

Sir P.T. Science college, Modasa

Name of the Department

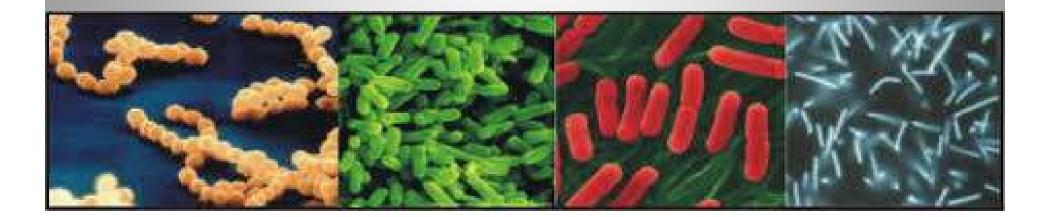
Year of Establishment

Courses offered

: Microbiology

: 2006

: B.Sc. (UG) (From: 2006)



Present Faculty Members

Name Designation Qualification Specialization Experience

- Name Designation Qualification Specialization Experience
- Name Designation Qualification Specialization
- Name Designation Qualification Specialization

- : Krishna M. Patel
- : Assistant professor(H.O.D.)
- : M.Sc., Ph.D. (Pursuing)
- : Microbiology
- : 6 years
- : Bhavika M. Solanki
- :Assistant professor
- : M.Sc.
- : Microbiology
- : 5 years
- : Darshana R. Patel
- : Assistant professor
- : M.Sc.
- : Microbiology
- : Apexa P. Joshi
- : Adhoc lecturer
- : M.Sc.
- :Microbiology









Non Teaching Staff of the Department

Technical Staff



Name Designation Qualification Experience

: Mr. Shankarbhai B. Parmar

- : Peon
- : 12 pass
- : 5 years







Former Faculty Members

- Name : Megha N. Upadhyay (Founder of the Dept.)
 Qualification : M.Sc., Ph.D.(Pursuing)
 Specialization : Microbiology
- Name : Mrs. Zalak D. Gandhi (Founder of the Dept.)
 Qualification : M.Sc.
 Specialization : Microbiology

Name: Nimisha B. PatelQualification: M.Sc. (M.phill)Specialization: Microbiology

Name : Amita N. Prajapati
 Qualification : M.Sc. (pursuing)
 Specialization : Microbiology

Former Faculty Members

- Name : Mr. Rajesh Chaudhary
 Qualification : M.Sc., Ph.D.
 Specialization : Microbiology
- Name : Keta G. Pathak
 Qualification : M.Sc. Ph.D.(Pursuing)
 Specialization : Microbiology

Name: Monita V. PatelQualification:M.Sc. Ph.D.(Pursuing)Specialization: Microbioogy

Courses Available

B.Sc. (Microbiology)

Semester	Core Compulsory	Name of the Subject	Elective Subject
Semester-I	(MB-01) (Lab-1)	Fundamentals of microbiology Practical	Cell biology
Semester-II	(MB-02) (Lab-2)	Fundamentals of bacteriology Practical	Introduction to biochemistry

Courses Available

B.Sc. (Microbiology)

Semester	Core Compulsory	Name of the Subject	Elective Subject
Semester-III	(MI-201) (Mi-202) (Mi-203 PR)	Microbial Physiology Soil and water microbiology Practical	Environmental pollution
Semester-IV	(MI-204) (MI-205) (MI-206 PR)	Microbial biodiversity Food and dairy microbiology Practical	Biodiversity

Courses Available

B.Sc. (Microbiology)

Semester	Core Compulsory	Name of the Subject	Elective Subject
Semester-V	(MI-501) (MI-502) (MI-503) (MI-504) (MI-505 PR)	Molecular basis of microbial genetics Techniques in gene transfer Classical genetics r- DNA technology Practical	Bioinformatics
Semester-VI	(MI-601) (MI-602) (MI-603) (MI-604) (MI-605 PR)	Immunology Industrial microbiology Medical microbiology Bioprocess technology Practical	Heamatology and blood banking

Infrastructural facilities of the Department

- **Laboratories : 02**
- One Class room with ICT facility
- Store Room & Preparation Room
- Staff Room
- Washing Room







Equipments Facility

Distilled water plant	- 02	Colony counter -	01
Autoclave	- 02	Electronic Balance	- 02
Hot air oven	- 02	Incubator shaker	- 01
Electrical Centrifuge	- 01	Computer	- 01
Incubator	- 04	Lesser Printer	- 01
B.O.D. Incubator	- 01	Simple Microscope	- 10
Laminar air flow	- 01	Light Microscope	- 10
Colorimeter	- 02	Electric water bath	- 01
Refrigerator	- 02	Magnetic stirrer	- 01
PH – Meter(Digital)	- 01		

INCUBATORS











Incubator shaker



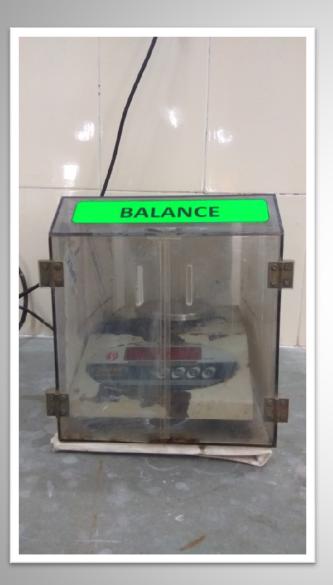
B.O.D. Incubator



Autoclave



Balance





COLORIMETER





DISTILLED WATER PLANT



LAMINAR AIR FLOW



pH METER



Teaching Methods

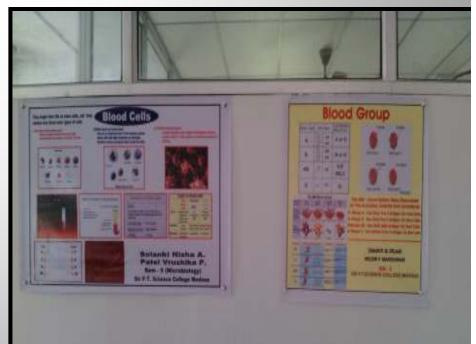
Following methodology are used (including B.B. methods)

- Lectures by PPT presentations
- **Charts**
- Demonstration of practical
- Assignment Work
- Active participation through question-answering
- Group discussion
- **Surprise Tests**
- Power point presentation seminars by students



Practical and Assignment work





Lectures by PPT presentations





Group discussion

Student seminar by PPT Presentation





No. of RESEARCH PAPERS Published during Last 5 Years

Name of Faculty	International	National	Total		
Prof. K. M. Patel	01	00	01		
Total Research Papers Published = 01					

Research Publications (Last 05 Years)

Prof. K.M. Patel (HOD)

Sr No	Title	Name of Journal / Book	Page No.	Month
1	Chemical and biological treatment of oil polluted soil around refinery area of modasa.	International journal of	104-108	2016

Conference/seminars/workshops Participated/Presented by Faculty During Last Five Years

Sr. Name of the No. Faculty	Inter- national	National	State	Participated /Presented	Total	
1	Smt. K. M. Patel	0	03	02	02/03	05
2	Smt. B. M. Solanki	00	00	01	01/00	01
3	Smt. D.R.Patel	00	00	00	00/00	00
4	Ms. Apexa P. Joshi	00	0	01	01/00	01

Student Profile

Name of the	Applications		Enro	olled	Pass
Course	received	Selected	Male	Female	(%)
		2011-12			
B.Sc. Sem-I	39	39	06	33	69.23
B.sc. Sem-II	39	39	06	33	75.80
S.Y.B.Sc.	14	14	02	12	92.85
T.Y.B.Sc.	24	24	05	19	95.83
		2012-13			
B.Sc. Sem-I	62	62	23	39	67.27
B.Sc. Sem-11	54	54	19	35	92.59
B.Sc. Sem-1II	43	43	11	32	92.85
B.Sc. Sem-1V	43	43	11	32	93.02
T.Y.B.Sc.	14	14	02	12	92.85

Student Profile

	Applications		Enro	olled	Pass
Name of the Course	received Selected		Male	Female	(%)
		2013-14			
B.Sc. (Sem-1)	80	80	10	70	75.00
B.Sc. (Sem-2)	78	78	10	68	70.20
B.Sc. (Sem-3)	54	54	19	35	83.33
B.Sc. (Sem-4)	54	54	19	35	85.42
B.Sc. (Sem-5)	42	42	11	31	87.80
B.Sc. (Sem-6)	41	41	11	30	92.68
		2014-15			
B.Sc. (Sem-1)	90	90	24	66	81.11
B.Sc. (Sem-2)	86	86	23	63	69.50
B.Sc. (Sem-3)	81	81	19	62	97.29
B.Sc. (Sem-4)	72	72	7	65	97.29
B.Sc. (Sem-5)	54	54	20	34	66.66
B.Sc. (Sem-6)	52	52	19	33	92.68

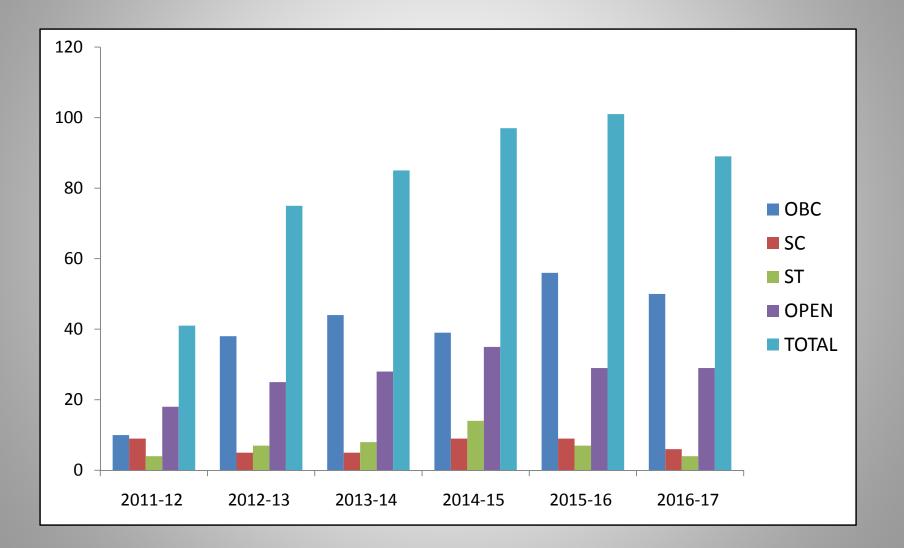
Student Profile

Name of the	Application		E	nrolled	Pass
Course	s received	Selected	Male	e Female	(%)
		2015-1	6		
B.Sc. (Sem-1)	95	95	20	75	79.80
B.Sc. (Sem-2)	95	95	20	75	56.14
B.Sc. (Sem-3)	81	81	19	62	93.23
B.Sc. (Sem-4)	81	81	19	62	87.32
B.Sc. (Sem-5)	75	75	09	66	75.12
B.Sc. (Sem-6)	76	76	09	67	64.10
		2016-1	7		
B.Sc. (Sem-1)	103	103	20	83	78.02
B.Sc. (Sem-2)	103	103	20	83	88.25
B.Sc.(Sem-3)	85	85	20	75	86.15
B.Sc (Sem-4)	85	85	20	75	94.36
B.Sc (Sem-5)	81	81	19	62	81.11
B.Sc (Sem-6)	81	81	19	62	91.0

Category wise strength of students

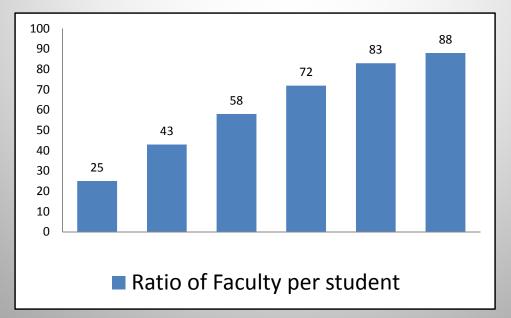
YEAR	M/F	OBC	SC	ST	OPEN	TOTAL
2011-12	М	2	2	3	4	11
2011-12	F	8	7	1	14	30
2012-13	Μ	4	1	1	1	7
2012-13	F	34	4	6	24	68
2013-14	М	5	3	2	2	12
2013-14	F	39	2	6	26	73
2014-15	Μ	8	1	9	10	28
2014-15	F	31	8	5	25	69
2015-16	Μ	13	4	1	4	22
2015-16	F	43	5	6	25	79
2016-17	Μ	13	2	3	3	21
2010-17	F	37	4	1	26	68

Category wise strength of students

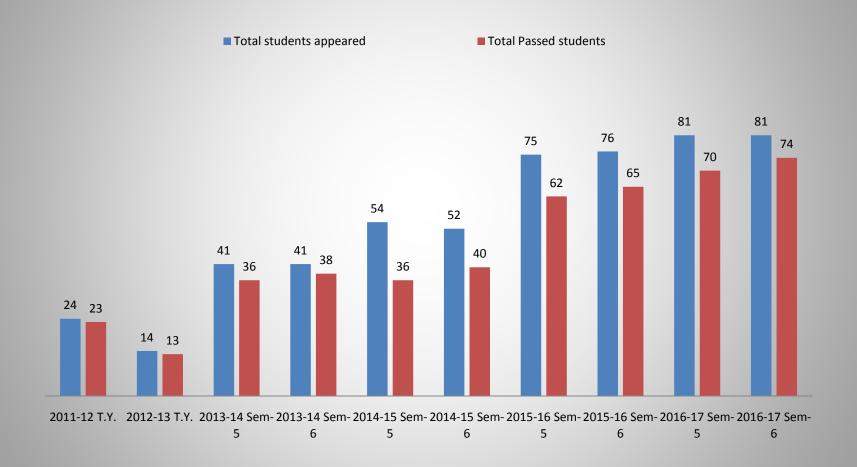


Student – Teacher ratio per Faculty

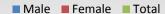
Year	Programme	Ratio
2011-12	B.Sc.	25:1
2012-13	B.Sc.	43:1
2013-14	B.Sc.	58:1
2014-15	B.Sc.	72:1
2015-16	B.Sc.	83 :1
2016-17	B.Sc.	88:1

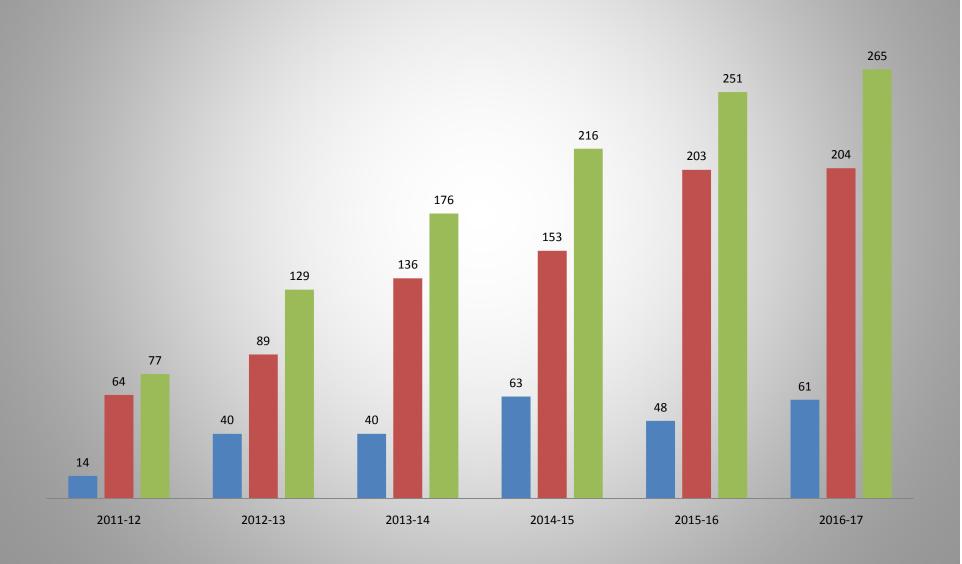


Last Five Years Result of T. Y. B.Sc.



Male - Female Ratio in Microbiology Subject





Departmental Activities

- Participation in Seminars & Conferences
- **Classroom Seminars**
- Assignment Work
- Guest Lectures
- **Educational and historical Tour**
- PowerPoint & Poster Competition



List of Senior Visiting Faculty

No.	Name	Designation	Specialization
1	Dr. S.C. Parikh	Principal of S.M. Panchal science college <i>,</i> Talod	Microbiology
2	Mr. N. A. Patel	Former HOD, H.N.S.B. science College, Himmatnagar	Microbiology



Guest lecture by Prof. Naresh Patel

Classroom seminar



Poster presentation by students







Photo Gallery



Day celebration by students

Photo Gallery



Last day of B.Sc. Sem-VI students

Photo Gallery



Wall Painting by students

Student's Achievement

No.	Name of Students	Address	Designation
1	Mrs. Monita Patel	P.H.C. Dadhalia	As a Lab technition
2	Himani Gandhi	Adarsh science college, patan	Assistant professor (H.O.D)
3	Jignesh Pandya	Adarsh science college, patan	Assistant professor
4	Dhaval prajapati	Science college, Gadh	Assistant professor (Incharge Principal)
5	Rohit Prajapati	Claris Pharmaceutical, Ahmadabad	As a microbiologist in Quality control department
6	Paresh Rathod	Claris Pharmaceutical, Ahmadabad	As a microbiologist in Quality control department
7	Bhoomika Patel	Claris Pharmaceutical, Ahmadabad	As a microbiologist in Quality assurance department

Student's Achievement

No.	Name of Students	Address	Designation
11	Jinal Shah	Civil hospital, Ahmadabad	As a Lab technition
12	Kashyap Raval	Veeda pharmaceutical, Ahmadabad	As a microbiologist in quality control department
13	Mittal Rathod	Sir P.T. science college, Modasa	As a laboratory assistant
14	Minal Jayswal	Government college, Megharaj	As a lacturer
15	Zaz ummehani	P.H.C. Jitpur	As a Lab technition
16	Nikita Charan	Science college, Veeravada	As a assistant professor
17	Sonal Damor	Civil hospital, Gandhinagar	As a lab technition

Student's Achievement

No.	Name of Students	Address	Designation
18	Palak Chauhan	P.H.C.,Bolundra	As a Lab technition
19	Apexa Joshi	Sir P.T. science college, Modasa	As a laboratory assistant
20	Mansi Soni	B-Kanae English medium school,Modasa.	As a teacher
21	Rajesh Tirgar	P.H.C. Shamlaji	As a Lab technition
22	Riya Rathod	New tech Laboratory,Modasa.	As a Lab technition
23	Ashish Rudani	Ashirwad Laboratory,Anand	As a Lab technition
24	Sonal Patel	Crystal school,Lunawada.	As a teacher

Extension Activities by Faculty

Mrs. K.M.Patel

- Examiner of T.Y.B.Sc. H.N.G. Uni. Microbiology Practical examination
- Judge of Mehndi Competition and rangoli competition in College NSS Camp and in college campus
- Guide the students for the preparing Project Report, PPT Presentation, Poster Presentation, at College & University Level.
- Actively Participated in "Mahila Sashatrikaran" a Guj. Govt. Programme on 15th Aug 2015
- Participate in various Seminars of Women's Development
- Active member of WDC (women development cell)

Extension Activities by Faculty

Mrs. B.M. Solanki

- Judge of Mehndi Competition and rangoli competition in College NSS Camp and in college campus
- Guide the students for the preparing Project Report, PPT Presentation, Poster Presentation, at College & University Level.
- Actively Participated in "Mahila Sashatrikaran" a Guj. Govt. Programme on 15th Aug 2015
- Participate in various Seminars of Women's Development
- Active member of WDC (women development cell)

College Level Committee

Smt. K.M. Patel

- H.O.D (Microbiology)
- Admission Committee
- Academic activity Committee
- Cultural Committee
- WDC committee
- **Smt. B.M.solanki**
 - SCOPE committee
 - WDC (Member)
- Smt. D.R. patel.
 - Debate committee
 - WDC member

Opportunities

- □ To Improve laboratory for UG students.
- □ To make collaboration with other institutes and colleges.
- To arrange campus interviews for UG students so that students can get their jobs easily before the completion of graduation.
- To arrange more lectures by various science-subject experts from outside the department and educational and historical tour for the students to grow their knowledge.
- We used our limited infrastructure by other alternative way to minimize our infrastructure facility.

Future Plans

- To arrange more campus interviews.
- To subscribes Research Journals and e-Journals.
- To develop Research Lab by adding more instruments.
- To do minor/major research projects by faculties.

