

S.B.V.P.Samaj's

**Sahakar Maharshi Bhausaheb Santuji
Thorat College of Arts, Science and
Commerce, Sangamner Dist.Ahmednagar**

Pin-422605

DEPARTMENT OF BOTANY

Annual Report

2015-2016

Submitted by

Head Department of Botany

**Sahakar Maharshi Bhausaheb Santuji Thorat College of
Arts, Science and Commerce, Sangamner.**

DEPARTMENT OF BOTANY

Annual Report 2015-2016

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DEPARTMENT OF BOTANY

Annual Report 2015-16

1. Date of Establishment of the Department

June -1991.

2. Built up area of the Department in Sq.ft

Lab 1 40X 30 = 1200 Sq.ft

Lab.2 10x12 = 630 Sq. ft

Total = 1830 Sq.ft

3. Student Strength 2015-2016

Sr.No.	Class	Male	Female	Total
1	F.Y.B.Sc.	50	75	125
2	S.Y.B.Sc.	44	52	96
3	T.Y.B.Sc.	02	04	06
	Total	096	131	227

4. Number of Teaching Staff UG :- 05 F.T.

Sr.No.	Name of The Teacher	Qualification	Experience
1	Dr.Mohan Waman	M.Sc. B.Ed. Ph.D.	25 Yrs.
2	Dr.Balasaheb Wagh	M.Sc. Ph.D.	24 Yrs.
3	Dr. Pornima Sabale	M.Sc. B.Ed. Ph.D.	24 Yrs.
4	Prof. Changdeo Shinde	M.Sc	24 Yrs.
5	Prof.Pranjal A.Gore	M.Sc	--

5. Work-Load: - UG

Sr.No.	Class	No. of Lect. Theory	No. of Lect. Practical	Total Work Load
1.	F.Y.B.Sc.	2x3 = 06	9 Batches x 4 = 36	42
2.	S.Y.B.Sc.	2 x 4 = 08	7 Batches x 4 = 28	36

3.	T.Y.B.Sc.	6 x 4 = 24	1Batch 3Pr. x 4 =12	36
4.	Total	38	76	114

6. Distribution of work-load UG :-

Sr.No.	Name of the Teacher	Class	Work - load		Total
			Theo.	Pract.	
1.	Dr. Mohan Waman	F.Y.B.Sc.	--	--	18
		S.Y.B.Sc.	04	08	
		T.Y.B.Sc.	04	02	
2.	Dr. Balasaheb Wagh	F.Y.B.Sc.	---	---	24
		S.Y.B.Sc.	04	12	
		T.Y.B.Sc.	06	02	
3.	Dr. Pornima Sabale	F.Y.B.Sc.	03	16	27
		S.Y.B.Sc.	--	--	
		T.Y.B.Sc.	06	02	
4.	Prof. Changdeo Shinde	F.Y.B.Sc.	03	16	25
		S.Y.B.Sc.	--	--	
		T.Y.B.Sc.	04	02	
5.	Prof. Pranjali A. Gore	F.Y.B.Sc.	--	04	20
		S.Y.B.Sc.	--	08	
		T.Y.B.Sc.	04	04	
Total Work-Load			38	76	114

7) Work-Load PG (Semester-wise) – NA

8) Paper / Courses taught during this year UG (Semester I)

Sr.No.	Class	Course No. Sem I & II	Name of Course / Paper
1.	F.Y.B.Sc.	Paper I Paper II Paper III	Plant Diversity, Industrial Botany Practical Course on Paper I & II
2.	S.Y.B.Sc.	Paper I Paper II Paper III	Taxonomy of Angiosperms and Plant Ecology Plants Physiology Practical Course on Paper I & II

3.	T.Y.B.Sc.	Paper I : 331 Paper II : 332 Paper III : 333 Paper IV : 334 Paper V : 335 Paper VI: 336 Practical Paper I Paper II Paper III	BO. 331 Cryptogamic Botany BO. 332 Cell and Molecular Biology BO. 333 Genetics and Evolution BO. 334 Spermatophyta, Palaeobotany BO. 335 Horticulture and Floriculture BO. 336 Computational Botany BO 347 BO 348 BO 349
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Paper / Courses taught during this year UG (Semester II)

Sr.No.	Class	Course No. Sem. I & II	Name of Course / Paper
1.	F.Y.B.Sc.	Paper I Paper II Paper III	Plant Morphology and Anatomy Industrial Botany Practical Course on Paper I &II
2.	S.Y.B.Sc.	Paper I Paper II Paper III	Anatomy and Embryology Plant Biotechnology. Practical Course on Paper I &II
3.	T.Y.B.Sc.	Paper I Paper II Paper III Paper IV Paper V Paper VI Practical Paper I Paper II Paper III	BO.341 Plant Physiology and Biochemistry BO.342 Plant Ecology and Biodiversity BO.343 Plant Pathology I BO.344 Medicinal and Economic Botany BO.345 Plant Biotechnology BO.346 Plant Breeding and Seed Technology BO 347 BO 348 BO 349

9. Result: - UG (Previous Year 2014-2015)

Sr.No.	Class	Adm.	App.	Drop out	Pass	Fail	Abs.	%
1.	F.Y.B.Sc.							
	BO I	125	119	06	90	28	01	76.27
	BO II	125	119	06	109	09	01	92.37
	BO III	125	119	06	116	00	03	100
2.	S.Y.B.Sc.							
	BO I	70	70	00	42	25	01	62.68
	BO II	70	70	00	46	21	01	68.65
	BO III	70	70	00	69	00	01	100

3.	T.Y.B.Sc.							
	BO I	20	19	01	15	03	01	83.33
	BO II	20	19	01	08	10	01	44.44
	BO III	20	19	01	12	05	02	70.58
	BO IV	20	19	01	12	05	02	70.58
	BO V	20	19	01	10	08	01	55.55
	BO VI	20	19	01	16	01	02	94.11
	Pract.							
	BO I	20	19	01	18	00	01	100
	BO II	20	19	01	18	00	01	100
	BO III	20	19	01	18	00	01	100

Rank Holders

Sr.No.	Rank No.	Name of the Student	Total Marks	Percentage (%)
T.Y.B.Sc.	First	Ku. Ghule Vandana Tukaram	1577	83.00
	Second	Mr. Gunjal Dhanraj Shivaji	1545	81.31
	Third	Mr. Varpe Nilesh Dilip	1544	81.26

10. Enrichment Programme for Advanced Learner

The advanced learner students are identified through continuous evolution. Regular assignment, tests, tutorials, extra lectures, expert lectures were arranged to enrich their knowledge & score. Reference books, lect. Notes are also provided to them to them.

11. Remedial Teaching for Slow Learner:-

Extra lectures, Expert lectures were arranged to enrich For Slow Learner.

12. Student Evolution:-

During the academic year 2015-2016 - Student evolution conducted through Tutorials, Unit tests, Home assignments, Terminal examination as well as Students seminars.

13. Guest Lectures:-

Our department has been organized guest Lectures under Quality Improvement Programme:-

Sr. No.	Date	Class	Name of The Lecturer	Topic
1	15/07/2015	S.Y.B.Sc.	Dr. Mahendra Khayade	Biodiversity
2		T.Y.B.Sc.	Dr. Anil Wable	Cytogenetic
3		S.Y.B.Sc.	Dr. Mahesh Kharde	Taxonomy
4		T.Y.B.Sc.	Dr. B.S. Deshmukh	Cryptogamic Botany

14. Completed Refresher Courses during academic Year – Nil

**15. Conducted any Seminar, Workshop, Conference during the academic year -
2015-2016**

Sr.No	Seminar/ Workshop/ Conference	Sponsor	Venue	Day / Date
1.	State level Conference on Indigenous Knowledge and Biodiversity Conservation	B.C.U.D. S.P.Pune University	Department of Botany	8-9 Jan.2016
2.	Organization of Karvi Festival-2015	Department of Botany	Kalsubai Mountain	26/09/2015
3.	Organization of Biodiversity Conservation Awareness Camp	Students Welfare Dept.S.P.Pune University	Kalsubai-Harischandra Wildlife Sanctuary Akole,Ahmednagar	19-20 Feb.2016

16. Attended any Seminar, Workshop, Conference etc. by Departmental Staff during Academic year 2015 -2016

Sr. No	Name of the Lecturer	Name of the Conference / Seminar Workshop	Sponsored /Organized by	Status	Date / Year
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1.	Dr.Mohan Waman	Cleanliness India Abhiyan	.P.Pune University org. by S.M.B.S.T.College Sangamner	University	5-6 Jan. 2016
		State Level Trekking Camp	S.P.Pune University org. by S.M.B.S.T.College Sangamner	State	1-3 Jan. 2016
		Conference on Recent Trends in Drug Design And Green Environment	S.P.Pune University org. by S.M.B.S.T.College Sangamner	National	8-9 Jan.2016
		Conference on Pomegranate Farming Fertilizers, Pests-Disease and Bahar Management	S.P.Pune University org. by S.M.B.S.T.College Sangamner	National	19 Jan. 2016
		Conference on Indigenous Knowledge and Biodiversity Conservation	S.P.Pune University org. by S.M.B.S.T.College Sangamner	National	8-9 Jan.2016
		Int.Conference on Environmental System And Sustainable Development	S.P.Pune University org. by C.T.Bora College Shirure	Inter-national	15-16 Jan. 2016
2.	Dr.Balasaheb Wagh	Conference on Pomegranate Farming Fertilizers, Pests-Disease and Bahar Management	S.P.Pune University org. by S.M.B.S.T.College Sangamner	National	19 Jan. 2016
		Conference on Indigenous Knowledge and Biodiversity Conservation	S.P.Pune University org. by S.M.B.S.T.College Sangamner	National	8-9 Jan.2016
		Int.Conference on Environmental System And Sustainable Development	S.P.Pune University org. by C.T.Bora College Shirure	Inter-national	15-16 Jan. 2016
		State Level Trekking Camp	S.P.Pune University org. by S.M.B.S.T.College Sangamner	State	1-3 Jan. 2016
		Conference on Recent Trends in Drug Design And Green Environment	S.P.Pune University org. by S.M.B.S.T.College Sangamner	National	8-9 Jan.2016

		Conference on Pomegranate Farming Fertilizers, Pests-Disease and Bahar Management	S.P.Pune University org. by S.M.B.S.T.College Sangamner	National	19 Jan. 2016
		Conference on Indigenous Knowledge and Biodiversity Conservation	S.P.Pune University org. by S.M.B.S.T.College Sangamner	National	8-9 Jan.2016
		Int.Conference on Environmental System And Sustainable Development	S.P.Pune University org. by C.T.Bora College Shirure	Inter-national	15-16 Jan. 2016
3.	Dr. Purnima Sabale	One day Workshop on Practical Syllabus T.Y.BSc.Botany	S.P.Pune University org. by Garware College Pune	University	5-Dec. 2015
		Conference on Recent Trends in Drug Design And Green Environment	S.P.Pune University org. by S.M.B.S.T.College Sangamner	National	8-9 Jan.2016
		Conference on Indigenous Knowledge and Biodiversity Conservation	S.P.Pune University org. by S.M.B.S.T.College Sangamner	National	8-9 Jan.2016
		Int.Symposium on Phytochemistry Malabar Botanical garden and institute of plant science Koztikode Thiruvananthapuram– Kerla .	Malabar Botanical garden and institute of plant science Koztikode	Inter-national	on 27 Dec.2016.
4.	Prof. Changdeo Shinde.	Conference on Indigenous Knowledge and Biodiversity Conservation	S.P.Pune University org. by S.M.B.S.T.College Sangamner	National	8-9 Jan.2016
		State Level Trekking Camp	S.P.Pune University org. by S.M.B.S.T.College Sangamner	State	1-3 Jan. 2016
		Conference on Recent Trends in Drug Design And Green Environment	S.P.Pune University org. by S.M.B.S.T.College Sangamner	National	8-9 Jan.2016

		Int.Conference on Environmental System And Sustainable Development	S.P.Pune University org. by C.T.Bora College Shirure	Inter-national	15-16 Jan. 2016
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17. Research Project On going:-Minor

Sr.No.	Name of the Teacher	University / UGC Funded	Subject	Name of the Topic	Total Cost Rs./
1.					

18. Research Project Completed:-Minor

Sr.No.	Name of the Teacher	University / UGC Funded	Subject & Year of Completion	Name of the Topic	Total Cost Rs./
1.	Dr.Mohan B. Waman	U.G.C	Botany 2013-2015	Exploration of RET species and ethnobotanical aspects of Sacreed groove in and around Kalsubaiharishchandragrh wild life Sanctuary, Akole tehsil, Ahmednagar District.	1,65000
2.	Dr.Mohan B. Waman	B.C.U.D. S.P.P.U.	Botany 2013-2015	Floristic and Ecological diversity of Kalsubaiharishchandragrh wild life Sanctuary, Akole tehsil, Ahmednagar District.	2,65000
3.	Dr. Mohan Waman	BCUD, S.P. Pune University	Ethnobotany	Ethnobotany and conservation of some selected members of Asclepidaceae from North-Western region of Ahmednagar	1,65000

19. Ph.D. Research (On going): No

20. Details of Research Students Working in the Department:

Sr.No.	Name of The Candidate and Name Of the Guide	Name of the Degree and Date of Registration	Subject/Topic
1.	Hingane Hemalata Nivrutti Dr.M.B.Waman	Ph.D 17/10/2014	Botany/Environment Science Effect of air pollutant on human and plant health
2.	Padwal Anup Dashrath Dr.M.B.Waman	M.Phil. 28/09/2015	Botany/Environment Science Physicochemical, nutritional and anti-nutritional attributes of <i>Cassia tora</i> seed
3.	Mr.Varpe Subhash Nanasaheb Dr.M.B.Waman	M.Phil. 28/09/2015	Botany/Environment Science Photochemical, Nutritional composition and Antioxidant Activities of <i>Chlorophytum tuberosum</i> leaf

21. Research Paper Publication:-
Dr.Mohan B.Waman

Sr. No.	Title of the paper
1.	Mahendra S. Khyade, Suresh P. Kamble, Mohan B. Waman , Anup D. Padwal, Sangita D. Jadhav: Chemical profile and free radical scavenging potential of <i>Oxalis corniculata</i> . The Explorer: A Multidisciplinary Journal of Research , Vol., 01(1) 88-93, 2016.ISSN-2456-0995 .
2.	A.D. Padwal, S.N. Varpe and M.B. Waman : Phytochemical and Nutritional analysis of <i>Cralluma fimbriata</i> L. International Journal of researchers in Biosciences, Agriculture and Technology ; Vol. 1 (3), 193-195, 2016. ISSN: 2347-517x
3.	M.B. Waman : Phytosociological analysis of Ratangad region of Kalsubai-Harishchandragarh Wild life Sanctuary. International Journal of Recent Trends in Science and Technology ; Special Issue 25-30, 2016. ISSN: 22772812. E-ISSN: 2249-8109 .
4.	A.D. Padwal, S.N. Varpe, Patil S.S., Khatal P.V. and M.B. Waman : Precipitation and separation of heavy metals using plant extract. International Journal of Recent Trends in Science and Technology ; Special Issue 45-48, 2016. ISSN: 22772812. E-ISSN: 2249-8109 .
5.	S.C. Dandawate, M.B. Waman B.D. Wagh: Studies on Physicochemical properties of soil from Agro-waste Industrial effluents areas from Sangamner tehsil, Ahmednagar District, Maharashtra. International Journal of Recent Trends in Science and Technology ; Special Issue 61-62, 2016. ISSN: 22772812. E-ISSN: 2249-8109 .
6.	S.C. Dandawate, M.B. Waman : Physiochemical status of soils from Sangamner tehsil in

	Ahmednagar District (MS). Journal of Medicinal Chemistry and Drug Discovery ; Vol. 1 (2), 760-765, 2016. ISSN: 2347-9027.
7.	S.C. Dandawate, M.B. Waman : Soil health from rainfed area of Sangamner Tehsil of Ahmednagar District.

Dr.Balasaheb D. Wagh

Sr.No.	Title of the paper
1.	Studies on Physicochemical properties of soil from Agro-waste Industrial effluents areas from Sangamner tehsil, Ahmednagar District, Maharashtra. International Journal of Recent Trends in Science and Technology ; Special Issue 61-62, 2016. ISSN: 22772812. E-ISSN: 2249-8109
2.	Investigation of Anti-diabetic medicinal plants used by tribal inhabitant of Kalsubai reserve forest. International Journal of Recent Trends in Science and Technology ; Special Issue 61-62, 2016. ISSN: 22772812. E-ISSN: 2249-8109.

Dr.Purnima P. Sabale

Sr.No.	Title of the paper
1.	Integrated management of Zizyphus fruit rot caused by carbendazim resistance using other fungicides combines with carbendazim. International Journal of Recent Trends in Science and Technology ; Special Issue 61-62, 2016. ISSN: 22772812. E-ISSN: 2249-8109.
2.	Integrated management of Zizyphus fruit rot caused by carbendazim resistance mutant of Aspergillus niger using Insecticide combination with carbendazim. Poster presentation at Malabar Botanical garden and institute of plant science Kozhikode on 27 Dec.2016. Thiruvananthapuram – Kerla.

22. No. of Books & Journals Subscribed and their Cost: - UG

Sr. No.	Particulars	Quantity	Amount (Rs.)
1)	Text Books	14	1625
2)	Reference Books	--	--
3)	Journals	09	6200

4)	Others	--	7825
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23. Budget Allocated to the Department:-

24. Instruments Purchased in the Department

Sr. No.	Name of the Instruments	UG/PG	Qty.	Price (Rs.)
01	Herbarium Cabinet	UG	01	34,000
02	Camera Lucida Prism Type	U.G	01	0950
03	Conductivity Cell	U.G.	01	2250
04	Micro prepared Permanent Slides	U.G.	01	1190
				Total=38,390

25. Placement of the Department. (2015-16)

Sr.No.	Name of the Student	Current Status
1	Ku.Maya Varpe	Assistant Prof. at Ashvi College
2	Mr. Pravin Varpe	Project Assistant at M.I.D.C Sinnar, Nashik
3	Ku. Shital Khandage	Assistant Prof. at Talegaon College Sangamner
4.	Mr.Kanwade Sumit	Assistant Prof. at K.J.Somayya College Kopergaon
5.	Mr.Kadlag Rohit Vilas	CIJENDA- Seeds Co. Ltd.
6.	Mr.Gund Sachin Bhausahab	Chakan-Pune

26. Prize Winners of the Department: - Nil

27. Best Practices of the Department:-

Sr. No.	Programme	Year / Date
1.	Organize State level Conference on Indigenous Knowledge and Biodiversity Conservation	8-9 Jan.2015

2.	Organization of - Karvi Festival-2015	26/09/2016
3.	Participation in Landscaping and Plantation Programme in College Campus	2015-16
4.	Organization of Biodiversity Conservation Awareness Camp at Kalsubai – Harischandragad Wildlife Sanctuary	19-20 Feb. 2016
5.	The Department Organize Study tours at various places of Botanical Sense Like Kalsubai – Harischandragad Wildlife Sanctuary, Ghatghar Sacred groove, Konkan Darshan.	2015-16
6.	Participation in Plantation Programme and Conservation of R.E.T. Species at N.I.C.Chandanapuri Ghat area.	2015-16
7.	Effective Use of I.C.T in Teaching	2015-16

28. Future Plan of the next Academic Year i.e. 2016-2017

- **To organize a workshop/ Seminar/Conferences.**
- **To strengthen the Dept. with new useful equipments based on new changed Syllabus.**
- **To arrange Farm Visits / Visits to High Tech. Nurseries / Agricultural Universities.**
- **Beautification of College Campus.**

Dr. Mohan B. Waman