in Environmental Studies

- Theme- Biodiversity Conservation and Sustainable Development – June 1-21, 2018
- Two Day Workshop On World Environment Day –Beat The plastic Pollution in collaboration with NSWAI and MPCB – June 22-23,2018
  - Honors' Experience program for UG students-2016 -17  
One Honor's student was awarded Global Student Leadership Fellowship on Environmental Issues by University of Montana, nominated by US Embassy -July 2018- August 2018.
  - PG diploma in Solid Waste Management - November 2018

#### **18. Contribution to University of Mumbai :**

Chairperson, Ph.D Entrance Test ,Dec 2018, University of Mumbai.

Chairperson, M.Sc. Environmental Science (Practical Examination) since 2014-15 till date, University of Mumbai

Member, Syllabus Committee, SYBSc(Chemistry) , University of Mumbai-2014-15

Member Syllabus Committee for Msc part I and II Physical Chemistry since 2010

Paper setter/Moderator /Examiner for M.Sc. Physical Chemistry since 2010

Member, Syllabus committee for M.Sc. Environmental Science - part II – February 2013

Chairperson, Sustainability Management, Paper VII, M.Sc. Environment Science– Part II- February 2013

Paper setter/Moderator /Examiner TYBSC Applied Component – Waste Recycling and Nonconventional sources of Energy- March 2013-2016

#### **Autonomous Institution:**

Member, Board of studies in Chemistry-Ruia College of arts and Science, Mumbai 400 019

Chairperson, Board of Studies in MSc. Environmental Science, - K J Somaiya college of sc and comm.,Mumbai 400 077

A revised syllabus for the Autonomous course - June 2014 , June 2018

#### **19.Knowledge of Language:**

Read	Write	Speak	Learning
Marathi,Hindi,English	Marathi,Hindi,English	Marathi,Hindi,English	Sanskrit

#### **20. a.Teaching Experience College / University :**

i) Under Graduate : 27 years

ii) Post Graduate :18 years

iii) M.Phil /M.Sc. by research: 14 years

b. Number of years of Research Experience: 14 years

c. Supervision of candidates for Research : Nine students

	Degree Awarded (in number)	Under guidance (in number)
M.Sc. by research	5	0
Ph.D.	2	3

<b>List of Ph.D. Students and their topics</b>				
1	Ms.Kawaljeet Kaur	Composition and standardization of polyherbal formulations containing Neolamarckia cadamba for investigation of the synergistic effect on its antioxidant activity.	Ph.D	August 2011  Reg in May2012
2	Ms. Valsamma Wilson	Phytochemical screening and development of rapid HPTLC method for the standardization of polyherbal Ayurvedic formulations containing various Ficus species	Ph.D.	September 2011  Reg in May2012
3	Mr. Satish Nana Ambare	Characterisation & identification of Vulcanised rubber and quantification of additives and degraded products by Pyrolysis/Headspace GC-MS.	Ph.D	September 2012
4	Mrs.Smita V. Zade(Choudhari)	To demonstrate the effectiveness of low cost adsorbent and some Bioindicators for the improvement of river water quality of Kundalika river in Roha,MIDC.	Ph.D.	September 2012
5	Ms . Sudha Shukla	Topic to be approved	Ph.D.	November 2017

21. Minor research Projects funded by University of Mumbai - Five Minor research projects completed.

22. Consultancy Activity/Projects and /or Industry Interactions :

Serial no.	Title of the project	Agency/industry	Duration of consultancy	Grants received
1.	Waste water Analysis ongoing project	Vanshakti, NGO	Since 2013-14	
2.	Maharashtra Pollution control board	MPCB	2006-08	Rs.150000/-

23. Extracurricular Activities:

**University of Mumbai -Syllabus Committee workshops- as Resource person:**

University of Mumbai, Board of Studies workshops

**Resource person:**

1. BOS Workshop on the Revised syllabus for SYBSc, Ratnam College,Bhandup, Mumbai- April23,2015.
2. Revised Syllabus in Physical Chemistry for M.SC – Dapoli Urban Bank Senior college- June30, 2012  
Revised Syllabus in Physical Chemistry for M.SC – Wilson college- July 4, 2012
3. Revised Syllabus in Foundation Course for SYB.SC/BCom/BA – NSS college,Tardeo,Mumbai- August 4, 2012  
Revised Syllabus in Foundation Course for SYB.SC/BCom/BA – R J Jhunjhunwala college,Tardeo, Mumbai- August 4, 2012
4. Revised Syllabus in Physical Chemistry for M.SC Sem III and IV– Ruia college- April16, 2013
5. Member of Local Enquiry Committee to Rayat Shikshan Sansth's Karmaveer Bhaurao patil college , Vashi for continuation of M.Sc on September 17, 2009.

**Environmental Awareness Initiatives : Invited Speaker /Guest Speaker**

1. Invited As Guest Speaker on WORLD OZONE DAY –16<sup>th</sup> September 2017, 18<sup>th</sup> September 2018 at Maharashtra Pollution Control Board (MPCB) Head Office ,Sion East Mumbai
  - a. Speech Topic : Climate Change – Mitigation and action Plan
2. Organization of a Seminar on “Plastic ban and Solid waste Management” at Neharu Nagar ,Kurla (East ) Mumbai 400024 for the residents in collaboration with the Maitra Pratishthan - 4<sup>th</sup> August 2018 ,5.00pm to 9.00 pm  
Public lectures on -1. Why Plastic Ban and how to manage your plastic waste ?, Maitra Pratishthan, Nehru nagar , Kurla East –for the residents of Nehru nagar .

3. Mentoring Students for DST- INSPIRE Program Presentation on “ PRINCIPLES Of GREEN CHEMISTRY” -2013- Elphinstone college- September 25,2013
4. Chief Guest for Inauguration of Science association and presentation on” BIODIVERSITY CONSERVATION” -SIES College- September 2,2013
5. Short term Teacher Training program (STTP) organized by Dept. of Basic Sciences and Humanities , K.J. Somaiya Institute of Engg. & Information technology, Sion, Jan.12, 2010, Invited as speaker for the topic ‘Biodiversity Conservation’ for Engg. College teachers.
6. World Environment Day, June 5, 2007- Invited for Presentation on” Global warming and Climate Change” at Godavari Sugar Mills, Samirwadi.
7. Invited for giving a talk on “Global warming and climate change” by the Science club of Dnyansadhana College, Thane on December 2, 2005.

### **Bombay Association for Science Education (BASE) :**

Several workshops and symposia on various topics were organized for school teachers through BASE, an outreach program of TIFR, Mumbai since 1995.

STEP (Scientist -Teacher Exchange program) workshop - Presentation on “Chemistry Perfumes Life” - August 11, 2007.

Teacher Training Workshop in Chemistry: July 26, 2008, August 1, 2008 - Amulak High school, Matunga (East).

Teacher Training Program in Chemistry - BASE - July 20, 21, 28 2012

International Junior science Olympiad Training Program

- |                |                   |
|----------------|-------------------|
| i. TIFR:       | October 18, 2007, |
| ii. IIT Bombay | May 2008          |
| iii. HBCSE-    | May 2009          |

### **Organization of Excursions /field visits for M.Sc. Environmental Science Students**

1. Expedition to Western Ghats-Coorg , Karnataka- 2012
2. Godavari Biorefineries, Samirwadi- 2012
3. Excursion to Goa- Bondla, Mahavir Sanctuaries and Sacred Groves- 2013
4. Excursion to Ranthambhor, Bharatpur and Tarun Bharat Sangh, Rajasthan- Jan 2014 , Yamuna Biodiversity park, Delhi -Jan 2018
5. Environment Sanitation Institute, Sughad, Gandhinagar, Gujarat, Jan 29-1<sup>st</sup> Feb, 2015,

6. Wildlife Institute of India, Forest Research Institute of India, Navdanya Beej Vidyapeeth, Dehradun, Jim Corbett National Park, Uttarakhand, Feb. 25-March 3, 2015

7. Water Harvesting Project, Nareshwadi, Dahanu, 30<sup>th</sup> October- 2<sup>nd</sup> November, 2014

➤ **Immersion Program: Rural Sustainability Initiative program At Samirwadi**

Induction program 10-11<sup>th</sup> Dec. 2013-

Sameerwadi camp 9<sup>th</sup> Feb-17<sup>th</sup> Feb 2014

➤ **Organisation of 15 days UGC Sponsored High Altitude Trekking Program to Har –Ki – Doon Vally, Uttarakhand. July 7-22, 2006 for the Hikers' club, Somaiya college.**

➤ **NCC Care taker officer, 1 MAH Girls Bn, NCC for the period 2008- 2012 .**

Organized various activities through NCC. Viz. Inter unit Quiz on Defense and NCC activities – Nov 2009. Blood Donation camp – September 2009. Human Chain Formation at Marine Drive – Oct. 2009 etc.

B certificate theory and practical examination was organized in Somaiya Vidyavihar Campus Feb 2010.

➤ **Organization of Environmental film festival – Prakriti 2010 in March 2010.**

➤ **Nature Club/ Hikers Club activities since 2004**

➤ **Preparation of NAAC Reaccreditation report for the college -2009**

**Service to community: Adult Education, Extension Service etc.**

Volunteering for Conservation Education Center, BNHS- conducted Nature trails, slide shows and activities for the school children, college students, corporate groups and Underprivileged students through the center.

**Youth Hostels Association of India:**

Participated in several national and state level trekking programs since 1996

National Heritage Trek Expedition 2012-Youth Hostels association Of India-Udhampur, Jammu & Kashmir–May 2012.

Volunteered for Environmental Protection Program 'Keep Rohatang Pass Clean' organized by Youth Hostels association Of India-Manali, Himachal Pradesh–May 2013.