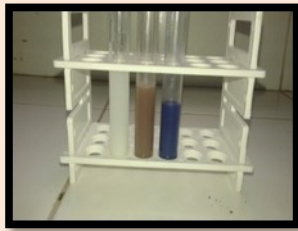
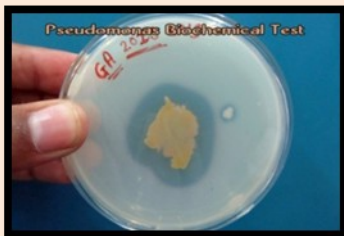
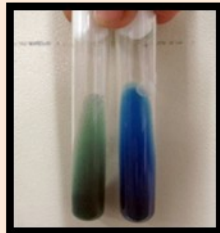


DEPARTMENT OF MICROBIOLOGY

Determination of Quality of Milk



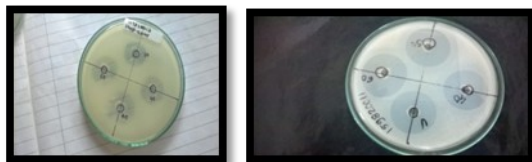
Biochemical tests



Students at work



microbial assays



1. **Name of the Department** MICROBIOLOGY
2. **Year of Establishment** 1992
3. **Names of Programmes/Courses offered---**

Sr no	Courses	Programme
1	UG	-
2	PG	-
3		Ph.D

4. **Names of Interdisciplinary courses and the departments/units involved-**

Interdisciplinary Courses	Departments/Units
UG	Chemistry
UG	Botany
UG	Zoology

5. **Annual/ semester/choice based credit system (programme wise)**

Pattern	Programme Wise
Annual	---
Semester	UG
Choice Based Credit System	PG

6. **Participation of the department in the courses offered by other departments**

Sr No	Participation of the Department	Courses Offered
1	M.Sc Chemistry	Additional credits at the PG level, Viz: Bioinformatics Clinical Biochemistry Scientific Writing
2	M.Sc Computer Science	
3	M.A English	
4	M.Com	

7. **Courses in collaboration with other universities, industries, foreign institutions, etc. NA**
8. **Details of courses/programmes discontinued (if any) with reasons**
Vocational course in Industrial Microbiology- Students not interested

in Opting for the course.

9. **Number of teaching posts**

Position	Sanctioned	Filled
Professors	----	----
Associate Professors	02	02
Asst. Professors	03	03

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.)**

Name	Qualification	Designation	Specialization	No. of Years of Experience (yrs)	No. of Ph.D. Student guided for the last 4 years
Dr.Mrs.V.R.Sapre	M.Sc, Ph.D	Associate Professor and Head	Industrial Microbiology Genetics	27	4
Dr,M.G .Bodhankar	M.Sc, Ph.D D.C.A	Associate Professor	Applied Microbiology Biotechnology	38	7
Mr. B.B.Ballal	M.Sc,SET DHE,DIPR	Assistant Professor	Immunology, Medical Microbiology	23	--
Mrs.A.A .Jape	M.Sc,DIPR	Assistant Professor	Biotechnology	15	--
Dr.Mrs.S.V.Gaikwad	M.Sc,Ph.D	Assistant Professor	Environmental Microbiology	10	--

11. **List of Senior Visiting Faculty**

Sr. No.	Name of the Faculty	Education	Duration of Association	Area of Specialization
1.	Dr Rita Verma	Ph .D.	2011	-Environmental Microbiology: -Microbes of extreme environments
2.	Dr. Mrs. Savita Paknikar	Ph.D.	2012-2014	-Medical Microbiology -Immunology
3.	Dr. Maithilli Jog	Ph.D.	2011-2016	-Microbial Ecology-Biostatistics
4.	Dr. Suchitra Patil	Ph.D.	2014-2016	-Medical Microbiology-Immunology
5.	Mr. Vikrant Gaikwad	M.E.	2015	-Fermentation Technology
6.	Mr. Somanath Nandi	M.E.	2015	-Industrial Microbiology

7.	Ms. Kajal Singh	M. Sc.	2015	Microbial Ecology
8.	Mrs. Richa Raut	M. Sc, SET	2011-2012	-Virology-Environmental Microbiology

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty ---

Sr No	Delivered	Percentage of
1 UG	Lectures Delivered	0
	Practical Classes	25
2 PG	Lectures Delivered	25
	Practical Classes	0

13. Student -Teacher Ratio (programme wise)

Sr No	Year	Programme	Student -Teacher Ratio
1	2011	UG	15.6
		PG	3.6
2	2012	UG	20.6
		PG	5.0
3	2013	UG	26.6
		PG	6.6
4	2014	UG	25.3
		PG	5.5
5	2015	UG	29.3
		PG	7.6

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Sr No	Academic Support Staff	Sanctioned	Filled
1	Technical	05	02
2	Administrative Staff	00	00

15. Qualifications of teaching faculty with DSc/ D.Litt./ Ph.D./ MPhil / PG.

Sr No	Qualifications	Number
1	DSc	--
2	D.Litt	--
3	PG	01
4	MPhil	--
5	Ph.D.	04

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:

Agencies and Grants received at	Number of Faculty with Ongoing Projects
National	nil
International	nil

17.

Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received

Sr No	Funded by	Level	Total grant (Rs)
1	UGC	➤ Major -01	8,99,800
		➤ Minor-02	1,35,000
			1,45,000
6	Bharati Vidhyapeeth University		38,000
Total			12,17,800

18. Research Centre /facility recognized by the University

Research Centre
➤ Ph.D.
Facility
Gel-Doc, PCR, Mini-Fermentor,
Electrophoresis Units, CO ₂ Incubator

19. **Publications**

a) Publication per faculty: Number of papers published in peer reviewed journals (national /international) by faculty and students

Table: Papers published by faculty in International and national Journals (Period 2011-2016)

Year	No. of Journal Publications		Database Publications	Total Publications
	International	National		
2011-12	04	-	01	04
2012-13	02	-	09	11
2013-14	11	-	-	11
2014-15	13	-	-	13
2015-16	09	-	01	10
Total	39	-	11	
Grand Total				50

Student's Publications :

Year	No. of Journal Publications		Database Publications	Total Publications
	International	National		
2011-12	-	-	-	-
2012-13	06	-	-	06
2013-14	-	-	-	-
2014-15	13	-	-	13
2015-16	09	-	-	09

- Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

YEAR	Google Scholar Cites (Publications and Conference Presentations)	Indian Citation Index	(NCBI) Database, Bethesda US, European Molecular Biology Laboratory (EMBL) and DNA Database of Japan (DDBS)	Directory of Research Journal Indexing www.drji.org	Health Internetwork (Experts Database of Medical Professionals in India) www.healthinternetwork.org http://203.197.175.21/nhic/index.asp	Scopus
2011-12	04 (MGB 03+BBB 01)	03	01	03	01	-
2012-13	21(MGB 03+BBB 18)	03	09	02	01	02 (MGB)
2013-14	13 (MGB 04+ VRS 02 +BBB 06 +AAJ 01)	04	-	05	01	02 (MGB) 01 (VRS) 01 (BBB)
2014-15	14 (MGB 02 + VRS 04 + BBB 05 + AAJ 03)	02	-	07	01	01 (MGB) 01(VRS) 01(AAJ)
2015-16	17 (MGB 03 + VRS 05 + BBB 06 + AAJ 01 + Shikha 02)	05	01	07	01	01(AAJ)
Total	69	17	11	24	05	10

Total no. listed in the international databases is 136

- ➤ Monographs
01 (Dr. V.R.Sapre)

- Chapter in Books
02 (Dr. M.G.Bodhankar), 01 Book Review of 'General Enzymology', Himalaya Publishing House, Mumbai.
- Books Edited : NIL
- Books with ISBN/ISSN numbers with details of publishers
02 as a Co Author, (Dr. M.G.Bodhankar), Textbook of Microbiology, Phadake Prakashan, Kolhapur with ISBN NO.
- Citation Index: Range 2to 4 Average 3
- SNIP: Range 0,295 to 0.77 Average 0.485
- SJR: Range 0.16 to 0,288 Average 0,25
- Impact factor: Range 0.636 to 6.42 Average 2.41
- h-index (Faculty): Range 1to 4 Average 3
- H-index : (Journal) Range 1to 24

20. **Areas of consultancy and income generated-**

Academic Year	Consultancy services provided	Name of The faculty member	Revenue generated (Rs In Lakh)
2012-15	Probiotics	Dr. V. R. Sapre	Free
2012-15	Applied microbiology and medical microbiology	Dr. M. G. Bodhankar	Free
2012-15	AIDS/HIV Infection.	Mr. B. B. Ballal	Free
2012-15	Polyunsaturated fatty acids	Mrs A. A. Jape	Free
2013-15	PGPR, Bioremediation, Applied Microbiology	Dr Shikha Gaikwad	Free

21. **Faculty as members in**

- a) National committees
- b) International Committees
- c) Editorial Boards....

Sr No	Name of the Faculty	National committees	International Committees	Editorial Boards
1	Dr.Mrs.V.R.Sapre	01	00	01
2	Dr,M.G.Bodhankar	00	00	05
3	Mr. B.B.Ballal	00	00	00
4	Mrs.A.A.Jape	00	00	00
5	Dr.Mrs.S.V.Gaikwad	00	00	02

22. **Student projects**

- a) **Percentage of students who have done in-house projects including inter departmental/programme**

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies

Sr No	Student projects	Percentage
1	Who have done in-house projects including inter departmental/programme	10%
2	Students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies	90%

23. Awards / Recognitions received by faculty and students

a) Recognitions and awards received by faculty

Name of the Person	Title
Dr. V. R. Sapre	<ul style="list-style-type: none"> ➤ Observer for SET Exam in the year 2015 and 2016. ➤ Appointed as a Referee for assessment of the Ph.D. thesis (University of Mumbai).
Dr. M. G. Bodhankar	<ul style="list-style-type: none"> • Member: Board of Studies in Microbiology of Dr. BA Marathwada University, Aurangabad, SGB Amravati University, Amravati, Solapur University, Solapur & Bharati Vidyapeeth University, Pune. • Dean, Faculty of Science • Member:- Academic Council, Planning & Monitoring Board & Board of Management, • & Bharati Vidyapeeth University, Pune ,
Dr. M. G. Bodhankar	Service Appreciation Award by Bharati Vidyapeeth
Mr. B. B .Ballal	<ul style="list-style-type: none"> • Exemplary contribution in the field of AIDS research (FRIEND'S INTERNATIONAL, USA) • BEST INTERJECTOR during ASM Virtual Workshop on Scientific Writing and Publishing (American Society for Mirobiology at Kalinga Institute of Industrial Technology, Bhubaneswar, Odisha, India). • Award for Research and teaching contribution (Pune Municipal Corporation).
Mrs. A. A. Jape	<ul style="list-style-type: none"> • Best Research Paper Awards, <ul style="list-style-type: none"> ✓ 17th National Conference of Aerobiology Society of India, ✓ International Conference on Advances in Asian Medicine International Society for Ethanopharmacology ✓ SPPU Sponsered International Seminar on Pharmaceutical to Neutraceutical.

b) Recognitions received by Students

Name of the Student	Title of the Award	Awarding Agency
Sagar Hulawale	Award for research contribution in the field of Microbiology	Applied Research Institute, Pune.
Ankush Bhat	Award for research contribution in the field of Microbiology	Applied Research Institute, Pune.
Priyanka Shede	Award for research contribution in the field of Microbiology	Applied Research Institute, Pune.

24. List of eminent academicians and scientists / visitors to the department

Sr No	Dignitaries Name	Designation
1	Mr.Manohar Auti	Founder and MD Biomark Laborateris, Pune
2	Mr. Jaydev Barve	MD Nature Care Fertilizers Pvt.Ltd, Pune
3	Dr. S.S. Nimbalkar,	Technical Director,MAARC Laborateries Pvt Ltd., Pune
4	Dr. Yogesh Gurjar	CEO and Founder ,Dispotronics,, Pune
5	Mr. Siddharth Salunke,	Director, BioEra Life Sciences Pvt Ltd, Pune.
6	Mrs.Asha Salunkhe	Tech. DirectorBioEra Life Sciences Pvt Ltd., Pune
7	Mr. Vinod Patil	Director, Dyna Biotech, Pune
8	Mr. Nitin Agnihotri	Owner SanaRica Foods, Pune
9	Mr. Nikhil Ganorkar	Managing Partners, Nila Polycast Baction, Pune
10	Pratik Katekar	Managing Partners, Nila Polycast Baction, Pune
11	Dr.B.A.Chopade	Vice Chancellor, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
12	Mr.Siddharta Salunke	MD, BioEra Life Sciences Pvt. Ltd., Pune
13	Mrs.Asha Salunkhe	Technical Director, BioEra Life Sciences Pvt. Ltd (Research & Development Center), Pune
14	Dr. Dhiraj Dhotre	Scientist, Microbial Culture Collection, Pune
15	Dr Renu Batra	Joint Secretary, University Grants Commision, Western Regional Office,Pune
16	Dr. B.P.Kapadnis.	UGC-BSR Faculty Fellow, Dept of Microbiology, University of Pune.
17	Dr.Yogesh Shouche	Incharge, Microbial Culture Collection Centre Pune
18	Dr. S.K.Singh	Incharge, NFCCI-A National Facility Agharkar Research Institute. Pune.
19	Dr. A. Dayanand	Registrar, Gulbarga University, Gulbarga.
20	Dr.Smita Kulkarni	Assist Director, NARI, Pune.
21	Hon. Dr. Sudhir Meshram	Vice- Chancellor, North Maharashtra Univeristy, Jalgoan
22	Hon. Prof. Dr. Shivajorao Kadam	Vice- Chancellor, Bharati Vidyapeeth University, Pune
23	Dr. D.P. Sapre,	Head, Department of Forensic Medicine, Medical College, Pune
24	Dr. G.P. Meshram,	Joint Director, DRDE, Nagpur
25	Dr. S.G .Gupta,	Director, Government Institute of Forensic Sciences, Aurangabad
26	Dr. D.R. Ranade,	Director, Agharkar Research Institute, Pune
27	Dr. Maithilli Kavathekar	Sahyadri Hospitals, Pune
28	Dr.Vikram Padbidri	Jahangir Hospitals, Pune
29	Dr. R. D. Kulkarni,	Medical college, Dharwad, Karnataka

25. Seminars/ Conferences/Workshops organized & the source of funding

Sr	Level (State/ National)	Duration	Event Title	Funding Agency
1	National	One day	Entrepreneurship ;A gateway for Biologists 2015	UGC
2	National	Two day	Workshop on Molecular Biology	UGC
3	National	One day	National Conference on Modern Methods in Detection Identification and Quantification of Microorganisms.	UGC
4	National	One day	National Seminar on Techniques and Applications in Forensic Science-Microbiology	UGC
5	National	Three day	National Workshop on Bioassays and Their Applications	UGC
6	National	One day	Emerging Infectious Diseases	UGC

26. Student profile programme/course wise:

Year	Name of the Course/programme	Applications received	Selected	Enrolled	
				*M	*F
2011-2012	FY	28	22	4	18
	SY	20	16	8	8
	TY	11	9	3	6
	MSC I	10	8	4	4
	MSC II	18	14	3	11
2012-2013	FY	36	29	12	17
	SY	23	18	6	12
	TY	19	15	6	9
	MSC I	29	23	7	16
	MSC II	9	7	3	4
2013-2014	FY	65	52	23	29
	SY	19	15	6	9
	TY	16	13	4	9
	MSC I	21	17	5	12
	MSC II	29	23	7	16
	FY	49	39	17	22

2014-2015	SY	31	25	17	18
	TY	15	12	17	9
	MSC I	23	18	3	15
	MSC II	19	15	4	11
2015-2016	FY	38	30	14	16
	SY	36	29	7	22
	TY	36	29	9	20
	MSC I	35	28	2	26
	MSC II	23	18	3	15

*M = Male *F = Female

27. Diversity of Students

Year	Name of the Course	% of Students from the Same State	% of Students from Other States	% of Students from Abroad
2011-2012	FY	73	5	5
	SY	69	31	0
	TY	78	11	11
	MSC I	63	13	25
	MSC II	50	36	14
2012-2013	FY	93	3	3
	SY	89	6	6
	TY	80	20	0
	MSC I	94	6	0
	MSC II	57	35	9
2013-2014	FY	83	6	6
	SY	87	13	0
	TY	85	8	7
	MSC I	94	6	0
	MSC II	57	35	13
2014-2015	FY	87	6	3

	SY	88	4	8
	TY	100	0	0
	MSC I	94	6	0
	MSC II	100	0	0
2015-2016	FY	90	3	3
	SY	76	21	3
	TY	86	3	10
	MSC I	86	14	0
	MSC II	94	6	0

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Year	National and State Competitive Examinations					Students have Cleared
	NET	SLET	GATE	Civil services	Defense services	
2011	00	00	00	00	00	00
2012	01	01	00	00	00	00
2013	01	00	00	00	00	00
2014	00	00	00	00	00	00
2015	00	00	00	00	00	00

29. Students progression

Student Progression	Against % Enrolled
UG to PG	
2011-2012	0
2012-2013	40
2013-2014	38
2014-2015	58
2015-2016	na
PG to M.Phil.	nil
PG to Ph.D.	02
Ph.D. to Post-Doctoral	nil
Employed	over period of six months and out of campus i.e. is 100 %
• Campus selection	
• Other than campus recruitment	
Entrepreneurship/Self-employment	nil

30. Details of Infrastructural facilities

Sr no	Details of Infrastructural Facilities	Facilities with Details
1	Library	➤ Central library

		➤ Departmental library
2	Internet facilities for Staff & Students	<ul style="list-style-type: none"> • PC for staff- • PC for students- • Laptop for Staff
3	Class rooms with ICT facility	01
4	Laboratories	<ul style="list-style-type: none"> • For UG • For PG

31. Number of students receiving financial assistance from college, university, government or other agencies

Year	Number of Students Receiving Financial Assistance			
	College	University	Government	Other Agencies
2011	Nil	00	Nil	Nil
2012	Nil	01	Nil	Nil
2013	Nil	04	Nil	Nil
2014	Nil	09	Nil	Nil
2015	Nil	01	Nil	Nil

32 Details on student enrichment programmes (special lectures / workshops /seminar) with external experts

Year	Student Enrichment Programmer with External Experts		
	Special Lectures	Workshops	Seminar
2011	10	01	--
2012	04	--	01
2013	06	--	01
2014	06	01	--
2015	06	--	01

33. Teaching methods adopted to improve student learning

- CBCS pattern provides opportunity/ system for continuous assessment method that helped Continuous and comprehensive evaluation that incorporates both scholastic and non-scholastic aspects of education and also brings about a spread over of the total span of instructional time.
- Efficiently implementing ICT, Video, films, wall paper presentation, poster making, group discussions, seminars and PPT presentation by students, educational visits.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Sr No	Year	Extension activities/ Institutional Social Responsibility (ISR)
1	2012	Extension activities 1) Isolation of pathogens from subway foods, community water 2 Department conducted pilot program for isolating pathogens from State Transport Vehicles (S.T. M.S.) College also communicated the prophylactic measures to state transport authorities . 3) Pilot studies of contraceptive and the findings were displayed in Newspaper ‘Times of India. Such finding helped to improve the manufacturing practices of contraceptive as claimed by Times of India
2	2013	Extension activities In 2013-2014 the institute conducted Pilot study of Mid-Day meals from different school in Pune and the finding helped to improve hygienic practices during preparation of mid-day meal. The finding also published in 54 th Annual Conference of AMI. Rohtak (Hariyana 17 th Nov. 2013)
3	2014	Institutional Social Responsibility Microbiology Exhibition for creating scientific awareness
4	2015	Institutional Social Responsibility -NSS activities: Swachha bharaat abhiyan, paryawaran day, earth day , plastic free india campaign. - Extension activities AIDS awareness program - Faculty members are involved in popularization of science through Radio talks, TV talks - Contribution to the river project in association with NCCS

35. SWOC analysis of the department and Future plans

SWOC			
• Quality TLE methods	• To bring out the young and talented	• Inadequate space for	• Improving consultancy

<ul style="list-style-type: none"> • Research oriented staff – • Opportunity to conduct challenging research studies in collaboration with other recognized institutes . • Autonomy in the design and implementation of academia. • Opportunities for designing syllabi which is challenging and relevant • Opportunities for collaboration with industry 	<p>brains from the local region and train them in the best possible manner for becoming important contributors to the discipline of microbiology at national and global level.</p> <ul style="list-style-type: none"> • Closer interaction with industry, for • Designing the curriculum, • Preparation in projects, • Delivering special lectures • Teach part of the industry concerned curriculum 	<p>research</p>	<ul style="list-style-type: none"> • -Funding from DST, DRDO,etc. • -Potential for starting job oriented/ Industry oriented courses
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Future plans

- Online course as well as program development to suit Industry needs
- CCTV surveillance
- Online internal exam
- To create awareness about self-employment and motivate the students to go for self-employment
- Expansion of lab space
- Creation of state level collaborative centers of excellence in ;research to incorporate a special time zone in the timetable. for preparation to Aptitude Examination is