



Matushri Virbaima Mahila Science & Home Science College

Kalawad Road, Near Under Bridge, RAJKOT

PHONE NO. +91-281-2452997 email ID : mvmscience@yahoo.co.in &

(Re-Accredited 'A' Grade by NAAC, CGPA- 3.04)

Self Appraisal Form for Teachers

A. Personal Information :

| | | |
|---|----------------------------------|---|
| 1 | Name | Dr Valentina V Umrania |
| 2 | Residential Address with Pin No. | 'Vraj'2-Kalyan Society Godown Road Rajkot 360002 |
| 3 | Mobile No. | +91 98251 41104 |
| 4 | Landline No. of Resident | 0281 2461104 |
| 5 | Other alternative No. | - |
| 6 | E-Mail ID | valentina.umrania@gmail.com |
| 7 | Date of Birth | 24th April 1961 |

B. (a) General Information :

| | | |
|---|--------------------------------|-----------------------------------|
| 1 | Designation | Associate professor |
| 2 | Department | Microbiology |
| 3 | Specialization if any | Environmental Microbiology |
| 4 | Date of Appointment | |
| | (i) In the present institution | 15/12/1986 |
| | (ii) In the present post | 15/12/1986 |
| 5 | Honours conferred | - |

B.(b) Academic Qualification :

| Examination | Board/University | Subjects | Year | Division/Grade/Marks |
|-------------|------------------------------|---------------------|-------------|--------------------------------|
| BSc | Gujarat University | Microbiology | 1981 | 1st Division |
| MSc | Gujarat University | Microbiology | 1983 | 1st Division |
| PhD | Saurashtra University | Microbiology | 1998 | ----- |
| | | | | |

C.(a) Research Experience & Training :

| Research Stage | Title of work/ Thesis | University where the work was carried out |
|---|---|---|
| M.Phil. or equivalent | | |
| Ph.D. | ' Studies on biogeotechnologically useful thermophilic microbes ' | Saurashtra University Rajkot 1998 |
| Post-Doctoral | 'Bioremediation of PAHs' | University Blaise Pascal Clermont-Ferrand France Nov 2005 to June 2006 |
| Publication (give a list separately) (Annexure-I) | <u>(Annexure-I)</u> | |
| Research Guidance (give names of Students guided successfully) (Annexure-II) | <u>(Annexure-II)</u> | |
| Training (Please specify) | | |

C.(b) Research Projects Carried out :

| Title of the project | Name of the funding agency | Duration | Remarks |
|--|----------------------------|--------------------------------|----------------------------------|
| “Screening and Development of Potent Strains for POP Degradation from native contaminated soil” | UGC | 8-03-2012 to March 2014 | Rs. 2 lakhs is sanctioned |

C.(c) Seminars, Conferences, Symposia, Workshops, etc. Attended :

| Sr No | Name of the Seminars, Conferences, Symposia, Workshops, etc. | Name of the sponsoring Agency | Place & Date | Title of the paper presented (if any)/ page number |
|----------------------|---|---|---|--|
| International | | | | |
| 1 | International Conference on Frontiers of Biotechnology, Trivandrum, | RRL, Trivandrum | Regional Research Laboratory, Trivandrum November 26-29,1997 | ‘Pyrrhoitite solubilization by multi heavy metal tolerant thermophiles’ EB-18, p.132 |
| 2 | International Conference on Microbial Biotechnology, Trade and Public Policy, Hyderabad, July 15-17-2000, EM 17,p.116. | Dept Of Microbiology, OsmaniaUni, Hydrabad | Hyderabad, July 15-17-2000 | ‘Leaching of pyrrohoitite by multi heavy metal tolerant acidothermophiic autotrophs isolated from local environment’ EM 17, p.116 |
| 3 | <i>Extremophiles- 2000. The 3rd International Congress on</i> | THUU, Hamberg-Harberg, Germany | Hamberg-Harberg, Germany | ‘Thermoacidophilic autotrophic bacteria from |

| | | | | |
|-----------|--|---|---|--|
| | Extremophiles, Hamburg, Germany. | | 3-7 September, 2000 | Saurashtra region of western India and their potential in biomining’, Poster No- 17, p. 83. |
| 4 | International Conference on New Horizons in Biotechnology, Trivandrum, India, | IRD,France;Uni of Ioannina, Greece; Uni of Venice,Italy;Uni F P,Brazil | April 18 – 21, 2001, RRL, Trivandrum | ‘Screening of thermoacidophilic autotrophic bacteria for covellite solubilization’ IB-127, p. 147. |
| 5 | <i>Thermophiles-2001</i>, International Conference on Biology and Biotechnology of Thermophilic Microbes, New Delhi, India, | Dept of Microbiology UDSC, New Delhi | December 3-7, 2001, ET-4, p 55 | ‘Thermoacidophilic autotrophy as microbial biosorbents’ , ET-4, p 55. |
| 6 | International Conference of SAARC Countries on Biotechnology in Agriculture, Industry & Environment, Karad, | Y. C. College Karad, Dist Satara (MS) | Y. C. College Karad, Dist Satara (MS) December 28-30, 2001 | ‘An eco-friendly alternative for removal of multi heavy metals from industrial effluents’, E-42, p 163 |
| 7 | International Conference on Emerging Frontiers at the Interface of Chemistry and Biology, Trivandrum, India, | RRL, Trivandrum CSIR | April 28-30, 2003 | “An Eco-friendly multi metal biosorption by thermophilic autotrophs” pg-109 |
| 8 | ‘Extremophiles 2004’, ASM 5th International Conference on Extremophiles, Sep 19-23 Maryland USA . | American Society of Microbiologists | Poster no. 240, Abstract pg 133. | ‘Screening of Acidothermophilic autotrophes for metal adsorption and for chalcopyrite, covellite and pyrrhoitite bioleaching potentiality from Western India’ |
| 9 | 9th National Conference on Bioactive Heterocycles and drug discovery paradigm and International Symposium on Recent Trends in Drug Discovery, Rajkot | ISCB and CDRI ,Lucknow | Dept of Chemistry, Sau Uni Rajkot 8-10 Janurary,2005 | ‘Bioactive molecules for metal extraction and bioaccumulation at extreme environmental conditions’ p 204, p-217. |
| 10 | International Conference on ‘Microbial Diversity | UDSC New Delhi | UDSC New Delhi Apr 16-18 ,2005 | ‘Bioleaching of metal ores using thermophilic bacteria’ |

| | | | | |
|----|--|---|--|---|
| | | | | MDE 14 p 214. |
| 11 | 3rd Convention of BRSI & International Conference on 'Exploring Horizons in Biotechnology: A Global Venture' | BRD School Of Biosciences, S P Uni and C V Mandal, V V Nagar | VV Nagar, Gujarat, Nov 2-4,2006 | Bioremediation of Poly Aromatic Hydrocarbons, EB 40, p 177. |
| 12 | International Symposium on Microbial Biotechnology: Diversity, Genomics and Metagenomics' | 49th AMI, Dept of Zoology, North Campus, Dept Of Microbiology South Campus, Uni of Delhi, | Dept Of Microbiology South Campus , Uni of Delhi, 18-20 Nov. 2008 | Microbial diversity of Tsokar Lake sediments in the arid Ladakh, India, EB 210,pg 148. |
| 13 | International Symposium on Microbial Biotechnology: Diversity, Genomics and Metagenomics' | 49th AMI, Dept of Zoology, North Campus, Dept Of Microbiology South Campus, Uni of Delhi, | 18- 20 Nov.2008, EB 257, pg 172-73. | 'Analysis of Soil Quality Parameters in Relation to Ecological Status of Freshwater Reservoir-Nyari II,Rajkot,Gujarat, |
| 14 | 49th AMI, Dept of Zoology, North Campus, Dept Of Microbiology South Campus , Uni of Delhi, | Dept of Zoology, North Campus, Dept Of Microbiology South Campus , Uni of Delhi, | 18- 20 Nov.2008, AM 543, pg 355-56. | 'Production of hydrolytic enzymes by Trichoderma during in vitro antagonism with <i>Fusarium oxysporum</i> F sp. Ciceri Plant pathogen,' |
| 15 | 3rd LIMPACS International Conference on Holocene Lake Records:Patterns,Impacts, Causes And Societal Importance Of Abrupt Hydroclimatic Changes | Punjab Uni, Chandigarh, | 5-8 March, 2009 Abstract pg 139-40. | Culturable and non culturable microbes in the Tsokar lake sediments: Relevance in the arid geophysicochemical environment' |
| 16 | Intl Conf on Genomic Sciences VII Convention of Biotech Research Society, India Indo-Italian Workshop on Industrial and Pharmaceutical Biotechnology | Madurai Kamraj Uni, Madurai, CGB-03, pg .152... Received Best Poster Award. | School of Biological Sciences Madurai kamraj Uni, Madurai Nov 12-14, 2010 | 'A novel approach for the identification of potential drug targets and its lead compounds for selected MDR human pathogens,' |
| 17 | Intl Conf on Genomic Sciences VII Convention of Biotech Research Society, India Indo-Italian Workshop on Industrial and Pharmaceutical Biotechnology | Madurai Kamraj Uni, Madurai, PGB-10, pg .102-03. | School of Biological Sciences Madurai kamraj Uni, Madurai Nov 12-14, 2010 | Morphological characterization of Trichoderma species and its role in inhibiting of phytopathogenic fungi <i>Sclerotium rolfsii</i>,' |
| 18 | In : 15th ISCB Intl Conference' Bridging Gaps in Discovery and Development: Chemical And Biological Sciences | Dept of Chemistry, Saurashtra University, Rajkot , 4-7 Feb,2011,PP-281,pg 402-03. | ISCB ,Lucknow ;Dept of Chemistry, Sau Uni Rajkot | ' Microbial approach for the reduction of organic pollutants from soil,' |

| | | | | |
|----|---|---|---|---|
| | for Affordable Health, Wellness And Sustainability' | | | |
| 19 | 52nd Annual Conference of AMI, Intl Conf on Microbial Biotechnology for Sustainable Development | Panjab Uni, Chandigarh | Punjab Uni, Chandigarh Nov 3-6, 2011 | 'Microbial biotechnology for reduction of organic pollutants in soil' EM-267, pg. 142-43. |
| 20 | 52nd Annual Conference of AMI, Intl Conf on Microbial Biotechnology for Sustainable Development | Punjab Uni, Chandigarh, EM- 213, pg 120-21. | Punjab Uni, Chandigarh Nov 3-6, 2011 | 'Soil microbial diversity in relation to ecological significance of fresh water reservoir at Rajkot, gujarat' |
| 21 | 52nd Annual Conference of AMI, Intl Conf on Microbial Biotechnology for Sustainable Development | Punjab Uni, , Chandigarh, | Punjab Uni, Chandigarh Nov 3-6, 2011 | An <i>In silico</i> approach for the identification of potential drug targets & its inhibitors for <i>Mycobacterium</i> species,' MVM- 142, pg.311-12. |
| 22 | WCMANU International | Gurukul Kangri Vishwavidyalaya, Haridwar | Gurukul Kangri Vishwavidyalaya, Haridwar 11-13 Nov 2011 | Oral 'Transcending the intangible- energy fields with reference to human body and environment' pg 235 |
| | | 2012-13 | | |
| 23 | Contemporary Development in Science | U.G.C. Sponsored on Scientific Wealth of Physics, SWP, | UGC & Dept. of Physics, H.& H.B. Kotak Institute of Science, Rajkot 26/8/ 2012 | 'An Enviromental Friendly Concept: Bioremediation' |
| 24 | 6th Science Symposium 2013 on Recent Trends in Science & Technology | | Christ College, Rajkot 20-1-13 | Attended |
| | | 2013-14 | | |
| 25 | The 5th Congress of European Microbiologists | 5th FEMS, Kenes Internationals | Held in Leipzig, Germany, July 21-25,2013 | 'Bioremediation : Reduction of organic pollutants in soil for sustainable environment'. Poster no 185, pg 265 |
| 26 | HOPE 2013 Alexander von Humbolt Foundation, Humbolt House of Uttarakhand, Nainital | Humbolt House of Uttarakhand | Alexander von Humbolt Foundation, Humbolt House of Uttarakhand, | Invited talk 'Culturable and non culturable microbes in the Tsokar lake sediments: Relevance |

| | | | | |
|----------------|---|--|---|---|
| | | | Nainital 12- 14 Sep 2013 September, Nainital | in the arid geophysicochemical environment, |
| 27 | 7th National Science Symposium 2015 on Recent Trends in Science & Technology | Christ College | Christ College, Rajkot 23/02/ 2014 | National, oral “ Biodegradation of Organic Pollutants in Soil” |
| 28 | ‘Environment Issues & Challenges’ | UGC sponsored Seminar | UGC & H.B. Jasani Arts & Shri N.K. Jasani Commerce College, in collaboration with Gujarat Geographical Association Ahmedabad 19/3/2014 | “Degradation of Pesticides by Microbes” |
| 2014-15 | | | | |
| 29 | 4th International Sci Congress Association: Global Research, Enhancement, Reforms and Commercialization | Intl Sc. Congress Association & Pacific University, Udaipur | Intl Sc. Congress Association & Pacific University, Udaipur. 8-9 /12/14 | Intl ,Oral : ‘Application of Acidothermophiles in Biomining Technology’ Pg 58 in abstract book |
| 30 | 4th International Sci Congress Association: Global Research, Enhancement, Reforms and Commercialization | Intl Sc. Congress Association & Pacific University, Udaipur | Intl Sc. Congress Association & Pacific University, Udaipur 8-9 /12/14 | Intl ,Oral : ‘Accurate Perception-Correct Expression; The Essence of Higher Education” Pg 286 in abstract book |
| 31 | “One Day National Seminar on Recent Advances in Biochemical Research” | UGC & Dept. Of Biochemistry | Saurashtra University, Rajkot 14/2/15 | National , oral : “Screening of Chemolithotrophic Microbes for Chalcopyrite Biosolubilization” |
| 32 | ‘Biodiversity and Bioresource Utilization’ | UGC-CAS Natl. Conference | Bioscience Dept Saurashtra Uni Rajkot 17-18 /3/15 | National , oral: “Green Synthesis of AgNP and AuNP” |
| 2015-16 | | | | |
| 33 | 9th National level Science Symposium on Recent Trends in Science & Technology | Christ College | Christ College Rajkot 14/2/16 | National , oral 'Bioremediation of Monocrotophos by Soil Bacteria' |
| 2016-17 | | | | |

| | | | | |
|----------------|--|--|---|--|
| 34 | National Conference on 'Quality Enhancement & Sustenance in Teaching, Learning & Evaluation in Higher Education' | IQAC, Christ College, Rajkot | IQAC, Christ College, Rajkot 20-8-2016 | National, oral 'Domains of Awakening in Education' |
| 35 | "Genetically Modified Food & Food Security" | UGC Sponsored National Level Seminar | Shree M.N. Virani Sci College (Autonomous) 11/2/2017 | National, attended |
| 36 | International Science Symposium 2017 on Recent Trends in Science & Technology | Christ College | Christ College, Rajkot 26-27 Feb 2017 | International, oral 'Acidothermophilic autotrophic Bacteria from Local Industrial Soil' Abstract- pg no 26 |
| 37 | "Challenges of Deglobalization for India" | UGC IQAC Cell National Symposium | Smt. H.B Jasani Arts & Sri N.K Jasani Commerce College Rajkot 9/3/2017 | National, attended |
| 2017-18 | | | | |
| 38 | Seminar on Drug Discovery | Christ College, Rajkot | Christ College, Rajkot 21/09/2017 | Attended |
| 39 | National Conference on Recent Innovations in Science, School of Science, RK University, Rajkot | National Conference on Recent Innovations in Science | 19-20/01/2018 | Poster: 'Biosynthesis of Gold Nanoparticles' |
| 40 | Seminar on Indian Culture and Philosophy | Ramkrishna Aashram, Rajkot | 3-4/02/2018 | Attended |
| 41 | 10th National Level Conference | Christ College, Rajkot | Christ College, Rajkot 11/02/2018 | Poster: 'Application of Gold Nanoparticles in Medicine' |
| 2021-22 | | | | |
| 42 | International E-Science Symposium-2022 on Recent Trends in Science and Technology | Christ College, Rajkot, Gujarat, India Sponsored by: GSBTM, DST | 22-23/1/2022 | Effective utilization of the green waste and isolation of multi-potent bacteria for sustainable environment |

C.(d) Training/ Workshop/FDP/Orientation/ Refresher Course :

| Sr. No. | Name of Programme | Duration | Organized by |
|-----------------|--------------------------|-------------------|---|
| Training | | | |
| 1 | Radio Immuno Assay (RIA) | 2/4/84 to 11/5/84 | Bhabha Atomic Research Centre BARC ,Tromby Sponsored by Dr Nandani Patho Lab, Rajkot |

| | | | |
|---------------------------------------|---|-----------------------------------|--|
| 2 | Molecular Biological Experiments | 23-8-05 to 31-8-05 | Dept of Microbiology Uni of Pune |
| 3 | One day hands on training in 'Bioinformatics' | 14/3/2015 | GSBTM and Hemchandracharya North Gujarat University Patan |
| 4 | IQAC Meet for Antal ICI,NAAC | IQAC Saurashtra University,Rajkot | NFDD, Saurashtra Uni, Rajkot 3/08/2017 |
| Workshop | | | |
| 1 | Syllabus Formation Workshop | 2012-13, 13-14, 14-15 till date | Microbiology Board of Studies Sau Uni and syllabus formation committee |
| 2 | Syllabus Formation Workshop | 09/02/2016 | Microbiology Board of Studies Sau Uni & Gyanyagna college of Science & Management |
| FDP | | | |
| 1 | FDP-Concepts of Networking | 12 to 23 August 2013 (12 days) | IQAC, MVM Sc & HSc College, Rajkot |
| 2 | FDP-Computer Basic | 07 to 17 July 2014 (10 days) | IQAC,MVM Sc & HSc College, Rajkot |
| 3 | FDP on "Self Awareness and Higher Goals in Education' | 30 May to 3 June 2016 | Sponsored by Centre for Continuing education And Teaching Learning Centre ,Department of Humanities & Social Sciences and Management Studies, IIT Madras |
| 4 | Faculty Development Programme | 11 to 20 August 2016 (10 days) | IQAC,MVM Sc & HSc College, Rajkot |
| 5 | International FDP | 3-4/11/2017 | IQAC, Saurashtra Uni Rajkot |
| Orientation / Refresher Course | | | |
| Sr. No. | Name of Programme | Duration | Organized by |
| 1 | Orientation | 7-3-89 to 4-4-89 | UGC Sponsored, ASC Sau Uni Rajkot |
| 2 | Refresher- I | 2 to 22-12-91 | UGC Sponsored, ASC Guj Uni Ahmedabad |
| 3 | Refresher- II | 26-2-96 to 16-3-96 | UGC Sponsored, ASC Guj Uni Ahmedabad |
| 4 | Refresher- III | 20 -3 -01 to 16 -4 -01 | Pune Uni, Conducted at NMU, Jalgaon Jalgaon |
| 5 | Refresher- III | 24-4-01 to 11-5-01 | UGC Sponsored, ASC Guj Uni Ahmedabad |

C (e) Details as a resource person (Judge, Invited talk/Expert lecture/PhD Course work lecture/Review committee member

| | | | | |
|--------------|------------------------------|--|-----------------------|---|
| Sr No | Event | Title of presentation | Date and Place | Organised by |
| 1 | Visit - Meeting Invited Talk | "Environmental science and Human Life" | 10 Sep 2000 | Confederation of Indian Organisation, UK |
| 2 | Visit - Meeting Invited Talk | .'Applications of extremophiles' | 1 Sep 2000 | Dr S R Chhabra, School of Pharmaceutical Sciences , |

| | | | | |
|-----------|--|--|-----------------------------|--|
| | | | | Uni Park Nottingham, UK |
| 3 | Visit - Meeting Invited Talk | “Potential fields of Biotechnology” | 12 Sep 2000 | Dept of Microbiology and Immunology, Uni of Leicester, UK |
| 4 | Visit - Meeting Invited Talk ‘Community meet, Belgrave Neighborhood Centre | “”Global warming – Role of an Individual”” | 12 Sep 2000 | Belgrave Neighborhood Centre, Leicester,UK |
| 5 | Invited Talk in Public meeting of Rotary members | “Microbiology in Everyday life” | 13 Oct 2001 | Rotary Club of Rajkot |
| 6 | Invited Talk in National Conf on environmental Biology | “Screening of Geomicrobiologically important extremophiles from various ecosystems of Rajkot” | 17-18 Oct 2002 | Dept of Biosciences, Saurashtra Uni Rajkot |
| 7. | Visit - Meeting Invited Talk on ‘Biosolubilization of metals sulphides by chemoautotrophic acido thermophilic bacteria, | R R L Trivandrum | 28-30 April 2003 | R R L Trivandrum |
| 8. | Invited Talk “Cell Biology “ | IGNOU | 24 July 2006 | Gyan Vani , All India Radio |
| 9 | Invited Talk ‘Vaigyanik Jeevan Padhhati”’, | Junagdh jilla nu 41th ganit-vigyan pradarshan | 2 Oct 2006 | Junagadh |
| 10 | Invited Talk ‘Air Pollution’ | IGNOU | 31 Jan 2007 | Gyan Vani , All India Radio |
| 11 | Invited Talk ‘Screening and optimization of PAH degrading microbes from native contaminated soil’ | S I Patil Arts and Commerce College, Shahda, Maharashtra | 17-18 Feb 2007 | Shahda, Maharashtra |
| 12 | Invited Talk ‘Scope in Environmental Biotechnology, | V V P Engineering College ,Rajkot | 21 Feb 2007 | V V P Engineering College ,Rajkot |
| 13 | Invited Talk ’PAH degradation and application of surfactants’ | Dept of Biosciences | 1 Feb 2007 | Dept of Biosciences, Saurashtra Uni, Rajkot |
| 14 | Invited Talk ‘Tsokar lake sediments microbiological work’ | Dept of Geology, Kumaun Uni Nainital | 28 May 2008 | Dept of Geology, Kumaun Uni Nainital |

| | | | | |
|----|--|--|-----------------|---|
| 15 | Invited Talk ‘Bioremediation of organic pollutants-PAHs, | Dept of Microbiology, | 3 June 2008 | Uni of Pune, Pune |
| 16 | Invited Talk ‘Environmental aspects with Thermophiles’ | Dept of Microbiology | 21-23 Nov 2008 | Uni Of Delhi South Campus, New Delhi |
| 17 | Invited Talk ‘Donate Blood and save Life’, | Navjivan Blood Bank | 2 Dec 2010 | Thane, Mumbai |
| 18 | Invited Talk : “How to be a good ,ethical and efficient researcher?” | Manipal College of pharmaceutical sciences | 4-5 June 2011 | Manipal Uni , Manipal |
| 19 | Invited Talk Siderophores: Structure, Function and significance ” | R K Uni, Rajkot | 18 Oct 2012 | R K Uni, Rajkot |
| 20 | Invited Talk “Bioremediation of organic pollutants’, 26 June 2013 | Short Term Training Program-STPP at VVP Eng College ,Rajkot 24 – 28/6 / 2013 | 26 June 2013 | -STPP on “Environmental Awareness and Protection Technologies”, VVP Eng College, Rajkot |
| 21 | Invited Talk on ‘Culturable and non-culturable microbes in the Tsokar lake sediments’: Relevance in the arid geophysicochemical environment’ | “HOPE-2013 | 12 -14 Sep 2013 | Nainital |
| 22 | Invited Talk on ‘FEMS-2013 Leipzig Germany: The New Dimension in Microbiology’. | Bioscience Dept. Sau Uni Rajkot | 10 Oct 2013 | Bioscience Dept. Sau Uni Rajkot |
| 23 | Talk on air ‘Bacterial Photosynthesis’ | BISAG | 12 Dec 2013 | BISAG Gandhinagar |
| 24 | Invited Talk on ‘Scope of Nano biotechnology for Medicine’ | Science and Technology for Modern society | 18 Jan 2014 | GUCOST and VVP Engineering College ,Rajkot |
| 25 | Judge | 7 th National Sc. Symposium | 23 Feb 2014 | UGC Sponsored 7 th National Sc. Symposium Christ College Rajkot |
| 26 | Resource Person “ Cancer Biology” | GSBTM Workshop | 22 April 2014 | GSBTM and Shri M N Virania Science College Rajkot |
| 27 | Resource Person “ Value Education” | GSBTM Workshop | 23 April 2014 | GSBTM and Shri M N Virania Science College |

| | | | | Rajkot |
|----|--|---|---------------|---|
| | | 2014-15 | | |
| 28 | Invited talk on 'Environment Consciousness' | Jasani Arts and Commerce College | 2 Jan 2015 | Jasani Arts and Commerce College Rajkot |
| 29 | Judge in Poster session In Bioinformatics | 8 th National Sc Symp 2015 | 22 Feb 15 | 8 th National Sc Symp 2015 on Recent Trends in Science & Technology Christ College, Rajkot |
| 30 | Judge in Poster presentation in PG Category | DBT & GSBTM Supported One Day National Seminar on "Widening Horizons of Microbiology" | 28 Feb 15 | M. & N. Virani College (Autonomous), Rajkot National |
| 31 | Subject Expert for UG Interview | UG Lecturer/Assistant Prof. | 29 March 15 | Ms. S.V. Patel (Gardi) B.Ed. College Shri Saraswati Education & Charitable Nyara Trust Rajkot |
| 32 | Subject Expert for UG Interview | Interview of Assistant Prof. in Microbiology | 5 April 15 | Sarvoday College of Science and Technology, Rajkot |
| 33 | Resource person 'Bioremediation of Organic Pollutants for the Protection of Climate' | Dept of Law Saurashtra Uni and AIWC Rajkot Chapter | 2 Aug 2015 | Dept of Law Saurashtra Uni and AIWC Rajkot Chapter |
| 34 | Key note speaker 'Scope in Microbiology' | Invited at State level Conf | 27 Jan 2016 | 'Recent Advances in Microbiology' H N Shukla College Rajkot |
| 35 | Judge in Poster and Oral session | National Conference | 14 Feb 16 | GUJCOST Organized 9 th National level Sc Sym 2016 on Recent Trends in Science and Technology, Christ College, Rajkot |
| 36 | Resource person in Null Hypothesis' and 'Use of Graphics' | PhD Course work | 12 March 16 | Dept of Biosciences, Saurashtra Uni Rajkot |
| 37 | Resource person 'Nucleic acid forms-conformation and stability' | GSBTM Workshop | 28 April 2016 | GSBTM Second Crash Workshop for T.Y Students at M. N. Virani Sc College, Rajkot |
| 38 | Resource person in FDP 'Self Awareness and Goals in Higher Education' | FDP (11 to 28 Aug 2016) at MVM Sc & HSC College | 13 Aug 2016 | MVM Sc & HSC College,rajkot |
| 39 | Invited talk on 'Self Awareness' | FDP for staff of Sarvodaya College, Rajkot | 12 Sept 2016 | Sarvoday College, Rajkot |

| | | | | |
|----|---|---|----------------|---|
| 40 | Judge in Poster session 'Science Aavishkar' | National Symposium Atmiya Scitech Utsav 2017 | 10 Feb 2017 | M.& N. Virani Science College, Rajkot |
| 41 | Judge in Poster Session PG Micro | Intl Conf at Christ College | 26-27 Feb 2017 | International Conf at Christ College, Rajkot |
| 42 | Resource Person in GSBTM Crash Workshop 'DNA Repair & Recombination' | GSBTM Crash Workshop | 6 April 2017 | GSBTM Crash Workshop M. & .N. Virani College (Autonomous), Rajkot |
| 43 | GSBTM workshop | Resource person | 3 Dec 2017 | M.& N. Virani Sc. College, Rajkot |
| 44 | Judge in Oral Presentation | 10th National Level Conference | 11 Feb 2018 | Christ College, Rajkot |
| 45 | Subject expert in interview at HJD Science College Kera Kutch | Interview at HJD Sc College Kera | 2 Nov 2018 | HJD Sc College Kera Kutch |
| 46 | Resource person GSBTM Workshop: 1.'Environmental Awareness among students' 2. Enzymes | GSBTM Workshop at Tolani College Adipur Kutch | 3 Jan 2019 | Tolani College Adipur Kutch |
| 47 | PhD Entrance Viva Examiner at Bioscience Dept Hemchandrachayra Uni, Patan | PhD Entrance Viva | 24 March 2019 | Hemchandrachayra North Gujarat Uni, Patan |

D.(a) Teaching Experience :

| Course taught | Name of the University/College/Institution | Duration (As on June-2022) |
|---------------|---|----------------------------|
| U.G. | MVM Sc & HSC College, Rajkot | 36 yrs |
| P.G. | Bioscience Dept , Biochemistry Dept , Saurashtra University | 18 yrs |
| M. Phil. | | |
| Any other | Visiting lecture at various places like V V P Engineering College, Virani Science College, Sarvodaya College, Arpit College etc | --- |

D.(b) Total Teaching Experience :

(i) Under-graduate : 36 yrs (ii) Post graduate : 18yrs

E. Innovations / Contributions in Teaching :

(Give list/lists separately for the following if required)

- (a) Design of Curriculum : **Actively participating in B Sc Microbiology new Syllabus formation as a Member of Board of studies.**
- (b) Teaching Methods : **Question –Answer method, Seminar, Lecture, Group Discussion, Demonstration, Seminar, Visit/Field Work, Workshop, Use of Multi Media, Use of Internet**
- (c) Laboratory experiments: **Explaining Practicals, teaching and demonstration, guiding Research project as per syllabus**
- (d) Evaluation Methods : **Unit wise Class Test, Internal Test, Assignment, Surprise Test, Viva,**
- (e) **Preparation of resource material including book, reading materials, Laboratory manual etc.: Books and Reading material prepared**
- (f) Remedial Teaching / Student : **Yes, Revision of 11th and 12th in the beginning of Semester to make them confident with fundamentals. Helping all students for better vocabulary and cultivating their descriptive power**
- (g) Counselling (academic): **Yes, Guidance for correct writing, understanding and Post BSc scope in the field and motivating them to handle difficulties during practical work and in their career. Maintaining Mentor Register regularly, Guiding the weak, slow learner students to get good Results and also for academic and co curricular**
- Any other: **Supporting students with inculcation of values in life**

F. Extension Work/ Community Services :

- 1 Please give a short account of your contribution to :
 - i. **Community work such as values of National Integration, secularism, democracy, socialism, humanism, Peace, Scientific temper, flood or drought relief, small family norms etc.: Founder member of Nishtha Trust, Rajkot , an NGO executing such social work since year 2000**
 - ii. **National Mission : Nurturing youth with patriotism and how to become responsible citizen of India.**
- 2 Position held/Leadership role played in organizations linked with Extension Work & National Service Scheme (NSS) or NCC or any other similar activity : **Honorary secretary of Nishtha Trust, Rajkot**

G. Participation in Corporate Life:

Please give a short account of your contribution to :

- i. College/ University/Institution :
 1. **Paper setting at UG and PG level in Microbiology**
 2. **Subject expert in Formation of Syllabus**
 3. **Serving as external examiner and paper setter at UG and PG courses in Saurashtra University,**
Atmiya Autonomous, R. K. University, Rajkot, Hemchandrcharya North Gujarat University, Patan
 4. **Member of Sau. University Microbiology Board, Member of A-47 Committee.**
 5. **Members of Various committees of college like IQAC Steering Committee, Research Committee, CCDC etc**
 - ii. **Co-curricular Activities : Dancing, Folk dance and alternative healing- Pranic healing and spiritual activity associate at Shri Ramkrishna mission, Rajkot**
 - iii. **Enrichment of Campus Life (Hostels, Sports, Games, Cultural Activities) :**
 - iv. **Students Welfare & Discipline:**
 1. **Counselling students for scope in career**
 2. **Students are guided to take present poster / oral paper presentations in various**

academic events.

v. Membership/Participation in Bodies/Committees on Education and National Development :

- **Life member Association of Microbiologists of India (AMI) 2739-1995**
- **Life member Biotech Research Society of India (BRSI)**
- **Annual member American Society of Microbiologists (ASM) 2004, '10, '11,'13**
- **Member of Board of Studies in Biochemistry, Saurashtra University, Rajkot 2007-08-09**
- **Member of Board of Studies in Microbiology, Saurashtra University, Rajkot 2009-till date**
- **Life member of Indian Women Scientists' Association (IWSA) Feb 2009**
- **FISCA – F M -434 Life member Fellow Award from International Science Congress Association -From November 2014**
- **Life Member Microbiology Society of India, Osmanabad since Dec 2014**
- **Joint Secretary –Akhil Hind Mahila Parishad,Rajkot since 2012**

vi. Professional Organization of Teacher :

Member of Adhyapak mandal

H. (a) Membership of Professional Bodies, Societies etc.

- **Life member Association of Microbiologists of India (AMI) 2739-1995**
- **Life member Biotech Research Society of India (BRSI)**
- **Annual member American Society of Microbiologists (ASM) 2004, '10, '11,'13**
- **Member of Board of Studies in Biochemistry, Saurashtra University, Rajkot 2007-08-09**
- **Member of Board of Studies in Microbiology, Saurashtra University, Rajkot 2009-till date**
- **Life member of Indian Women Scientists' Association (IWSA) Feb 2009**
- **FISCA – F M -434 Life member Fellow Award from International Science Congress Association -From November 2014**
- **Life Member Microbiology Society of India, Osmanabad since Dec 2014**

(b) Editorship of Journals : -----

I.(a) State brief assessment of your performance indicating :

(b) Difficulties faced: **Students are facing problems due to language issues and less exposure to laboratory and work culture, thus it is sometime difficult to train them.**

(c) Suggestions for improvement :

1. **In initial stage after admission there should be conduct of language improvement course and over all remedial (revision of fundamentals)**
2. **Students should be motivated to read and write over view of previously studied concepts and scientific aspects**
3. **Regularly students can be given task to write essay etc so that descriptive writing can be learnt by them properly.**

J. Step taken by you for the evaluation of the course/ programme taught :
As a member of board of studies after studying and discussing syllabus of other universities and as per UGC guidelines, the syllabus at regular interval was updated.

K. Any other Information :

Annexure-I

| Sr. No. | Title of the Paper | Journal/ Book / Chapter in books | Date/ Volume/ Pg. No. | Year of Publication | National/ International | ISBN/ ISSN No. |
|--|--|--|--|------------------------|----------------------------|--|
| Books | | | | | | |
| 1 | Chapter 22, 'Bioremediation' | Advances in Fermentation Technology, A Pandey, C Larroche, CR Soccol & CG Dussap (eds), Asiatech Publishers Inc, New Delhi) | Pg no.578-606. | 2007 | International | ISBN: 81-87680-28- 0 |
| 2 | Part-I, 'Biobeneficiation' | Concise Encyclopedia of Bioresource Technology, Pandey. A (ed), Haworth Press, Inc, USA, | Pg.no. 19 -22 | 2003 | International | ISBN:1-56022-980-2 |
| 3 | - | Saurashtra University Publication: 'Bioremediation of Persistent Organic Pollutant' | Total pgs.116 | 2009 | --- | --- |
| 4 | - | Publishers 'Applied Microbiology 501' | Total pgs.150 | 2016 | --- | 978-93-5236-009-3 |
| 5 | - | "Matrutwa :Ek Divya Anubhooti" | Total pgs.190 | 2011 | - | ISBN 978-81-7790- 580-9 |
| International Publications (Total 20) | | | | | | |
| 1998 to 2011 | | | | | | |
| 1 | 'Screening of thermoacidophilic autotrophic bacteria for covellite solubilization' | Applied Biochemistry and Biotechnology, | 102-103(1-3), 359-366, | 2002 | International | ISSN:0273-2289 (print version) ISSN:1559- 0291(electronic version) |
| 2 | Bioremediation of toxic heavy metals using acidothermophilic autotrophes' | Bioresource Technology | 97, pp. 1237- 1242. | 2006 | International | ISSN:0960-8524 |
| 3 | 'Treatment of beet sugar wastewater by UAFB bioprocess' | Bioresource Technology | Vol 98, Iss 16,2007, November, pp.3080-3083. | 2007 | International | ISSN:0960-8524 |
| 4 | 'Subtractive Genomics Approach to Identify Putative Drug Targets and Identification of Drug-like Molecules for Beta Subunit of DNA Polymerase III in Streptococcus Species' | Appl Biochem Biotechnol, DOI 10.1007/s12010-012-9620-0. | 0273- 2289(print) 1559- 0291(electronic version) | 2011 | International | 0273- 2289(print) 1559-0291(electronic version) |
| 5 | 'Biodegradation of Poly Aromatic Hydrocarbons' | International Journal of Biotechnology and Biosciences, | Volume 1 (2) April-June Pg no. 137-146, | 2011 | International | ISSN 2231-0304 |
| 6 | InSilico approaches to Decipher Imatinib Resistance in Chronic Myeloid leukemia | International Journal of Biotechnology and Biosciences, | Vol.1, No.3, Pg.293-300 | 2011 | International | 2231-0304 |
| 2012-13 | | | | | | |

| | | | | | | |
|---------|--|--|--|------|---------------|---|
| 7 | 'A Review on 'Therapeutic Targets And Targeted Therapy In Leukemia' | <i>International Journal of Biotechnology and Biosciences,</i> | Vol 2 (3), page No. 123-132. | 2012 | International | 2231-0304 |
| 8 | 'Subtractive Genomics Approach to Identify Putative Drug Targets and Identification of Drug-like Molecules for Beta Subunit of DNA Polymerase III in Streptococcus Species' | <i>Appl Biochem Biotechnol</i> , DOI 10.1007/s12010-012-9620-0. July 2012 | DOI 10.1007/s12010- 012-9620-0. July 2012 | 2012 | International | 0273-2289(print) 1559- 0291(electronic) |
| 2013-14 | | | | | | |
| 9 | "In vitro antagonism between Phytopathogenic fungi <i>sclerotium rolfisii</i> and <i>trichoderma</i> strains" | <i>Intl Journal of Applied Sciences and Biotechnology</i> IJASBT, | Vol-3, Issue-1 Pg. No 16-19 | 2014 | International | 2091-2609 |
| 10 | "Monitoring of antibacterial resistance trends and drug resistance issue at a tertiary care hospital," | <i>Intl Jour of biotechnology and biosciences,</i> | 4 (2): Pg .No 118-122 | 2014 | International | --- |
| 2014-15 | | | | | | |
| 11 | 'Introduction To QTL Mapping In Plants' | <i>Open Access Annals of Plant Sciences</i> | Vol 4, No 04 Pg No. 1072- 1079 | 2015 | International | 2287-688x |
| 12 | 'In vitro antagonism between phytopathogenic fungi <i>Sclerotium rolfisii</i> and <i>Trichoderma</i> species, Plant phytoogy' | <i>International Journal of Applied Sciences and Biotechnology</i> | Vol 3, No 1 Pg No. 16-19 | 2015 | International | 2091-2609 |
| 13 | 'Development of SCAR marker for Specific Detection of <i>Trichoderma harzanium</i> and <i>Trichoderma viridae</i> ' | <i>American Journal of Microbiological Research,</i> http://pubs.sciepub.com/ajmr/3/1/7 © Science and Education Publishing DOI:10.12691/ajmr-3- 1-7 | Vol. 3, No. 1, Pg No.45-49 | 2015 | International | 2328-4129(print) 2328-4137(on line) |
| 14 | 'Current drugs and drug targets in non- small cell lung cancer: limitations and opportunities' | <i>Asian Pacific journal of cancer prevention: APJCP (</i> | Vol 16 Issue (10) Pg No.4147-56. | 2015 | International | 2476762x, 15137368 |
| 2015-16 | | | | | | |
| 15 | 'Production of lytic enzymes by <i>Trichoderma</i> strains during in vitro antagonism with <i>Sclerotium rolfisii</i> , the causal agent of stem rot of groundnut' | <i>African Journal of Microbiology Research</i> | Vol 9 Issue 6 Pg 365-372 | 2015 | International | 1996-0808 |
| 16 | 'Characterization of Chromosomal Translocation Breakpoint Sequences in Solid Tumors: "An In Silico Analysis" | <i>The Open Medical Informatics Journal</i> | Vol 9 Pg 1-8. | 2015 | International | 1874-4311 |
| 17 | 'Genomic Sequence Analysis of Chromosomal Translocation Breakpoints in Leukemia:"A Computational Approach" | <i>Biomedical Data Mining</i> | 3 (107), 2, | 2015 | International | 2090-4924 |
| 2016-17 | | | | | | |

| | | | | | | |
|-------------------------------------|---|--|--|------|---------------|--|
| 18 | 'Significant Role of Segmental Duplications and SIDD Sites in Chromosomal Translocations of Hematological Malignancies: A Multi-parametric Bioinformatics Analysis' | <i>Interdisciplinary Sciences: Computational Life Sciences,</i> | Pg 1-9, | 2016 | International | 1913-2751 Print version 1867-1462 Electronic version |
| 2017-18 | | | | | | |
| 19 | 'Effect of induced potassium deficiency in ground nut and its estimation by flame photometry' | <i>Intl Journ of Chemical Studies</i> | Vol 5, Issue (5) pg no 1757-1763 | 2017 | International | NAAS:5.31 |
| 20 | 'Development of silver/carbon screen – printed electrode for rapid determination of vitamin C from fruit juices, LWT | <i>Food Science and Technology</i> | Vol 88, pg no 152-158 | 2017 | International | NAAS:8.71 UGC no.5648 |
| National Publications (Total 05) | | | | | | |
| 21 | 'Pyrrhoite solubilization by multi heavy metal tolerant Thermophiles' | <i>Journal of Scientific and Industrial Research,</i> | 57(10-11), Pg no 828-832, | 1998 | National | ISSN:0975-1084(online) ISSN:0022-4456 (print) |
| 22 | 'Histopathological Study of Nodular Sclerosis variety of Hodgkin's disease Using Immunohistochemistry' | <i>The Indian Journal of Pathology and Microbiology,</i> | Volume 42, No.2, April 1999, Pg.255. | 1999 | National | ISSN:0377-4929 |
| 23 | 'Role of acidothermophilic autotrophs in bioleaching of mineral sulfide ores' | <i>Indian Journal of Biotechnology,</i> | 2(2), Pg no 451-464 | 2003 | National | ISSN:0975-0967 (online) ISSN:0972-5849 (print) |
| 24 | 'In silico identification of putative drug targets in <i>Klebsiella pneumonia</i> MGH78578.' | <i>Indian Journal of Biotechnology</i> | Vol 10, October 2011, Pg no 432-439. | 2011 | National | 0975-0967(online) 0972-5849(electronic version) |
| 25 | 'An Environmental Friendly Concept: Bioremediation' | Contemporary Development in Science, Proceedings of National Seminar (U.G.C. Sponsored on Scientific Wealth of Physics, SWP, | Pg no.137-138 | 2012 | National | ISBN 978-93-5067-857-2 |

Annexure-II

| Sr No | Name of the students | Registration number and Date | Title | Submitted /Ongoing |
|-------|----------------------|------------------------------|---|--------------------|
| 1 | John George | Reg no.3695, Dt 31-7-07 | Novel Drug Target Identification and Rational Drugs Designing for Some Selected Human Pathogens," Saurashtra Uni, Rajkot | Completed |
| 2 | Hina Parmar | Reg no 3696, Dt.31-7-07 | "Studies of Molecular Markers in Selected <i>Trichoderma</i> species and their Interaction with <i>Sclerotium rolfsii</i> " , Saurashtra Uni, Rajkot. | Completed |
| 3 | Aditi Mundra | Reg no 4097, Dt 28-2-09 | "In-Silico Analysis of Cancer and Cancer Drug targets", Saurashtra Uni, Rajkot. | Completed |
| 4 | Dhaval | Reg no556, | "The study for monitoring | Completed |

| | | | | |
|-----------|--------------------------|-----------------------------------|--|------------------|
| | Parmar | Dt 24-1-13 | antimicrobial resistance trends (SMART) and infection control measures to reduce multi drug resistant organisms”, Saurashtra Uni, Rajkot. | |
| 5 | Vikram Shetty | Reg no558, Dt 24-1-13 | “Coral Associated Microbial Diversity and their Antimicrobial Activity study from Gujarat Coast.”, Saurashtra Uni, Rajkot. | Ongoing |
| 6 | Jaimin Jadav | Reg no571 , Dt 16-1-13 | “Development of nanobiosensor for early detection of potassium(K⁺) deficiency in groundnut(Arachis hypogea L)”, Saurashtra Uni, Rajkot. | Completed |
| 7 | Anand Buch | Reg. no557, Dt. 24-1-13 | The Study on prevalence of hospital acquired pneumonia in tertiary care hospitals, their antimicrobial patterns and preventive measures.”, Saurashtra Uni, Rajkot. | Completed |
| 8 | Jalpa Maghodiya | Reg No 18084 Dt 1-1-2018 | “Development of cellulose based and green silver nano particles embedded biodegradable plastic film derived from agricultural waste for utilization in food pakkaaging” | Completed |
| 9 | Juhi Sheth | Reg no 21217 Dt 01/12/2020 | “Developing methods and means to reduce, process and reuse waste resources at various levels of its generation with special attention to green waste resources using Nisargruna concept in local community of Rajkot District of Saurashtra Region, Gujarat, INDIA” | Ongoing |
| 10 | Jaynesh Ambechada | Reg no 21216 Dt 01/12/2020 | “Microbial conversion of groundnut oil cake waste into value added products.” | Ongoing |