

Curriculum Vitae



Name Dr. Prateek Shilpkar

Date of Birth 09-03-1975

Address (Residential) Biogas Research and Extension Centre, Panchayati Raj Training Centre Campus, At & Post- Sadra, District- Gandhinagar, Gujarat- 382 320

Current Position Associate Professor

Email prateek@gujaratvidyapith.org

Academic Qualifications

Exam Passed	Board/University	Subjects	Year
Ph.D. (Agri.)	Maharana Pratap University of Agriculture and Technology, Udaipur (Rajasthan)	Soil Science	2002
M.Sc. (Agri.) Hons.	Rajasthan Agricultural University, Bikaner (Rajasthan)	Soil Science	1998
B.Sc. (Agri.) Hons.	Rajasthan Agricultural University, Bikaner (Rajasthan)	Agriculture	1996

Contribution to Teaching

Courses Taught	Duration
Microbial Diversity	MSc. (Microbiology) Semester-1
Enzymology	MSc. (Microbiology) Semester-2
Microbial Technology	MSc. (Microbiology) Semester-3
Biostatistics and Computer Applications	MSc. (Microbiology) Semester-4
Statistical Techniques and Computer Applications	MSc. (Environmental Sciences & Technology) Semester-1
Industrial Pollution and Control Technology	MSc. (Environmental Sciences & Technology) Semester-1

	Technology) Semester-2
Sustainable Development	MSc. (Environmental Sciences & Technology) Semester-4
Environmental Management	MSc. (Environmental Sciences & Technology) Semester-4
Ph.D. (Microbiology) (Guide)	Since 2011
M.Phil. (Microbiology) (Guide)	Since 2007
PG (M.Sc.- Microbiology) (Teaching and Guide)	Since 2002
M.Sc. (Environmental Sciences & Technology) (Teaching and Guide)	Since July 2017
UG (B.Sc.)- Bioinformatics (Teaching)	2006-07, 2007-08

Area of Specialization

Waste management through Anaerobic (Biogas Technology) and Aerobic techniques (Composting, vermicomposting, vermiwash etc.)

Organic farming
Soil Microbiology
Soil and Plant Nutrition
Pesticides degradation
Biofuel production

Academic Programme and Courses Evolved

- Contributed in designing the syllabus of papers taught by me.

Involvement in Institute Development

- Actively involved in Departmental activities like National Social Services, *Pad yatra*, *Abhimukhta shibir*, Udyog, Entrance test etc.
- Member of University Startup Council Samiti under SSIP (Student Startup and Innovation Policy) of Gujarat Vidyapith since 11-1-2019

Research Guidance

PhD Students

S. No.	Name of student	Title of Research Work	Year in which PhD Awarded
1	Komal P. Acharya	Isolation, Identification and Optimization of Monocrotophos Pesticide Degrading Bacterial Strains	2017
2	Kinjal P. Prajapati	Bacterial fermentation of <i>Madhuca indica</i> cake for production of biodiesel.	2017
3	Amitkumar J. Shah	Biodegradation of flower waste	Continue
4	Surendersingh Narendrasingh Gohil	Removal of Pathogens from Human Excreta through Anaerobic Digestion, Filtration and Aerobic Digestion	Continue
5	Amit H. Prajapati	Microbial Composting of Maize Agro Waste	Continue
6	Bijal Chauhan	Degradation studies of <i>Calotropis</i> sp. and its Effect on Soil Health and Crop Yield	Continue
7	Kartikkumar Rameshbhai Andharia	Microbial Production of Biodegradable Polymer from Agricultural Residue	Continue
8	Preetiben Kalpeshbhai Shukla	Bacterial Degradation of Fipronil	Continue

M.Phil. Students

S. No.	Name of student	Title of Research Work	Year in which MPhil Awarded
1	Gopalkumar G. Raol	Effect of biodynamic preparations on soil and plant properties of green-gram (<i>Vigna radiata</i>) and residual wheat (<i>Triticum aestivum</i>) crop.	2007
2	Archana D. Tripathi	Effect of <i>Jatropha curcas</i> plantation on soil quality of wasteland.	2008
3	Kinjal R. Modi	Effect of cow and buffalo dung, their ratio with wheat straw and collection time on quality of vermiwash and vermicompost.	2008
4	Vidisha V. Patel	Effect of different plant wastes on quality of vermiwash and vermicompost.	2008
5	Mallika D. Parmar	Effect of vermiwash (obtained from <i>Azadirachta indica</i> leaves and <i>Pennisetum typhoideum</i> husk) application on soil as well as growth and yield of <i>Arachis hypogaea</i> .	2009
6	Jigisha K. Patel	Isolation, identification and optimization of cellulase producers and their role in deoiled neem (<i>Azadirachta indica</i>) cake degradation, and biogas and ethanol production.	2010
7	Jyotsna B. Goswami	Isolation, Identification and Optimization of Cellulase Producers for <i>Jatropha</i> Seed Cake Degradation.	2011

M.Sc. students

S.No.	Year	Name of Student	Title of Thesis
1	2003	Alpesh G. Patel	“Comparative performance of fresh biogas slurry, biofertilizers and chemical fertilizers alone or in various combinations on plant and soil properties using Okra (<i>Abelmoschus esculentus</i> L.) as a test crop”
2	2003	Rajendra Prajapati	“Studies on comparative performance of different organic fertilizers versus chemical fertilizers and their various combinations on plant and soil properties using cowpea (<i>Vigna sinensis</i>) var. <i>Pusa falgun</i> as a test crop”
3	2004	Avni M. Shah	“Evaluation of partially substituted cattle dung with <i>Bhakhari</i> as feed material for biogas production”
4	2004	Tejal B. Patel	“Evaluation of partially substituted cattle dung with potato as feed material for biogas production”
5	2004	Mital R. Trivedi	“Evaluation of partially substituted cattle dung with Rice as feed material for biogas production”
6	2005	Dinesh Singh Bisht	“Effect of Different Solids-to-water ratios (1:1 and 1:1.66) and partial substitution of cattle dung with <i>Bhakhari</i> on biogas production”
7	2005	Darshna K. Patel	“Effect of Different Solids-to-water ratios (1:1 and 1:1.28) and partial substitution of cattle dung with <i>Bhakhari</i> on biogas production”
8	2006	Jaykumar M. Hinsu	“Biomethanation of <i>Jatropha curcas</i> leaves”
9	2006	Gopalkumar G. Raol	“Biogas generation from <i>Jatropha</i> (<i>Jatropha curcas</i>) seed cake waste along with buffalo dung”
10	2006	Shreyas J. kulkarni	“Biomethanation of <i>Carica papaya</i> leaves along with buffalo dung”
11	2006	Hetal H. Patel	“Co-digestion of banana (<i>Musa paradisiaca</i>) leaves and buffalo dung for biogas production”
12	2007	Nital C. Chaudhari	“Co-digestion of buffalo dung and <i>Syzygium cumini</i> leaves for biogas production”
13	2007	Bhumika S. Joshi	“Biomethanation of <i>Psidium guajava</i> leaves along with buffalo dung”
14	2007	Shital M. Patel	“Chemical diversity in rhizospheric soil of different trees”
15	2007	Kinjal R. Modi	“Microbial diversity in rhizospheric soil of different trees”
16	2007	Archana D. Tripathi	“Microbial and Chemical Study of Soil: Effect of Organic Fertilizers”

17	2008	Lopa B. Parmar	“Biomethanation of buffalo dung with <i>Arachis hypogaea</i> shell”
18	2008	Smitesh R. Patel	“Partial substitution of buffalo dung with <i>Brassica juncea</i> waste for biomethanation”
19	2008	Manjula R. Prajapati	“Effect of diluted biogas slurry addition on soil and plant properties of green gram (<i>Vigna radiata</i>)”
20	2008	Sonal B. Patal	“Co-digestion of buffalo dung with Almond (<i>Prunus dulcis</i>) leaves waste for biomethanation”
21	2008	Khushali A. Shah	“Effect of partial substitution of buffalo dung with <i>Morus alba</i> leaves on biogas production”
22	2008	Mallika D. Parmar	“Effect of diluted biogas slurry addition on microbial count and enzyme activities in soil under green gram (<i>Vigna radiata</i>)”
23	2008	Kaminee M. Sathwara	“Co-digestion of lemon (<i>Citrus aurantifolia</i>) leaves with buffalo dung for biomethanation”
24	2008	Nilesh V. Nasit	“Co-digestion of buffalo dung with chiku (<i>Achras zapota</i>) leaves waste for biomethanation”
25	2009	Deepika R. Parmar	“Anaerobic digestion of Buffalo dung with Fennel (<i>Foeniculum vulgare</i>) stem waste”
26	2009	Sonali P. Kapadiya	“Anaerobic digestion of Tobacco (<i>Nicotiana tabacum</i>) stem waste with and without buffalo dung for biogas production”
27	2009	Vipul R. Patel	“Biomethanation of cotton (<i>Gossypium herbaceum</i>) stem waste with buffalo dung”
28	2009	Margi U. Patel	“Anaerobic digestion of <i>Ricinus communis</i> waste”
29	2009	Neha H. Pandya	“Biomethanation and detoxification study of Neem (<i>Azadirachta indica</i>) leaves”
30	2010	Amit P. Shrimali	“Biomethanation from Coriander (<i>Coriandrum sativum</i>) stem waste alone and with Buffalo Dung ”
31	2010	Juee B. Shah	“Vermicomposting of Plant Leaves”
32	2010	Dhruvi R. Raval	“Biomethanation of <i>Ipomoea carnea</i> Along with Buffalo Dung”
33	2011	Jaydip H. Shah	Anaerobic digestion of gokharu (<i>Tribulus terrestris</i>) plant residues
34	2011	Amit B. Lunagariya	Study on recycling of Urad (<i>Vigna mungo</i>) stem through <i>Eisenia foetida</i>
35	2011	Bhoomi R. Ghetiya	Biomethanation of sharpunkha (<i>Tephrosia purpurea</i>) plant residue
36	2011	Shamim Y. Dhuldhoya	A study on bacterial biosynthesis of amylase by submerged fermentation
37	2011	Kinjal P. Prajapati	Bioconversion of agricultural waste (<i>Solanum melongena</i>) through vermicomposting

38	2011	Amit N. Isadara	Isolation, identification and optimization of amylase producing thermophilic bacteria from hot spring of Dholera, Gujarat
39	2011	Komal P. Acharya	Bacterial production of xylanase using <i>Nicotiana tabaccum</i> leaf dust
40	2011	Vikram C. Solanki	Vermicomposting of mustard (<i>Brassica juncea</i>) cake
41	2012	Subhash G. Ghodadara	Production of cellulase using <i>Ricinus communis</i> seed coat waste by <i>Aspergillus niger</i>
42	2012	Arti R. Thummar	Cellulase production from <i>Medicago sativa</i> L. plant through solid-state fermentation
43	2012	Jinal I. Vora	A comparative analysis of soil properties under organic and inorganic <i>Triticum aestivum</i> farm soil
44	2012	Payal R. Patel	Microbial, enzymatic and chemical properties of soil under organic and inorganic <i>Allium cepa</i> farm
45	2012	Najrana I. Khanji	Organic and inorganic farming : Impact on soil properties under <i>Coriandrum sativum</i> crop
46	2012	Kinnari A. Prajapati	Production and properties of alkaline protease produced by <i>Staphylococcus sciuri</i> using <i>Sorghum vulgare</i> as substrate
47	2012	Misha V. Patel	Optimization of cultivation conditions for alkaline protease production by <i>Bacillus thuringiensis</i>
48	2013	Sunil I. Makwana	Microbial Anaerobic Digestion of <i>Cicer arietinum</i> for Biogas Production
49	2013	Nagji R. Choudhary	Study of <i>Cyamopsis tetragonoloba</i> stem for biogas production
50	2013	Prachi N. Soni	Production of Protease from Wheat Flour Mill Waste by <i>Bacillus altitudinis</i>
51	2013	Hetal M. Patel	Production of Neutral Protease Produced by <i>Bacillus thurengensis</i> Using Banana Peel as Substrate
52	2014	Kinjal M. Parekh	Biogas production from <i>Lantana camara</i>
53	2014	Taruna R. Prajapati	Anaerobic digestion of buffalo dung and <i>Duranta plumieri</i> leaves
54	2015	Riddhi V. Gajipara	Study on Biogas Production from <i>Polyalthia longifolia</i> leaves
55	2016	Nilam P. Thadhani	Anaerobic bioegradation of <i>Bambusa vulgaris</i> leaves
56	2017	Bhagavati K. Chovatiya	Microbial Pectinase Production from Vegetable Waste
57	2017	Monika H. Radhanpura	Single Cell Oil Production from Fruit Waste by Oleaginous Yeast
58	2017	Krupali L. Jivani	Composting of Coconut (<i>Cocos nucifera</i>) coir fibre

59	2017	Krishnaben Bhanderi	D.	Plant Growth Promoting Activity of Salt Tolerant Bacteria
60	2017	Siteshvari Khachar	V.	Bacterial Biosurfactant Production
61	2017	Mittal Vitthalapara	C.	Bacterial Fermentation of Groundnut Cake for Production of Biodiesel
62	2017	Pooja S. Patel		Single Cell Oil Production from Banana Peels by Oleaginous Yeast
63	2017	Bhagvati Kubavat		Bacterial Fermentation of Castor Cake for Production of Biodiesel
MSc. Co-Guided				
64	2017	Hitesh Suthar		Appraisal for Antimicrobial activity and Phytochemical Screening of Selected Endophytic Microbial Strains from Mangrove Origin
65	2017	Akshay Patel		Isolation of endophytic microbial strains from mangrove environment: special emphasis on screening for antioxidant activity and enzyme production
MSc Guided				
66	2018	Jalpa M. Raval		Effect of Fertilizer and Pesticides on Soil and Plant (<i>Trigonella corniculata</i> L.) Properties
67	2018	Shruti A. Patel		Isolation and Identification of Exopolysaccharide Producing Microorganism
68	2018	Nidhi P. Uchadadiya		Microbial Production of Biosurfactant and Its Identification
69	2018	Deepkumar R. Patel		Bacterial Production of Indole Acetic Acid
70	2018	Ramesh Chaniyara	A.	Efficiency of <i>Piper betel</i> extract for inhibition of Alpha amylase
71	2018	Dipti V. Gadhiya		Single Cell Protein Production from <i>Solanum tuberosum</i> peel
72	2018	Prem J. Modi		Alpha amylase inhibitory activity of <i>Cinnamomum verum</i>
73	2018	Bhavita L. Pandya		Co-digestion of Cow dung and <i>Cyanthillium cinereum</i> weed for Biogas production
74	2018	Vasudha D. Jadav		Production of biogas by anaerobic decomposition of <i>Calotropis procera</i> flower waste
75	2018	Shweta J. Barot		Biodegradation of <i>Parthenium hysterophorus</i> weed by anaerobic digestion
76	2018	Kinjal D. Kavathiya		Screening, identification and optimization of Gibberellic Acid producing Rhizobacteria from Castor (<i>Ricinus communis</i>) soil
77	2018	Urvee M. Goswami		Single Cell Protein Production from <i>Beta vulgaris</i> peel
78	2018	Magan C. Damor		Isolation of vinegar producing bacteria from different flowers

MSc. (Environmental Sciences & Technology)			
79	2019	Priyanka J. Bhanderi	Microbial Degradation of <i>Calotropis</i> sp. Leaves
MSc. (Microbiology)			
80	2019	Divya R. Prajapati	Biomethanation of <i>Trapa natans</i> shell
81	2019	Hitesh P. Mali	Biogas production from <i>Bougainvillea spectabilis</i> flowers
82	2019	Jaimin S. Modi	Composting of <i>Senna siamea</i> leaves
83	2019	Khushbu J. Dholariya	Changes in chemical and microbial properties of <i>Cajanus cajan</i> plant waste during composting
84	2019	Kishankumar R. Meniya	Isolation and Optimization of Microorganism Producing Single Cell Protein from <i>Beta vulgaris</i>
85	2019	Milind J. Gohil	Enzyme activity of endophytic isolates from <i>Brassica juncea</i>
86	2019	Moksha R. Tarapara	Recycling of <i>Pisum sativum</i> pods through composting
87	2019	Monaliben R. Sangdot	Plant growth related activities of endophytic microbes
88	2019	Nimesh H. Gadhiya	<i>In-vitro</i> study of cellulose degrading microorganism
89	2019	Rinkal. V. Patel	Effect of NiCl ₂ Supplementation on Biomethanation of Human Excreta
90	2019	Sapana P. Sarsava	Effect of <i>Candida utilis</i> supplementation on composting of sugarcane bagasse
91	2019	Smit H. Vadher	Single Cell Protein Production from <i>Manilkara zapota</i>
92	2019	Unnati B. Yagnik	Alternate use of <i>Cassia fistula</i> fruits for composting
93	2019	Vina G. Dangar	Study on fertilizer quality characteristics of compost prepared from <i>Prosopis juliflora</i> fruits (Algaroba)

Research Papers Published- 60

Conferences Attended – 03

1. International Conferences- 01

2. National Conferences- 02

Workshop/training course attended- 18

Projects on-going (As PI and Co-PI)

Sr. No	Title of Project	Capacity	Duration	Funding Agency	Amount (Rs. In Lakh)
1	To find out the reason behind better-health of organically farmed soil compared to Inorganic one	Principal Investigat or	One year	Department of Biotechnology (DBT), Ministry of Science & Technology, New Delhi, under Foldscope scheme	8.0
2	Removal of pathogens and mitigation of unhygienic condition of human excreta through anaerobic digestion	Co-Principal Investigat or	Three years	GSBTM (Gujarat State Biotechnology Mission), Department of Science & Technology, Government of Gujarat, Gandhinagar, Gujarat	6.645

Projects Completed (As PI and Co-PI)

No	Title of Project	Duration	Funding Agency
1	Study on Quality of Water and Soil of kalol and Gandhinagar Taluka, Gujarat	April to September, 2006	Gujarat Vidyapith, Ahmedabad, Gujarat, India.
2	Study on Quality of Water and Soil of Dehgam Taluka, Gujarat	Oct. 2006 to March 2007	Gujarat Vidyapith, Ahmedabad, Gujarat, India.
3	Solid waste management	Sep. 2006 to Feb. 2007	VIKSAT, Nehru foundation for Development, Ahmedabad, Gujarat, India.
4	Construction of Biogas Demonstration Units	June- 2011 to March 2012	Gujarat Argo Industries Corporation, Ahmedabad, Gujarat, India.
5	Purification and Compression of Biogas	June- 2011 to March 2012	Gujarat Argo Industries Corporation, Ahmedabad, Gujarat, India.

Orientation Course Attended- 01

Refresher Course Attended- 03

Seminars / Workshops / Training Camps Organized

S. No.	Standard	Title	Duration	Place
1	Regional	Third Masons Training on Biogas Plant Construction	February, 23 to March, 3, 2008	Village-Babara, Taluka- Dahegam, District- Gandhinagar
2	Regional	Second Masons Training on Biogas Plant Construction	May 22 to June, 02, 2007	Village- Chandrala, Gandhinagar, District- Gujarat
3	Regional	Workshop on “Biodynamic farming”	Feb. 14 to 16, 2006	Village- Sadra, District- Gandhinagar, Gujarat
4	Regional	First Masons Training on Biogas Plant Construction	Feb. 25 to March 11, 2005	Village- Jhakhora, District- Gandhinagar, Gujarat
5	State	Assembly & Use of Foldscope	9 th September, 2018	Department of Microbiology, Sadara
6	Regional	Foldscope ની રચના અને તેની ઉપયોગીતા	17 th January, 2019	નરહરિ પરીખ આશ્રમશાળા, અમલવાડી, જીલ્લો- સુરત
7	Regional	One day workshop on Foldscope	25 th Fenruary 2019	Department of Herbal Science & Technology, Anandaram Dhekial Phookan College, Nagaon – 782002, Assam,

8	National	Assembly & Application of Foldscope”	5 th and 6 th March, 2019	Department of Microbiology, Sadara
9	Regional	ખેડૂતો: Foldscope દ્વારા જમીનના નમૂનાનું અવલોકન	24/3/2019	મૈત્રી આશ્રમ, Unnamed Road, Janakpur, Assam-787 051
10	Regional	સ્કૂલના વિદ્યાર્થીઓ તથા અધ્યાપકોને Foldscopeનું ઉપયોગ કરતા શીખવાડવું	25/3/2019	મૈત્રી આશ્રમ, Unnamed Road, Janakpur, Assam-787 051
11	Regional	Twining partner સાથે વર્કશોપ કરવું	26/3/2019	Dr. N. Sundari Devi, PI- DBT Foldscope Project and Asst. Prof., Depat. Of Botany, Kakching Khunou College, Manipur
12	Regional	Medical collegenના વિદ્યાર્થીઓને Foldscopeનું ઉપયોગ કરતા શીખવાડવું	27/3/2019	Shanti Sadhana Ashram, P. O.-Basistha, Guwahati-781 029, Assam
13	Regional	સ્કૂલના વિદ્યાર્થીઓને Foldscopeનું ઉપયોગ કરતા શીખવાડવું	28/3/2019	Shanti Sadhana Ashram, P. O.-Basistha, Guwahati-781 029, Assam
14	Regional	સ્કૂલના અધ્યાપકોને Foldscopeનું ઉપયોગ કરતા શીખવાડવું	29/3/2019	Shanti Sadhana Ashram, P. O.-Basistha, Guwahati-781 029, Assam

Lectures delivered in Refresher Courses

1. Deliver lecture on “Biogas: Best out of waste” in Refresher Course organized by UGC: ASC, Rajkot on 26/11/2010.

Lectures Delivered (National/ Local level Programmes)

1. Frequently Delivered lectures to Talaties on Biogas Technology since 2002.
2. “Chhatralaya Maan Karkasar and Use of Biogas” to students of BEd, Gujarat Vidyapith on May, 05, 2008.
3. “Prarthana ane Bhajan shaa maate” to students of Department of Microbiology in Abhimukta Shibir.

Member of NAAC Committee of Gujarat Vidyapith in 2014.

Membership in Professional and other Bodies

- Life Member of Indian Science Congress, Kolkata.

Examiner ship

1. Regular supervision in Semester/Annual examinations of our Department since 2002.
2. Worked as Moderator and Examiner for External Examination of Gujarat Vidyapith and other Universities also.

Extension Activities

1. Guiding people of nearby villages and others to construct biogas plant.
2. Every year participate in *Gram Jeevan Pad Yatra* organized by Gujarat Vidyapith.

Other Work Experience

1. Relief work done with students of Gujarat Vidyapith (B.Ed. College, Ahmedabad) in Flood affected areas of Bihar for 15 days in 2009.
2. Relief work done with students of Gujarat Vidyapith (Sharirik Shikshan Mahavidyalaya, Sadra) in earthquake affected areas of Lubhu village of Nepal for 15 days in 2015.

Research Papers Published

- Sangavai, C., Bharathi M, **Shilpkar P.** Ganesh and Chellapandi P. 2019. Kinetic modelling of stickland reactions-coupled methanogenesis for a methanogenic culture. *AMB Express*, 9:82-94
- Sangavai Chinnadurai, Bharathi Muruganantham, Acharya K. Pradip, Prajapati P. Kinjal, Parmar B. Himanshu, **Shilpkar P. Ganesh** and Chellapandi Paulchamy. 2019. Evaluation of the biomethanation potential of enriched methanogenic cultures on gelatin. *Bioresources and Bioprocessing*, 6:13-20
- Surendra N. Gohil, **Prateek G. Shilpkar**, Mayur C. Shah, Amitkumar J. Shah and Pradip B. Acharya. 2018. Methane from Human Excreta: Comparative

- Assessment of Batch and Continuous Biomethanation Process. *Journal of Pure & Applied Microbiology*, 12 (4): 2143-2148
- Komal Acharya, **Prateek Shilpkar** and Mayur C Shah. 2018. Degradation of monocrotophos in soil by *Bacillus subtilis* KPA-1 and its effect on soil properties. *Pesticide Research Journal*, 30 (2): 210-218. Komal Acharya, **Prateek Shilpkar** and Mayur C. Shah, Effect of monocrotophos and *Bacillus subtilis* KPA-1 on greengram (*Vigna radiata*). *Current Advances in Agricultural Sciences*, 9(1): 64-69 (2017)
- Komal P. Acharya*, **Prateek Shilpkar** and Mayur C. Shah, Optimization study of esterase production by Monocrotophos degrading bacterium *Bacillus subtilis* KPA-1. *Journal of Pure and Applied Microbiology*, 10 (3) 2016: 2079-2087.
- Pradip Acharya, **Prateek Shilpkar** and Amit Shah, Biogas production from Castor (*Ricinus communis* Linn) seedcake in the presence and absence of Buffalo dung, *Vidyapith*, Oct.-Dec. 2016, Vol. 4: 5-16
- Kinjal Parekh and **Prateek Shilpkar**, Biogas production from *Lantana camara* leaves, *Vidyapith*, Oct.-Dec. 2016, Vol. 4: 32-37
- Mayur C. Shah, Ankit M. Patel and **Prateek Shilpkar**, Ground water quality analysis of Palaj village Gujarat, *Vidyapith*, Oct.-Dec. 2016, Vol. 4: 100-109
- પ્રદીપ આચાર્ય, જ્યોતિ લાંબા, પ્રતીક શિલ્પકાર, શોચાલય નિર્માણ કાર્યમાં આવેલી ઝડપ માટેના અસરકારક મુદ્દા અને શોચાલયના ઉપયોગ સંબંધી અભ્યાસ. અભિદ્રષ્ટિ (2): 83-90, April 2015, ISSN-0971-6629
- Mayur C. Shah. Himanshu K. Patel and **Prateek Shilpkar**, Composting of *Calotropis gigantea* leaves. *Pollution Research*, 34 (2): 363-366, (2015)
- Mayur C. Shah, Devang N. Upadhyay and **Prateek G. Shilpkar**, Composting of *Calotropis gigantea* Leaves using Mix Dung of Buffalo, Cow, Goat and Sheep. *Current World Environment*, Vol. 10(3), 1044-1047 (2015),
- Komal P. Acharya and **Prateek Shilpkar**, Production, partial purification and characterization of xylanase using *Nicotiana tabacum* leaf dust as substrate. *Journal of Environmental Biology*, Vol. 37, 297-303, March 2016
- Vikram C. Solanki and **Prateek Shilpkar**, Vermicomposting of De-oiled cake of *Brassica juncea* by *Eisenia foetida*. *Journal of Pure and Applied Microbiology*, June 2016. Vol. 10 (2): 1293-1302
- Vora Jinal, **Shilpkar Prateek** and Shah Mayur, A comparative analysis of soil properties under organic and inorganic Triticum aestivum (Wheat) farm soil. *Journal of Pure and Applied Microbiology*, June 2016, Vol. 10 (2): 1449-1454
- Kinjal P. Prajapati, **Prateek Shilpkar** and Mayur C. Shah, Suitability of Transesterified Mahua (*Madhuca indica*) Oil as Diesel Fuel, *Journal of Scientific and Industrial Research*, 74, September, 2015: 494-498

- Vikram C. Solanki and **Prateek Shilpkar**, Changes in Activities of Various Enzymes During Vermicomposting, , *Journal of Pure And Applied Microbiology*, Nov 2015. Vol. 9 (Spl. Edn. 2), : 579-582
- Mayur C. Shah, Jaldip C. Kansara and **Prateek G. Shilpkar**, Composting of *Calotropis gigantea* leaves in presence of sheep dung. *Current World Environment*, Vol. 10(1): 281-284, 2015
- Prajapati Kinjal P., **Shilpkar Prateek** and Shah Mayur C., Optimization of fermentation conditions for the extraction of oil from de-oiled cake of *Madhuca indica* by newly isolated *Microbacterium* Sp. KPP-1 Strain. *Research Journal of Chemistry and Environment*, Vol. 19 (5): 32-38, May 2015
- Mayur C. Shah, Vipul R. Patel and **Prateek G. Shilpkar**, Changes in chemical characteristics during composting of *Calotropis gigantea* leaves along with buffalo dung. *Ecology, Environment and Conservation*, 21, Supplement: S255-S258, 2015
- Mayur C Shah, Sumit R. Kansara and **Prateek Shilpkar**, Suitability of goat dung and *Calotropis gigantea* leaves for composting. *International Journal of Chemical Sciences*, 13 (1): 519-524, 2015
- Mayur C. Shah, Hemant P. Patel and **Prateek G. Shilpkar**, Water extract of *Argyrea nervosa* flower: Green neutralization indicator. *Pollution Research*, 34 (1): 171-173, 2015.
- Khanji Najrana, **Shilpkar Prateek** and Shah Mayur, Comparison of soil physico-chemical, microbial and enzymatic properties in organically and inorganically managed soils at pre and post harvest stages of *Coriandrum sativum* crop. *Pollution Research*, 34 (1): 187-190, 2015.
- K.P. Acharya, **P. Shilpkar**, M.C. Shah and P. Chellapandi, Biodegradation of insecticide Monocrotophos by *Bacillus subtilis* KPA-1, isolated from agriculture soils, *Applied Biochemistry and Biotechnology: Part A: Enzyme Engineering and Biotechnology*, Volume 175, Issue 4: 1789-1804, 2015. DOI 10.1007/s12010-014-1401-5
- Kinjal P. Prajapati and **Prateek Shilpkar**, Changes in enzymatic activity and microbial count during vermicomposting of *Solanum melongena* stem. *Journal of Pure and Applied Microbiology*, Volume 9 No. 2 Page No. 1621-1626, 2015

- Misha V. Patel, **Prateek Shilpkar** and Arvind Dungerechia, Optimized alkaline protease production by *Bacillus thuringiensis*. *Journal of Pure and Applied Microbiology*, Volume 9 No. 1 Page No. 791-795, 2015
- Kinnari A. Prajapati, **Prateek Shilpkar** and Arvind Dungerechia, Alkaline protease production from *Sorghum vulgare* by *Staphylococcus sciuri*, *Journal of Pure and Applied Microbiology*, Volume 9 No. 1 Page No. 441-447, 2015
- Subhash Godadara, **Prateek Shilpkar** and Arvind Dungerechia, Optimized production of cellulase by *Aspergillus niger* using *Ricinus communis* seed coat waste. *Journal of Pure and Applied Microbiology*, Volume 9 No. 1 Page No. 623-629, 2015
- Pradip B. Acharya and **Prateek Shilpkar**, *Solanum tuberosam* supplementation for biogas production. *Current World Environment*, Vol. 10(1): 285-287, 2015
- Vikram C. Solanki and **Prateek Shilpkar**, Dynamics of microbial population during vermicomposting of De-oiled *Brassica juncea* cake, *Pollution Research*, 2015, 34 (4): 29-32
- Komal P. Acharya and **Prateek Shilpkar**, Bacterial Production of Xylanase using *Nicotina tabaccum* Leaf Dust as Substrate, *Journal of Pure and Applied Microbiology*, Vol. 8 Special Edition: 491-498, Nov. 2014
- Pradip B. Acharya and **Prateek Shilpkar**, Anaerobic co-digestion of mixed kitchen wastes and buffalo dung. *Current World Environment*, Vol. 9(3): 980-982, 2014
- Pradip B. Acharya and **Prateek Shilpkar**, Anaerobic digestion of cooked rice along with buffalo dung for biogas production. *International Journal of Current Research and Academic Review*, Volume 2 Number 11: 70-73, November-2014
- Pradip B. Acharya and **Prateek Shilpkar**, Effect of *Bhakhri* supplementation on biogas production. *International Journal of Current Research and Academic Review*, Volume 2 Number 11: 66-69, November-2014
- Arti Thummar, **Prateek Shilpkar** and Arvind Dungerechia, Fermentative microbial enzyme production from *Medicago sativa* L. plant stem. *Bioscience Guardian*, Volume- 4(2): 201-212, December 2014.
- Mayur C. Shah, Chirag R. Patel and **Prateek G Shilpkar**, Water extracts of *Hibiscus rosa sinensis* L. flower: Eco-friendly acid-base indicator. *Bioscience Guardian*, Volume- 4(2): 197-200, December 2014.

- Rajendra Prajapati, **Pratik Shilpkar**, Raol BV and Vaidya Ritesh, Studies on the comparative performance of various types of fertilizers and their combinations on the growth of *Vigna sinensis* var. *Pusa falgun* (cow pea). *Bioscience Guardian*, Volume- 4(2): 163-169, December 2014.
- Mayur C. Shah, Gunjan K. Sakhiya and **Prateek G. Shilpkar**, Study to find out suitability of water extract of *Catharanthus roseus* flowers as indicator for acid-base titrations. *Ultra Chemistry*, 10 (3) 141-144, 2014
- Kinjal P. Prajapati, **Prateek Shilpkar**, Mayur C. Shah and Kaushik R. Patel, Fermentative production of alcohol from *Madhuca indica* flower and its cake by *Kluveromyces marxianus*. *Journal of Pure and Applied Microbiology*, Vol. 7 (4): 3243-3246, December 2013,
- D.K. Acharya, R. M. Shukla, P.B. Acharya, **P. Shilpkar** and H.A. Modi, Infrared spectroscopic evaluation of wheat straw compost prepared using lignocellulolytic fungi. *Bioinfolet*, 10 (4C): 1534-1537, 2013
- P. Shilpkar**, M. C. Shah, K. R. Modi and S. M. Patel, Seasonal changes in microbial community structure and nutrients content in rhizospheric soil of *Aegle marmelos* tree. *Annals of Forest Research*, Vol 53 (2): 135-140, 2010
- D. K. Acharya, S. B. Chabhadiya, A. J. Shah, **P. Shilpkar**, P. B. Acharya, H. A. Modi, Enzyme profiling of lignocellulolytic fungi. *International Journal of Biological and Chemical Sciences*, Vol 4(2): 443-449, 2010
- Mayur C. Shah, **Prateek Shilpkar**, Ankita J. Acharya, Kshama H. Balapure, Ekta A. Desai, Dipika N. Patel, Study of ground water quality of Dahegam Taluka, Gujarat, India. *Ecology, Environment and Conservations*, 15(3): 577-584, 2009
- Prateek Shilpkar**, Mayur C. Shah and Kinjal Modi, Assessment of microbial diversity in rhizosphere of *Ficus religiosa* tree at different moisture levels. *Indian Forester*, Vol. 135 (1): 111-116, 2009
- Mayur C. Shah, **Prateek Shilpkar**, Paresh T. Pujara and Amit J. Shah, Extract of *Clitoria ternatea* L. Flowers: Natural universal pH indicator. *International Journal of Bioscience Reporter*, Vol. 6 (2): 375-378, 2008
- Mayur C. Shah, **Prateek Shilpkar**, Pradip Acharya, Urjit Gor and Sumit Kansara, Statistical analysis of groundwater quality characteristics of Kalol Taluka, Gujarat for drinking and irrigation purposes. *Ecology, Environment and Conservation*, Vol. 14 (2-3): 393-397, 2008

- Mayur C. Shah, **Prateek Shilpkar** and Pradip Acharya, Groundwater quality of Gandhinagar taluka, Gujarat, India. *E-Journal of Chemistry*, Vol. 5 (3): 435-446, 2008
- Prateek Shilpkar**, Mayur C. Shah, Gaurav Gandhi and Urja Pandya, Microbial Degradation of *Ficus benghalensis* Tree Leaves. *Asian Journal of Microbiology, Biotechnology and Environmental Sciences*, Vol. 2: 433-437, 2008
- Prateek Shilpkar**, Mayur C. Shah and Pradip Acharya, Utilization of *Euphorbia nivulia* for Biogas Production. *Asian Journal of Chemistry*, Vol. 20 (6): 4287-4290, 2008
- Prateek Shilpkar**, S. C. Bhandari and Mayur C. Shah, Microbial Chelation of Iron. *Ecology, Environment and Conservation*, Vol. 13 (4): 725-730, 2007
- Prateek Shilpkar**, Mayur C. Shah, Pradip Acharya, Gopal Raol, Jay Hinsu, Shreyas Kulkarni and Hetal Patel, Anaerobic Digestion of Agricultural Wastes. *Pollution Research*, Vol. 26 (4): 641-645, 2007.
- Prateek Shilpkar**, Mayur C. Shah, Nimisha Patel and Pradip Acharya, Changes in Non-methanogenic Microbial Load during Anaerobic Digestion of Cow dung alone and with *P. guajava* Leaves. *International Journal of Bioscience Reporter*, Vol. 5 (2): 399-402, 2007
- Prateek Shilpkar**, Mayur C. Shah, Kinjal Modi and Shital Patel, Microbial Communities in Rhizospheric Soil of *Prosopis cineria* : Effect of Season. *International Journal of Bioscience Reporter*, Vol. 5 (2), 415-417, 2007
- Mayur C. Shah, **Prateek Shilpkar** and Avinash patel, Study on Water Quality of Prantiya Pond, Gujarat, India. *Pollution Research*, Vol. 26 (3): 453-456, 2007
- Mayur C. Shah, **Prateek Shilpkar** and Sangita Sharma, Correlation, Regression Study on Physico-Chemical Parameters and water Quality Assessment of Ground water of Mansa Taluka in Gujarat. *Asian Journal of Chemistry*, Vol. 19 (5): 3449-3454, 2007.
- Prateek Shilpkar**, Mayur C. Shah and D. R. Chaudhary, An Alternate Use of *Calotropis gigantean*: Biomethanation. *Current Science*, Vol. 92 (4) Feb., 2007 pp 435-437
- Mayur C. Shah, **Prateek Shilpkar**, Vipul R. Patel, Devang Upadhyay, Himanshu K. Patel and Jaldip C. Kansara, A Comparative Study of water Quality Parameters of Ground Water among the Three Regions of Kalol Taluka, Gujarat. *Current World Environment*, Vol. 1 (2): 153-160, 2006

Mayur C. Shah, **Prateek Shilpkar**, Amit J. Shah, Paresh T. Pujara and Pradip V. Zaloriya, Assessment of drinking water quality of various Railway stations on Ahmedabad to Khedbrahma Train route in Gujarat, India. *Pollution Research*, Vol. 25 (3): 549-552, 2006

Prateek Shilpkar, Mayur C. Shah, Avni Shah, Mital Trivedi and Tejal Patel, Co-digestion of kitchen waste and cattle dung for biogas production. *Pollution Research*, Vol. 25 (3): 625-629, 2006

Mayur C. Shah, **Prateek Shilpkar**, Nirav Parmar, Neha Pandya, Sheetal Panchal and Gopi Patel, A study on comparison of physico-chemical characteristics of ground water among the various regions of Mansa Taluka, Gujarat. *Ecology, Environment and Conservation*, Vol. 12 (3): 431-434, 2006

Prateek Shilpkar and Mittal Trivedi, Effect of partial substitution of cattle dung with rice on biogas production. *International Journal of Bioscience Reporter*, Vol. 2 (2): 250-256, 2004