

# SIR P T SCIENCE COLLEGE, MODASA

## DEPARTMENT OF BIOLOGY





# INTRODUCTION

- Year of Establishment -1960
- Number of the Teaching Staff – 04+01
- Number of Technical Staff – 02+02



# INFRASTRUCTURE

## Physical

- HOD Office
- Botany Laboratory
- Zoology Laboratory
- Museum
- Staff room



## Academic

- PC with Internet facility
- Audio Visual Classrooms
- Well equipped Laboratory
- Plant Specimens
- Animal Specimens
- Charts-Botany and Zoology
- Herbarium
- Models

## ➤ FACULTY PROFILE:

Name	Qualification	Designation	Specialization	Years of Experience
Dr. S.D.Vediya	Ph.D;M.Phil;M.Sc; B.Ed;LL.B;CES	Associate Professor	Botany (Environmental Biology)	26
Dr.M.S.Jangid	Ph.D;M.Sc.	Associate Professor	Taxonomy,Ethnobotany	21
Dr.H.S.Kharadi	Ph.D; M.Sc B.Ed.	Assistant Professor	Environmental Biology	09
Dr. N.C.Vachhani	Ph.D;M.Sc	Assistant Professor	Zoology	24
Miss.B.S Dholu	M Sc	Ad hock	Botany	3

Mr.A B Suthar	M Sc (Botany)	Lab. Assistant	Full Time	19
Mr.S S Shah	D.Pharm	Lab. Assistant	Ad hock	3
Lt.Mr.P P Dave	SSC	Peon	Full Time	19
Mr.A M Bhatia	SCC	Peon	Ad hock	3



## Students Activities

- Plantation
- Plant Identification
- Instruments awareness
- Special day's Celebrations
- Biodiversity Express Visit
- Subjective Book Review
- Expert lecture attend
- Remedial Lecture attend
- Unit Test and Assignment
- Teacher's Day Celebration
- Seminar/ Conferences Attend
- Paper Presentation
- Nature conservation activities
- Essay Competition
- Model and Charts Making
- Wall Paper Display
- Study tour
- Seminar – Presentation



**SPECIAL ACHIVEMENT**  
Result M.Sc. Botany March- June-2015  
**University Topper Student List**

Sr. No.	Students Name	Marks Out of 2000	University Rank.
1	Bhagat Arti N.	1525	1 <sup>st</sup>
2	Dholu Bhavika S.	1397	3 <sup>rd</sup>
3	Pokar Mayur N.	1292	4 <sup>th</sup>
4	Patel Nisha P.	1267	5 <sup>th</sup>
5	Patel Payal N.	1253	6 <sup>th</sup>
6	Patel Khyati A.	1218	9 <sup>th</sup>
7	Patel Nainiasha S.	1215	10 <sup>th</sup>



**Result M.Sc. Botany March- June-2016**  
**University Topper Student List**

Sr. No.	Name of Student	Marks Out of 2000	Result
1	Chaudhari Niyati R	1261	First
2	Chaudhari Ruchika H.	1244	First
3	Damor Ranchhod D	1212	First
4	Katara Shital R.	1233	First
5	Panchal Janvi R	1277	First
6	Panchal Khushi K.	1267	First
7	Patel Nayan R	1165	First
8	Patel Piyush D.	1139	First
9	Patel Pritiben V.	1245	First
10	Patel Tejash G.	1130	First
11	Patel Vaishali A.	1352	Dist.
12	Prajapati Ankita M.	1207	First



CHECK LIST ROTARY		HEMCHANDRACHARYA NORTH GUJARAT UNIVERSITY, PATAN			DATE : 17/06/2015
TOP TEN LIST OF MSc SEM-4		EXAMINATION HELD IN MAR-JUN 2015			
RANK NO.	SEAT NO.	STUDENTS NAME COLLEGE NAME	STUDENTS ADDRESS	AGR. TOP 2000	RESULT
1	80 0034101	SHAGAY ANATI HANPUKHAI ( B ) MODASA	"A. JIVANAYOT SOCIETY, MODASA", MODASA , TA: MODASA , DIST.: SABARKANTHA	1525	FIRST DIST.
2	335 0034200	PATEL NEHRAVI MUKESHCHANDR ( 94 ) DEPT. OF LIFE SCIENCE	"MVA GRL. DILIPKAR HULASY PATEL, UMTA. T. UMTA , TA: VISWAGAR , DIST.: MERSANA	1456	FIRST DIST.
3	81 0034101	DHOLI BHAVIKADEN SURESHBHAI ( B ) MODASA	"ATS. S. STEEL VALLESHIMJI SOCIETY, MODASA", MODASA , TA: MODASA , DIST.: SABARKANTHA	1397	FIRST DIST.
4	100 0034101	POKAR HAYUKOMAR KAVINBHAI ( B ) MODASA	"AT. RAMCHANDRANATHA PO. BARDOL TA. MODASA", MODASA , TA: MODASA , DIST.: SABARKANTHA	1292	FIRST DIST.
5	93 0034101	PATEL NISHA PRAVINBHAI ( B ) MODASA	"M. JALDI SOCIETY MODHAJI ROAD, MODASA", MODASA , TA: MODASA , DIST.: SABARKANTHA	1267	FIRST DIST.
6	94 0034101	PATEL DATALAKSHI HARENDRAKUMAR ( B ) MODASA	"AT. GANDHIPURA PO. SEVOLA TA. MODASA", MODASA , TA: MODASA , DIST.: SABARKANTHA	1253	FIRST
7	338 0034200	SOLANKI DINDALAKSHI SURESHCHANDR ( 96 ) DEPT. OF LIFE SCIENCE	"AT-PO-BERHA, VASWARVAS TA-VISWAGAR DIST. VISWAGAR (KAMBA) , TA: VISWAGAR , DIST.: MERSANA	1251	FIRST
8	337 0034200	RAJPUT TEJALAKSHI AJAYKUMAR ( 96 ) DEPT. OF LIFE SCIENCE	"SUDHAKAR SOCIETY, B/M- HOTEL RAJWAL, P. KALADPUR , TA: PALANPUR , DIST.: SABARKANTHA	1244	FIRST
9	91 0034101	PATEL SHYAMLI AVINASHBHAI ( B ) MODASA	"AT. VISWAMPURA TA. KAPADIVANU DIST. KHEDA", MODASA , TA: MODASA , DIST.: SABARKANTHA	1218	FIRST
10	92 0034101	PATEL MAINESHADAKHEN SURESHCHANDR ( B ) MODASA	"AT. PADASARASWATI PO. MODASA TA. MODASA", MODASA , TA: MODASA , DIST.: SABARKANTHA	1215	FIRST

NOTE : TRIAL SHOULD BE CHECK BEFORE ISSUE RANK CERTIFICATE.



## SPECIAL ACHIVEMENT

### College Toppers in B Sc Botany

Sr.No	Student	Year	Achievement
1	Parmar Kumud S.	2008-09	College First
2	Patel Ketan B.	2009-10	College First
3	Durani Tabbasun A.	2010-11	College First
4	Patel Nisha P.	2012-13	College First
4	Bhagat Arati N	2013-14	Gold Medal
5	Prajapati Gaurav B.	2014-15	Gold Medal
6	Patel Mital K	2015-16	College First
7	Prajapati Riddhi A	2016-17	Gold Medal

## REMOVED ALUMNI STUDENTS

Sr.No.	Student Name	Post	Place
1	Manat Pankaj K.	Executive Magistrate and Deputy Mamlatdar	Modasa
2	Katara Radha D.	Scientist	Forensic Lab, Gandhinagar
3	Dr.V. A. Patel	Asso. Professor	Science College, Talod
4	Dr.M. P. Tintisara	Asso. Professor	Science College, Himmat nagar
5	Dr. Satish Patel	Scientist	Environ Project-Naroda GIDC ,Ahmedabad
6	Patel Rakesh H	M.D. Industrialist	Asian Granito Tiles Himmatnagar
7	Pandya Saurabh K.	Sanitary Inspector	P.H.C, Modasa
8	Lata Pinal N.	Police	Vadodara



# NATURE CLUB

## ACTIVITIES

- Nature conservation
- Plantation & Cleanness
- Nature Education
- Identification of Floral & Faunal Diversity
- Celebrations & Massage for the Society



# No. of Books Published

Faculty	Author / Co-author
Dr. S.D.Vediya	13
Dr.M.S.Jangid	4
Dr.H.S.Kharadi	3
Dr. N.C.Vachhani	2
<b>TOTAL</b>	<b>22</b>

## PUBLISHED BOOKS BY DR S D VEDIYA

Sr.No	Name of Book/Article	Name & Address of Publisher	Year	Remarks
1	Botany for B.Sc. Sem –I and II	Nirav Prakashan, Ahmedabad.	2012	<b>ISBN:93- 8251400-7</b>
2	Plant diversity study of Meghraj range forest District sabarkantha North Gujarat	LambertAcademic Publishing, Germany.	2012	<b>ISBN: 978-3-659-19986-8</b>
3	Phytosociology and edaphic dynamic study of Meghraj range forest district Sabarkantha Gujarat	LambertAcademic Publishing, Germany	2012	<b>ISBN: 978-3-659-23875-8</b>
4	Biodiversity : Threats and Conservation (Global to Local Level)	Powerpublications, Calcutta	2012	<b>ISBN: 978-93-81206-03-4</b>
5	Botany for B.Sc. Sem –III Paper-211	Nirav Prakashan, Ahmedabad	2013-14	<b>ISBN-93-82514-92-9</b>
6	Botany for B.Sc. Sem –III, Paper-212	Nirav Prakashan, Ahmedabad	2013-14	<b>ISBN- 93-82514-93-7</b>
7	Botany for B.Sc. Sem –IV, Paper-221	Nirav Prakashan, Ahmedabad	2014	<b>ISBN- 93-82559-25-6</b>
8	Botany for B.Sc. Sem –IV, Paper-222	Nirav Prakashan, Ahmedabad	2014	<b>ISBN- 93-82559-26-4</b>
9	Biology For Std. 11 Sem-I	Gujarat Text Book Board	2010	paramarsak-English version
10	Biology For Std. 11 Sem-II	Gujarat Text Book Board	2010	paramarsak-English version
11	Biology For Std. 11 Sem-III	Gujarat Text Book Board	2011	paramarsak-English version
12	Biology For Std. 11 Sem-IV	Gujarat Text Book Board	2011	paramarsak-English version

**BOOKS:-****PUBLISHED ARTICLE AND BOOKS BY DR M S JANGID**

SR NO	ARTICLE	MAGAZINE/GUJARATI VISHVAKOSH	YEAR	PUBLICATION
1	<b>Helloragaceae</b>	Gujarati Vishvakosh Vol.25, pp.612-613,	2009	Gujarati Vishvakosh Trust A' bad.

1	Practical Book of Botany- S Y B Sc	2009	SAI SETU PRAKASHAN	Dr S D Vedia, Pri. Dr Y B Dabgar, <b>Dr M S Jangid</b>
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SR NO	BOOK	NAME OF PUBLISHER & YEAR	AUTHORS
1	Ethnobotany and Medicinal Plants of India and Nepal, Edi. By- <b>V.Sing and A.P.Jain</b> . Plants used as shelter in Aravalley Hills (Gujarat). Chapter No.29.	Scientific Publisher Jodhpur (India) -2003	Co-author 2 Vols. <b>ISBN :</b> 81-7233-347-1 <b>Available on NET</b>
2	Ethnobotanical studies of Angiosperms of Modasa Taluka Dist.S.K.(NG)India.	<b>Lap Lambert</b> Academic Publication- <b>Germany</b>	<b>ISBN:978-3-8484-8934-3</b> <b>Available on NET</b>
3	Vanaspati Shastra-211, CC-BOT-211	Nirav Prakashan A'bad	<b>ISBN:9382514929</b>



## PUBLISHED BOOKS BY DR H S KHARADI

SR NO	BOOK	NAME OF PUBLISHER & YEAR	AUTHORS
1	Plant diversity study of Megharj range forest Dist.S.K. Gujarat. India.	Lambert Academic Publishing,Germany, ISBN:-978-3-659-19986-8	Dr. S.D. Vediya & Dr.H.S.Kharadi
2	Phytosociological, Litter dynamic study of Megharj range forest India.	Lambert Academic Publishing,Germany, ISBN:-978-3-659-19996-7	Dr.H.S.Kharadi & Dr. S.D. Vediya
3	Vanaspati Shastra-222,CC-BOT-222	Nirav Prakashan A'bad, ISBN:93-82559-26-4	Dr.H.S.Kharadi

## PUBLISHED BOOKS BY DR N C VACHHANI

Sr.No	Name of Book/Article	Name & Address of Publisher	Year	Remarks
1	A brief account of Spider	Lambert-Germony	2012	ISBN: 978-3-659-28061-0
2	Mites of the Gujarat sub district	Lambert-Germony	2012	ISBN: 978-3-8443-1933-0



No. of Seminars/Work-shop/Conferences  
Attended  
of The Department

Faculty	National	International
Dr. S.D.Vediya	50	6-Out of Country 3-India
Dr.M.S.Jangid	15	03
Dr.H.S.Kharadi	11	03
Dr. N.C.Vachhani	09	01
<b>TOTAL</b>	<b>85</b>	<b>15</b>

## Faculty as members in National, International Committees and Editorial Boards.

Name	Committes	Designation
Dr.S.D.Vediya	IWWA-Indian Water Works Association, Mumbai India	Life Member
	<b>Society of Wetland Scientist, USA</b>	Gratis-Member (2016-18)
	ISCA-Indian Science Congress Association	Life Member Membership No.L.21368
	NGBS-North Gujarat Bio-science Society	Life Member-Vice President
	IRJC-Indian Research Journal of Chemistry	Editorial Board Member
	International Journal of Limnology	Editorial Board member
	IJPLS-International Journal of Life sciences and Pharmacy	Life Member
	Life ScieneLeaf lets L	Life member
	Plant Archives	Life Member
	Gujarat Text Book Board	Paramershak
	HNGU-Study Board	Chairman
Dr.M.S.Jangid	Plant Archives	Life Member
	Life Sciences Leaflets	Life Member
	Life ScieneLeaf lets	Editorial Board member
Dr.H.S.Kharadi	Indian Science Congress	Life Member
Dr.N.C.Vachhani	Indian Science Congress	Life Member

## Awards / Recognitions received by faculty:

<b>Faculty</b>	<b>Awards/Recognition</b>	<b>Particulars</b>
Dr.S.D.Vediya	Session Chair	International Conference-The 3 <sup>rd</sup> Asian Conf. on sustainability,Energy and environment, OSAKA, Japan
	Session Chair	HNGU,Patan organized Quality Enhancement Programme
	Chairmen	Board of studies - Botany
	Member	Academic Council-HNGU,Patan
Dr.M S Jangid	Ph.D	NGBS-North Gujarat Bio-science Society,PILAVI

## MINOR RESEARCH PROJECT

National International funding agencies and grants received

No	Name of Teacher	Minor/ Major	Title of Research Project	Funding Agency	Funds Rs.	Duration	Sanction No & Date
1	Dr.M.S.Jangid	Minor	The floristic study of Modasa taluka,dist. Sabarkantha (Gujarat)	U.G.C	85,000/-	2008-11	F.47-435/o8(WRO), Dt.18 Dec,2008 (Completed)
2	Dr. M.S.Jangid	Minor	Floristic and Ethnobotanical Studies of Idar-Vadali Forest ranges Dist.Sabarkantha.	U.G.C	2,10,000/-	2014-2017	On going,File No.47-1027/14(WRO) DT 20 Feb. 2015
3	Dr. S.D.Vediya	Minor	Assessment of Dairy Effluent and its application on soil and plants of sabarkantha district.	U.G.C	5,00,000/-	2014-15	Applied
4	Dr.H.S.Kharadi	Minor	Phytosociological,edaphic and biodiversity assessment of five zone of Meghraj forest Dist,Arvalli,Gujarat.	U.G.C	5,00000/-	2014-2016	Applied

## Research Work(Ph.D Students)

Sr. No.	Name of recognized guide	University	No. of Ph.D. student awarded	No. of Ph.D. student Working
1	Dr. S.D,Vediya	H.N.G.U.	05	03
2.	Dr.M.S.Jangid	H.N.G.U	01	02

## Details of Publication

No. of Paper Published	
Faculty	National and International journal
Dr. S.D.Vediya	21
Dr.M.S.Jangid	18
Dr.H.S.Kharadi	3
Dr. N.C.Vachhani	3
<b>Total</b>	<b>45</b>

## Citation indices in Google Scholar


Faculty	Citation	h-Index
Dr S D Vedia	28	3
Dr M S Jangid	22	3

## Publications of Dr.S D Vediya

Sr No	Title	Journal	Year	Vol./Page
1	Microbiological assessment of Sabarmati river water and river lan sediments collected from Gandhinagar to Ahmedabad, .	Asian Journal of Microbiology, Biotechnology and Environmental Science ISSN: 0972-3005	2009	Vol.11 No.1 pp.101-104.
2	Ethnomedicinal study of some selected verbinaceous plants of Modasa taluka, Dist. S.K (N G) .	Plant Archives ISSN: 0972-5210	2009	ISSN: 0972-5210
3	Phenological study of some dry deciduous forest tree species of Shamlaji forest, North Gujarat, India.	Plant Archives ISSN: 0972-5210	2009	Vol.9. No.1 pp.421-422
4	Comparative analysis of heavy metals in water and sediments of sabarmati river from Gandhinagar to Ahmedabad, Gujarat, India	PlantArchives, ISSN: 0972-5210	2009	Vol.9 No.1pp.309-312
5	Status of fluoride in ground water of several villages of Modasa Taluka, North Gujarat for drinking pupose	Der Pharma chemical ISSN: 0975-413X	2010	2(2): 237-240.
6	Cationic contamination in lake's water situated south area at Ahmedabad Gujarat,	International Journal of Pharmacy and Life Sciences ISSN:0976-7126	2011	2(2), Feb: 568-570.,.
7	Study of plant diversity in Meghraj range forest District Sabarkantha North Gujarat India,	International Journal of Pharmacy and Life Sciences, ISSN:0976-7126	2011	2(7), July: 903-908



8	Biological spectrum of Ramgadhi (Meghraj) range forest, District sabarkantha Gujarat	International Journal of Pharmacy and Life sciences. ISSN:0976-7126	2012	3(7), July: 1868-1870
9	A studies of toxic metals in Sarkhej lake water, Ahmedabad, Gujarat	International Journal of Pharmacy and Life Sciences. ISSN : 0976-7126.	2012	3 (9), Sept: 1985-1986
10	Assessment of nitrate contamination of the ground water samples in Bhiloda Taluka of Sabarkantha district, Gujarat	International Journal of Pharmacy and Life Sciences ISSN : 0976-7126.	2012	3 (11 ) November: 2103-2106
11	Seasonal variations in physico-chemical characteristics of soil in Chandlodia and Gota lakes of Ahmedabad Gujarat, India	Life sciences leaflet. ISSN: 0976-1098.	2012	12, December: 151-156
12	Concentration level of elements in selected macrophytes Nikol lake Ahmedabad, Gujarat, India,	The Journal of Energy and Environmental Science, Photon;ISJN:4382-1729	2013	127, March : 194-200
13	Selected fresh water macrophytes to assess macro and micro elements contamination of Thaltej and Nikol lake at Ahmedabad, Gujarat, India	Life sciences leaflet. ISSN: 0976-1098.	2013	4, April: 6-11
14	The pilot study of COD Removal in Industrial complex effluent by wetland plants Cyperus rotundus Linn	Universal Journal of Environmental Research and Technology, e ISSN: 2249 0256	2013	Volume 2, Issue 5: 439-442



16	Separation of Photosynthetic pigments in spirogyra specis by means of thin layer chromatography from Sola lake, Ahmedabad, Gujarat	International Journal of Pharmacy & Life Sciences. .ISSN: 0976-7126	2013	Volume 4, Issue 7 July: 2819-2822
17	Cationic Contamination in Lake's Water Situated West Zone, Ahmedabad, Gujarat,India.	Official Conference Proceedings of The Asian Conference on Sustainability,Energy and the Environment 2013, Osaka, Japan ISSN: 2186-2311	2013	pp. 42-48
18	Dust pollution monitoring by higher groups of plants near stone quarrying industry-A case study in Vadagam,Arravali district, Gujarat	Life sciences leaflet . ISSN: 0976-1098	2014	53, July:57-60
19	Plant diversity study of Raigadh range forest, Sabarkantha district, Gujarat.	Life sciences leaflet . ISSN: 0976-1098.	2014	53, July:73-78
20	Concentration level of elements in selected macrophytes Nikol lake Ahmedabad, Gujarat, India,	Conference Proceedings of 15 <sup>th</sup> World Lake Conference 2014,Perugia Italy	2014	Volume 2, Issue 5: 439-442
21	Seasonal Variations in Physico – Chemical Characteristics of Soil in Sola and Gota Lakes of Ahmadabad, Gujarat, India.	International Journal of Pharmacy & Life Sciences. ISSN: 0976-7126	2014	Volume 5(9) , Sptember: 3807-3812

## Dr M S Jangid

Sr No	Title	Name of Journal	Page No.	Vol. No.	Year/ISSN No.
1	Ethnomedicinal study of some selected plants of Acanthaceae family of Modasa taluka dist.Sabarkantha	Plant Archives	pp.401-402	Vol.6 No.09,	2009. ISSN:0972-5210
2	Ethnomedicinal study of some selected Verbinacious plants of Modasa taluka dist.S.K.(N.G.)India.	Plant Archives	, pp.391-393	Vol.6, No.09	2009. ISSN: 0972-5210.
3	Study of tree species diversity of Modasa taluka,District Sabarkantha(Guj.)India.	Life Science leaflets	119-126,	Vol.4:	2010,(ISSN 0976-1098)
4	Ethnomedicinal study of some selected plants of family Capparaceae of Modasa taluka,dist.Sabarkantha	Life Science leaflets	:Page 201-205,	Vol.7	2010 (ISSN 0976-1098)
5	Ethnobotany of Lannea coromandelica (Hout.) Merril. from Aravali Forest Areas of North Gujarat, Indi	Plant Archives	pp.729-731,	Vol.10, No.02,	2010 ISSN:0972-5210.
6	Weed plants of Modasa taluka district Sabarkantha(Gujarat)	Life Science leaflets	Page 435-442,	Vol.13:	1st March 2011 ISSN 0976-1098
7	Plant parts are used medicinally of taluka modasa, district Sabar kantha (Gujarat) India.	Life Science leaflets	:Page,458-461,	Vol. 14	1st April 2011, ISSN:0976-1098
8	Climbers of taluka Modasa,district SabarkanthaGujarat)India.	Life Science leaflets	Page,466-471,	Vol.14:	1 <sup>st</sup> April 2011 ISSN :0976-1098)
9	Poisonous plants of taluka odasa,district SabarkanthaGujarat)India.	Life Science leaflets	:Page,462-465,	Vol.14	1 <sup>st</sup> April 2011.ISSN 0976-1098

## Dr M S Jangid

11	Aquatic plants of taluka Modasa,district SabarkanthaGujarat)India	Life Science leaflets	:Page,631-635,	Vol.17	2011 0976-1098
12	Taxo-ethnobotanical studies of angiosperms of Modasa taluka,dist Sabarkantha(North Gujarat),India.	Life Science leaflets	:Page,818-82 ,	Vol.19	2011 0976-1098
13	Ethnobotanical studies of selected plants of mimosaceae family of Idar-Vadali forest ranges,distri	Life Science leaflets	:Page No.51-59 ,	Vol.4	2013 0976-1098
14	Ethnobotanical uses of plants by tribal Dwellers in Narmada forest division,Gujarat.	Life Science leaflets	:Page No.21-29 ,	Vol.7	2013 0976-1098
15	Study of angiosperm with ethnobotanical aspects of modasa taluka dist - sabarkantha (north gujarat)	Life Science leaflets	119-126,	Vol.4:	1 <sup>st</sup> Dec 2013 2277 - 4297
16	Biological spectrum of taluka Modasa District Sabarkantha(Gujarat)India	Life Science leaflets	:Page 201-205,	Vol.7	1st Dec 2012 2277 - 4297
17	Estimating Status of Soil Organic Carbon in Tropical Forests of Narmada Forest Division, Gujarat, India.	International Research Journal of Environment Sciences	1-5	Vol. 4(1)	ISSN 2319-1414 January (2015)

## Dr.H S Kharadi

SR NO	NAME OF RESEARCH PAPER	YEAR	PUBLICATION	AUTHORS
1	Study of plant diversity in Meghrej range forest District Sabarkantha, North Gujarat, India.	2011	International Journal. of Pharm.&Life Sci., ISSN:0976-7126	Dr.Hasmukhbhai S. Kharadi , Dr.S.D. Vediya
2	Floristic diversity of Isari zone, District Sabarkantha, North Gujarat, India	2011	International Journal. of Pharm.&Life Sci. ISSN:0976-7126	Dr.Hasmukhbhai S. Kharadi & Dr. S.D. Vediya
3	Biological spectrum of Ramgadhi range forest, District Sabarkantha, North Gujarat, India	2012	International Journal. of Pharm.&Life Sci. ISSN:0976-7126	Dr.Hasmukhbhai S. Kharadi & Dr. S.D. Vediya

## Dr N C Vachhani

Sr No	Title	Journal	Year	Vol./Page
1	Study of Amino acids in body fluid of two species of mites(Boopilus microplus and Sarcoples mulants)	Life Sciences Leaflets	1 <sup>st</sup> -june-2012	6:1-3 ISSN-2277-4297, 0976-1098
2	A Brief account of Spider of Junagadh district, gujarat	Life Sciences Leaflets	1 <sup>st</sup> -july-2012	7:80-83 ISSN-2277-4297, 0976-1098
3	Studies on Mites from Junagadh district, gujarat	Life Sciences Leaflets	1 <sup>st</sup> -Feb-2013	6:1-3 ISSN-2277-4297, 0976-1098

## Student -Teacher Ratio (Programme wise)

Year	Programme	No of Students of Department (X)	No of Teachers of Department (Y)	Students-Teacher Ratio (X/Y)
2011-2012	B.Sc.Botany	222	03	74:1
	Zoology	91	01	91:1
2012-2013	B.Sc.Botany	262	03	87:1
	Zoology	86	01	86:1
2013-2014	B.Sc.Botany	361	03	120:1
	Zoology	75	01	75:1
	M.Sc.Botany	15	03	5:1
2014-15	B.Sc.Botany	311	03	104:1
	Zoology	70	01	70:1
	M.Sc.Botany	26	03	8:1
2015-16	B.Sc.Botany	366	03	122:1
	Zoology	76	01	76:1
	M.Sc.Botany	36	03	12:1
2016-17	B.Sc.Botany	306	03	102:1
	Zoology	74	01	74:1
	M.Sc.Botany	33	03	11:1
2017-18	B.Sc.Botany	335	03	112:1
	Zoology	40	01	40:1
	M.Sc.Botany	30	03	10:1



The list of visiting faculty in M.Sc.(Botany) is  
as under

Sr No	Name of visiting faculty
1	Dr. B. K. Jain
2	Dr.Y.B.Dabgar
3	Dr. B.L.Punjani
4	Dr. C. V. Jha
5	Dr. K.C.Patel
6	Dr.N.B.Patel
7.	Dr.H.M.Ant
8.	Dr.N.K.Patel
9.	Dr.M. M. Prajapati

## Courses offered (UG, PG and Ph.D.)

Programmes	Semester/Year	Course Offered	Ad on Courses
<b>B.Sc.</b>	<b>Semester-I</b>	<b>UG</b>	
		<b>CC-Bot-111</b> Cell biology, Algae and fungi, Plant anatomy, Environment biology	<b>ES-BOT-111</b> <b>ES-BOT-112</b> <b>ES-BOT-113</b> Plant Tissue Culture, Horticulture
<b>CC-Zoo-111</b> Taxonomy, Type study, Cytogenetics, Economic Zoology			
<b>B.Sc.</b>	<b>Semester-II</b>	<b>CC-Bot-122</b> Genetics, Bryophytes & Pteridophytes, Angiosperm morphology Plants and human welfare	<b>ES-BOT-111</b> <b>ES-BOT-112</b> <b>ES-BOT-113</b> <b>Plant Tissue Culture,</b> <b>Horticulture</b>
		<b>CC-Zoo-122</b> Taxonomy, Type study- 2, Human Physiology, Ecology and wild life biology	



# B.Sc.

## Semester-III

**CC-Bot-211**  
Morphology,  
Gymnosperms &  
Palaeobotany  
Angiosperm taxonomy

**ES-BOT-211**  
DNA:A molecule of life  
**ES-BOT-212**  
Water Quality analysis

**CC-Bot- 212**  
Plant physiology,  
Plant ecology, Genetics

**ES-BOT-213**  
Biodiversity

## Semester-IV

**CC-Bot-221**  
Morphology and  
Angiosperms,  
Angiosperm taxonomy,  
Plant Anatomy

**ES-BOT-211**  
DNA:A molecule of life  
**ES-BOT-212**  
Water Quality analysis

**CC-Bot-222**  
Angiosperm Embryology,  
Bio- chemistry  
Plant physiology

**ES-BOT-213**  
Biodiversity

**B.Sc.**

**Semester-V**

**CC-Bot-311**  
Algae, Fungi,  
Plant Pathology

**CC-Bot-312**  
Bryophytes, Pteridophytes,  
Gymnosperm

**CC-Bot-313**  
Angiosperm Family,  
Plant Ecology,  
Plant Anatomy

**CC-Bot-314**  
Cell biology, Genetics,  
Microbiology, Biostatistics

**ES-BOT-301**  
**Pharmacognosy of Hurbal drugs**  
**ES-BOT-302**  
**Fresh water Ecology**  
**ES-BOT-303**  
**Air Pollution**

**B.Sc.**

**Semester-VI**

**CC-Bot-321**  
Molecular biology,  
Plant pathology,  
Lichens, Angiosperms family

**CC-Bot-322**  
Biochemistry & Plant Plant  
physiology

**CC-Bot-323**  
Economic Botany,  
Plant Tissue culture,  
Biotechnology, Plant Ecology

**CC-Bot-324**  
Plant Anatomy, Plant Breeding,

**CC-Bot-322**  
Biochemistry & Plant Plant  
physiology

**ES-BOT-301**  
**Pharmacognosy of Hurbal drugs**  
**ES-BOT-302**  
**Fresh water Ecology**  
**ES-BOT-303**  
**Air Pollution**

# PG

M Sc

Semester-I

Semester-II

Paper

Elective

**CBO-401**  
Bacteriology ,Physiology  
Mycology,Plant pathology

**CBO- 402**  
Bryophytes,Pteridophytes  
Gymnosperms,Fossils

**CBO-403**  
Cell biology, Genetics

**CBO- 404**  
Angiosperm Texonomy  
Plant reproduction

**CBO-405**  
Plant Texonomy ,Ecology

**CBO- 406**  
Biophysics,Instrumentatio  
n&  
biochemistry

**EBO-401**  
Biodiversity

**EBO- 402**  
Environmental biology

**EBO- 403**  
Horticulture

**EBO 404**  
Phytochemistry  
Pharmacology of herbal  
drugs

**EBO -405**  
Plant tissue culture

**EBO- 406**  
Marine Botany

**M Sc**

**Semester-III**

**CBO- 501**  
Plant physiology

**CBO- 502**  
Plant resource utilization  
Conservation and biometry

**CBO-503**  
Molecular biology  
biochemistry

**EBO- 501**  
Biofertilizer  
**EBO- 502**  
Air pollution and  
climate change  
**EBO- 503**  
Research  
methodology and  
scientific presentations

**M Sc**

**Semester-IV**

**CBO-504**  
Plant Breeding &  
Horticulture

**CBO-505**  
Mycorrhizae, Mushrooms, Ethno  
botany & Plant Geography  
Major Desertation/Project work

**Soft-skill paper**  
English  
Language, Communication,  
Computer application,  
Personality Development

**Ph.D**

**Limnology, Biodiversity, Ecology,  
Taxonomy,  
Ethno botany**

# INSTRUMENTS IN OUR DEPARTMENT

WATERBATH



ELECTRONIC BALANCE



← OVEN →



CONDUCTIVITY-  
TDS-METER



DIGITAL  
SPECTROPHOTOMETER



COLORIMETER



DIGITAL BALANCE

D O METER



DIGITAL TURBIDITY METER



CENTRIFUGE MACHINES



CONDUCTIVITY METER

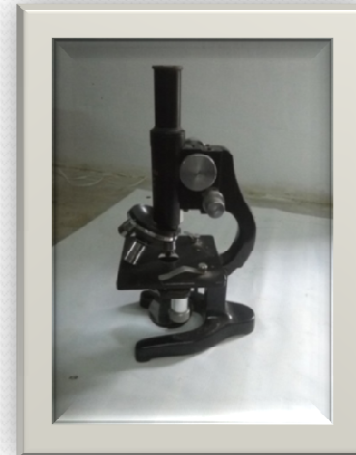
SPECTROPHOTO  
METER



PH METER



DISSECTING  
MICROSCOPE



SIMPLE  
MICROSCOPE



SOIL  
THERMOMETER



VISUAL PRESENTER



SILINIG  
PSYCHROMETER



DRY WET  
THERMOMETER

HYGROMETER



LIGHT  
MICROSCOPE



LUX METER



SOIL PH,MOISTURE TESTER

## STOP CLOCKS



## SLIDE RACK



## CHARTS ZOOLOGY & BOTANY





BALANCE



ROTARY MICROTOME



HERBARIUM CABINET



FIELD TEST KIT



WATER TESTING KIT

## LAST DAY OF COLLEGE



## PG SEMINAR



## PLANT IDENTIFICATION



TEACHERS DAY



USE OF ICT



VISITING FACULTY



FIELD VISIT

## Awareness of Specimen



Dept. Visit by School Childs



International Wetland  
Conference at Ujjain



Students exchange programmed,  
MOU With Visnagar College



White Desert Kutchh



Gujarat Science Congress  
At Kutchh

## Indian Science Congress At Bhopal



International Conference  
At Japan



100<sup>th</sup> Indian Science  
Congress



International Conference At Bali-Indonesia



International Conference  
At  
Perugia-Italy

