

PROFILE

DEPARTMENT OF BOTANY

1. Scope and Importance of Department-

- To know the importance and scope of Botany.
- To impart knowledge of science as the basic objective of education.
- To develop a scientific attitude to make students open minded, critical and curious.
- To expose themselves to the diversity amongst life forms.
- To make aware of natural resources and environment and the importance of conserving it.
- To develop the ability for the application of acquired knowledge in the fields of life so as to make our country self-reliant and self-sufficient.

2. Introduction of Department-

The department of **Botany** was established in 1997 and is one of the leading Departments of Arts, Science and Commerce College, Rahata. The department conducts academic programs at UG level.. The mission of department is to make students innovative. Dept. is having well equipped laboratory, Botanical garden. Our department is very active in research, students and teachers are actively involved in research activity.

3. Year of Establishment- 1997

4. Detail of Programmes / Courses offered (UG, PG, M. Phil., Ph.D., Integrated Masters; Integrated Ph.D., Short term courses, Career oriented courses, etc. (Current academic year)

Sr. No	Programme level	Name of the programme/ Course	Duration	Entry qualification	Medium of Instruction	Sanctioned/ Approved student strength	No. of Student admitted
1	F.Y.B.Sc	Botany	1years	XIIth Pass	English	120	40
2	S.Y.B.Sc	Botany	1 years	F.Y.B.Sc Pass	English	120	34
3	T.Y.B.Sc	Botany	1 years	S.Y.B.Sc Pass	English	20	06

5. Annual/ semester/choice based credit system/elective course pattern (programme wise)

Programme	Pattern	Year of Implementation
B.Sc	15:35	2013

6. Number of Teaching and Non-teaching positions in the department

Designation	Sanctioned	Filled
Professors	00	00
Associate Professors	00	00
Asst. Professors	02	02
Lab Assistant	01	01
Peon	02	01

7. Faculty profile with name, qualification, designation, specialization, (Ph.D. / M. Phil. Etc)

Sr. No.	Name of faculty	Qualification	Year of appointment	Designation	Specialization	Number of years of teaching experience (Year and months)	
1	Mr.S.V.Lahare	M.Sc.	1999	Head and Assistant Professor	Plant Physiology	28	4
2	Dr V.S Patil	M.Sc., Ph.D	2008	Assistant Professor	Cytogenetics and Plant Breeding	15	4
3	Mrs. R. A. Desai	M.Sc	2021	Assistant Professor	Seed Technology	2	9
4	Dr.Aher A. A.	M.Sc.,M.Phil.SET, Ph.D.	2022	Assistant Professor	Phycology	1	4

8. Ongoing /completed research projects by faculty funded by governmental and non-governmental agencies (Last five years)

Sr. No	Name of the principal investigator	Duration of the project	Name of the research project	Amount fund received	Name of funding agency	Year of sanction	Dept. of recipient
1	Nil						

9. Research papers published in journals notified on UGC website (Last five years)

Name of the Department	Name of the teacher	Title of the Paper	Details of Publication	UGC Care listed Yes/ No
Botany	Prof. S. V. Lahare	Phytochemical Analysis and Microbial Activity of <i>Mimosa Pudica</i> L.	Journal of The maharaja Sayajirao University of Baroda. ISSN- 0025-0422, 75-78	Yes
		“A review on use of various plant extract to control disease causing fungal organism”	Communicated to The Biological Bulletin	Yes
		In vitro antifungal activity of <i>Azadirachta indica</i> and cow urine against pathogenic fungi- <i>Alternaria solani</i> .	Quaderns journal ISSN NO-1138-5790, UGC-CARE approved group 2 journal.Vol.11, Issue-7, July, 2023:379-383.	Yes
Botany	Dr. V. S. Patil	Potential of different fresh water green algae for Larvicidal Activity against <i>Aedes aegypti</i> .	Journal of Xidian University, ISSN- 1001-2400, (Active Journal in Scopus), Volume 15, Issue 2, February-2021: 98-106.	Yes

		A Review on role of women in organic and sustainable farming	International Journal of Research in Science, Communication and Technology (IJARSCT), Vol.2, Issue 4, June, 2022: 57-59.	No
		A review on use of various plants extract to control disease causing fungal organism	Research Journey-Multidisciplinary International E-research journal. ISSN-2348-7143. Impact factor-6.625. Spl.issue-303, September-2022: 115-119.	No
		Phytochemical Analysis and Microbial Activity of <i>Mimosa Pudica</i> L.	Journal of The maharaja Sayajirao University of Baroda. ISSN- 0025-0422, 2022: 75-78	Yes
		Need of organic farming in modern agricultural system published	Conference proceeding of National level conference on Organic Farming. March-2023, ISBN 978-81-927305-7-8: 120-123.	No
		Modern Techniques in sustainable Agriculture published	Conference proceeding of National level conference on Organic Farming. March-2023, ISBN 978-81-927305-7-8: 128-130.	No
		<i>Cicer arietinum</i> L. Merr: A detail review.	Conference proceeding of National level conference on Organic Farming. March-2023, ISBN 978-81-927305-7-8:131-138.	No

		In vitro antifungal activity of <i>Azadirachta indica</i> and cow urine against pathogenic fungi- <i>Alternaria solani</i> .	Quaderns journal ISSN NO-1138-5790, UGC-CARE approved group 2 journal.Vol.11, Issue-7, July, 2023:379-383.	Yes
		Studies on effect of seaweed extract on seed germination, seedling growth, chlorophylls and total carbohydrates content in <i>Trigonella foenumgraecum</i> L.	Quaderns journal ISSN NO-1138-5790,UGC-CARE approved group 2 journal.Vol.11, Issue-7, July,2023: 384- 391	Yes
Botany	Mrs.Desai R.A	Phytochemical Analysis and Microbial Activity of <i>Mimosa Pudica</i> L.	Journal of The maharaja Sayajirao University of Baroda. ISSN- 0025-0422, 2022: 75-78	Yes
		Modern Techniques in sustainable Agriculture published	Conference proceeding of National level conference on Organic Farming. March-2023, ISBN 978-81-927305-7-8: 128-130.	No
Botany	Dr.Aher A. A	Studies on dominant seed borne mycoflora of <i>Glycine max</i> (Mirrill) L	Asian Jr. of experimental biological sci,special issue,149-151 ISSN-0975-5845	Yes
		. Effect of liquid algal extract on seed germinationand seedling growth in okra (<i>Abelmoschus esculentus</i> L.)	Special Issue International Journal of Recent Trends in Science and Technology ISSN-2277-2812	Yes
		Biochemical Analysis Of Farm pond Fresh Water Algae	International Journal of Research and analytical review ISSN-2349-5138	Yes

		Algal Diversity of Fresh Water Farm Pond.	<i>International Interdisciplinary Research Journal</i> ISSN 2249-9598	Yes
		Studies on the effect of algal aqueous extract on seed germination and seedling growth in <i>Cucumis sativus</i> L.	Journal of Research and Development Peer review Journal ISSN:2230-9578	Yes
		A preliminary Limnological studies of Village pond	Journal of Research and Development Peer review Journal ISSN:2230-9578	Yes
		Efficiency of farm pond algae as a liquid biofertilizer on the growth of Spinach (<i>Spinacia oleracea</i> L.)	Bulletin of Environment ,Pharmacology and life Sciences ISSN:2277-1808	Yes
		Effect of farm pond algae on productivity in <i>Cucumis sativus</i> L. Using aqueous and cow urine extract.	Bulletin of Environment ,Pharmacology and life Sciences ISSN:2277-1808	Yes
		Effect of algae on seedling growth of Cluster bean	Research Journey International Multidisciplinary E-Research Journal ISSN:2348-7143	Yes
		Effect of Liquid Algal Extracts on Seed Germinationand Seedling Growth of Ridge Gourd	Advances in plant Sciences,25 (1)149-150 -2012	
		Algal Extract as a Plant Growth Promoter	Adv. Biores.,Vol 8 (6)November 2017: 22-24 -- 2012	

		<u>Promotive Influence of Farm Pond Algae with Aqueous and Cow Urine extracts on Germination and Growth Traits in <i>Luffa cylindrica</i> L</u>	Journal Of Xidian University Volume 15, Issue 1, 2021 304-308 ISSN0970-3586 – 2021	
		<u>Effect of Algal Biomass on seed germination and seedling growth in <i>Cucumis sativus</i> L</u>	Bioinfolet 18(1A) 32-34 – 2021	

10. Number of books and chapter in edited volumes/Books Published

Title of the book/chapter published	National/ International	Year of publication	ISBN/ISSN No.	Name of the publisher
Book chapter entitled, “Types of pollution and its impact on human health” was published in reference book Environment conservation, challenges threats in conservation of biodiversity (Vol-V). V.S.Patil	National	2023	ISBN: 978-93-94766-31-0: 164-169	Scieng publication
Book chapter entitled, General Microbiology Aspects’ was published in Futuristic Trends in agriculture Engineering and Food Sciences (Vol 3)	International	2023	e-ISBN: 978-93-5747-553-2	Iterative International Publisher (IIP)
Book Chapter entitled Macroalgae treatment of Wastewater has been accepted and going to published in Green technologies for	International	Accepted	ISBN: 9781032604671	CRC Press, Taylor and Francis

wastewater treatment.				

11. Name of Research Guides-

Sr. No.	Name of research guide	Ph. D/ M. Phil
1	Dr. V. S. Patil	Ph.D

12. Number of Ph. D/ M. Phil awarded by faculty

Name of Ph. D/M. Phil scholar	Name of the Guide/s	Title of the thesis	Year of registration of scholar	Year of awards of Ph. D/ M. Phil.
Nil				

13. Faculty as chairman/members in National committees/International Committees/ Editorial, Boards/BOS/University committees etc.

Sr. No.	Name of faculty	Name of the body in which full time teacher participated	Member of editorial board	Reviewer
1.	Dr. V. S. Patil	Editor for the edited book series titled Futuristic Trends in Agriculture Engineering and Food Sciences.	IIP Series	-
2.	Dr. V. S. Patil	Reviewer for the International InSc-Journal of Basic and Applied Sciences.	-	Reviewer

14. Student undertaking field projects/ internships-

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

Program name	Program code	Year	No. student undertaking field

			projects/Internships
NA			

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

Program name	Program code	Year	No. student undertaking field projects/Internships
NA			

15. Awards / Recognitions received by faculty

Year of awards	Name of full time teachers receiving awards from state level, National level, International level	PAN	Designation	Name of the award, fellowship, received from government or recognized bodies
1	Dr. V. S. Patil		Assistant Professor	Research Excellence Award 2021
2	Dr.Aher A.A		Assistant Professor	Research Excellence Award 2021
			Assistant Professor	Best Research Scholar Award 2021
3	Mr.Lahare S.V		Assistant Professor	Excellence Teaching Award 2023

16. Numbers of awards / Medals for outstanding performance in sports/cultural activities in National/ International/ State level etc. received by students

Year	Name of the award/Medal	National/International/State etc.	Sports/Cultural	Aadhar/Student ID No.	Name of the Student
2022-23	Ist Price	District Zonal Matches	Sports	10596	Miss Cholke
		Athletics			S.G

17. Students Qualifying in State/National/International level examination (NET, SET, GATE, GMAT, GRE, TOEFL/UPSC/MPSC/State government examination, etc.)

Year	Registration No./Roll for the examination	Number of students selected								
		SET	NET	GATE	GMAT	CAT	RGE	TOFEL	Civil services	State Govt. Examinations/Others
Nil										

18. Student progression to higher studies. UG to PG, PG to M. Phil., PG to Ph. D, M. Phil to Ph. D, Ph. D to post-Doctoral, etc.

UG to PG

Sr. No.	Program Graduated From	Department Graduated from	Student Name	Name of the Institute Joined	Name of the Program admitted
1	Arts ,Science and Commerce college,Rahata	Botany	Miss Bothe R .S	PVP College ,Loni	PG

1. PG to M. Phil

Sr. No.	Program Graduated From	Department Graduated from	Student Name	Name of the Institute Joined	Name of the Program admitted
	NA				
Nil					

1. PG to Ph. D or M. Phil to Ph. D.

Sr. No.	Program Graduated From	Department Graduated from	Student Name	Name of the Institute Joined	Name of the Program admitted
Nil					

19. Placement of outgoing students (Last five years)

Year	Contact detail	Number of students placed	Name of the employer with contact details	Package received	Program graduated from
2023	Saipooja Trading Company, Astagaon.	01	Anirudha Gorde 9850337205	Consolidated pay of Rs. 10,000/- per month	B.Sc. Botany 2022-23

20. List of alumni/contribution

Sr. No.	Name of Alumni	Year of Graduation/Post Graduation	Position held	Contact detail (Email, Mobile No.)	Quantum of Contribution
1	Anirudha Gorde	2022-23		9850337205	Donated 30 cactus saplings For Cactus House

List of eminent academicians and scientists / visitors to the department-

- 1. Dr. M. N. Kharde, BoS, Chairman, Botany, SPPU, Pune**
- 2. Dr. Digambar Mokate, Associate professor, Department of Botany, SPPU, Pune and Principal investigator and regional director of RCFC-WR-NMPB, Ministry of Ayush.**
- 3. Dr. R.D.Borse, Head, Department of Botany, A.C.S.College, Satral and BoS Chairman, Restructuring Botany, SPPU, Pune**
- 4. Dr. A. S. Wabale, Head, Department of Botany, P. V. P.College, Pravaranagar and BoS Member, Botany, SPPU, Pune**
- 5. Dr. Jitendra Kumar Vaishya, Scientist Ministry of Ayush, New Delhi**
- 6. Dr. Naik sir, Scientist, Agarkar Research Institute, Pune**
- 7. Dr. Naik Madam, Scientist, DRDO, Pune**

21. Seminars/ Conferences/Workshops organized & the source of funding-

Sr. No.	Level National/ International/ State	Name of the workshop/Seminar	Funding agency	Amount sanctioned	Durations (From-To)	Number of participants
1.	International	International conference on Emerging Global Trends in Agricultural, Biological and Pharmaceutical Sciences (ICEGTABPS-2021)	Self Finance	--	12 to 14 June, 2021	221
2		Webinar On “Sustainable Agriculture, Organic and Herbal Farming”	Self Finance	--	25 th , July, 2021	
3		One day Online workshop and training programme on Bonsai- An Art of Conservation.	Self Finance	--	21 st , September, 2021	135
4		One day training workshop on “Conservation, Propagation and Value addition of Medicinal	Self Finance	--	30 th June, 2022	178

		Plants” at Arts, Commerce and Science College, Shendi (Bhandardara)				
5		A One Day Workshop on Self Conservation, Cultivation Finance and Enrichment of Medicinal Plants		--	4 th , March, 2023	

Student profile programme/course wise (Last Five Years):

Year	Name of the Course/programme (refer question no. 4)	Applications Received	Enrolled		Total number of Students
			*M	*F	
2018-19	FYBSc	134	71	62	133
	SYBSc	86	16	30	46
2019-20	FYBSc	111	38	65	103
	SYBSc	86	30	24	54
2020-21	FYBSc	96	39	56	94
	SYBSc	90	23	22	45
2021-22	FYBSc	88	32	54	86
	SYBSc	82	31	28	59
2022-23	FYBSc	59	20	20	40
	SYBSc	63	15	19	34
	TYBSc	06	02	04	06
2023-24	FYBSc	50	27	23	50
	SYBSc	17	05	12	17
	TYBSc	04	00	04	04

*M = Male *F = Female

22. Departmental result

Result Analysis 2018-2023 Summary														
Sr. No	Year	Subject	Total students	Total Adm.	Total App.	D	I	II	III	Total Pass	Total Fail	Result %		
		Annual												
	2018-19	I	132	132	119	21	27	19	38	105	14	88.23		
	FYBSc	II	132	132	119	38	26	15	29	108	11	90.75		
		III	132	132	119	79	35	02	03	119	00	100		
		Semester												
	SYBSc	Sem=I	46	46	43	13	21	04	02	40	03	93		
		II	46	46	46	15	21	07	02	45	01	97.82		
		I	46	46	46	12	10	11	03	36	10	78.9		
		II	46	46	46	09	11	05	03	28	18	60.86		
		CBCS-- 2019												
		Subject	Total students	Total Adm.	O	A +	A	B+	B	C	D	Total Pass	Fail	% Result
1	2019-20	BO 111	89	85	04	26	30	11	04	00	00	75	10	88.23 %
	FYBSc	BO 112	89	84	11	33	28	02	03	02	01	80	04	95.23 %
		BO 113	89	86	38	24	22	01	01	00	00	86	00	100%
2	SYBSc	BO 231	45	45	05	25	12	03	00	00	00	45	00	100%
		BO 232	45	45	07	30	06	00	01	00	01	45	00	100%
		BO 233	45	45	06	25	14	00	00	00	00	45	00	100%
3	Sem -II	BO 121	89	85	06	30	35	07	04	01	00	84	02	94.38

														%
	FYBSc	BO 122	89	85	13	50	21	00	00	01	00	85	00	95.50 %
		BO 123	89	85	47	20	10	02	05	00	00	85	00	95.50 %
4	SYBSc	BO 241	45	44	16	25	02	00	01	00	00	44	01	97.77 %
		BO 242	45	45	13	22	10	00	00	00	00	45	00	100%
		BO 243	45	45	15	20	09	00	01	00	00	45	00	100%
15	2020-21	BO 111	89	85	04	26	30	11	04	00	00	75	10	88.23 %
	FYBSc	BO 112	89	84	11	33	28	02	03	02	01	80	04	95.23 %
		BO 113	89	86	38	24	22	01	01	00	00	86	00	100%
6	SYBSc	BO 231	45	45	05	25	12	03	00	00	00	45	00	100%
		BO 232	45	45	07	30	06	00	01	00	01	45	00	100%
		BO 233	45	45	06	25	14	00	00	00	00	45	00	100%
7	Sem -II	BO 121	89	85	06	30	35	07	04	01	00	84	02	94.38 %
	FYBSc	BO 122	89	85	13	50	21	00	00	01	00	85	00	95.50 %
		BO 123	89	85	47	20	10	02	05	00	00	85	00	95.50
8	SYBSc	BO 241	45	44	16	25	02	00	01	00	00	44	01	97.77 %
		BO 242	45	45	13	22	10	00	00	00	00	45	00	100%
		BO 243	45	45	15	20	09	00	01	00	00	45	00	100%
	2021-22	BO 111	77	77	17	30	21	01	04	01	00	74	03	96.10 %

9	FYBSc	BO 112	77	77	29	37	05	01	00	01	00	73	04	94.10 %
		BO 113	77	77	00	10	45	12	07	00	00	74	03	96.10 %
10	SYBSc	BO 231	61	61	03	27	25	03	02	01	00	61	00	100%
		BO 232	61	61	03	38	19	00	01	00	00	61	00	100%
		BO 233	61	59	00	06	21	11	20	01	00	59	02	100%
	Sem -II	BO 121	69	69	01	14	20	09	10	06	04	64	05	92.75 %
11	FYBSc	BO 122	69	69	05	14	16	08	10	09	02	64	05	92.75 %
		BO 123	69	69	-	06	34	12	15	02	-	69	00	100%
12	SYBSc	BO 241	59	59	00	01	23	06	16	05	02	53	06	89.83 %
		BO 242	59	59	00	07	20	13	12	04	02	58	01	98.30 %
		BO 243	59	59	01	05	42	05	03	00	00	56	03	94.91 %
	2022-23	BO 111	52	46	01	08	18	04	08	02	00	41	05	89.13 %
13	FYBSc	BO 112	52	45	02	04	10	07	11	04	00	38	07	84.44 %
		BO 113	52	47	01	07	22	08	08	00	00	46	01	97.87 %
14	SYBSc	BO 231	34	34	-	-	04	03	01-	-	-	08	26	30.76 %
		BO 232	34	34	01	-	04	05	02	-	-	12	22	46.15 %
		BO 233	34	34	04	19	10	-	-	-	-	33	01	97.05 %
15	TYBSc	BO 351	06	06	00	00	02	01	01	01	00	05	01	83.33 %
		BO 352	06	06	00	01	02	01	01	00	00	05	01	83.33 %

		BO 353	06	06	00	01	01	00	00	01	00	03	03	50%
		BO 354	06	06	00	00	04	02	00	00	00	06	00	100%
		BO 355	06	06	00	00	01	01	01	00	00	03	03	50%
		BO 356	06	06	00	00	03	00	02	00	00	05	01	83.33 %
		BO 357	06	06	02	01	02	00	01	00	00	06	00	100%
		BO 358	06	06	00	03	01	00	01	00	00	05	01	83.33 %
		BO 359	06	06	02	01	01	00	01	00	00	05	01	83.33 %
		BO 3510	06	06	00	01	04	00	01	00	00	06	00	100%
		BO 3511	06	06	00	01	04	00	01	00	00	06	00	100%
	Sem -II	BO 121	40	40	-	11	18	04	04	-	-	37	03	92.5%
16	FYBSc	BO 122	40	40	01	09	20	03	04	-	-	37	03	92.5%
		BO 123	40	40	04	08	16	05	05	-	-	38	02	95%
17	SYBSc	BO 241	34	34	-	04	13	04	07	-	01	29	05	85.29 %
		BO 242	34	34	-	08	10	03	09	-	01	31	03	91.17 %
		BO 243	34	34	02	13	14	01	02	02	-	34	-	100%
18	TYBSc	BO 361	06	06	01	01	01	-	02	-	-	05	01	83.33 %
		BO 362	06	06	-	01	01	01	02	01	-	06	00	100%
		BO 363	06	06	-	02	03	-	01	-	-	06	00	100%
		BO 364	06	06	-	01	02	01	01	-	-	05	01	83.33 %
		BO 365	06	06	01	01	01	01	01	01	-	06	-	100%

		BO 366	06	06	-	01	03	01	01	-	-	06	-	100%
		BO 367	06	06	03	01	01	01	-	-	-	06	-	100%
		BO 368	06	06	02	02	01	01	-	-	-	06	-	100%
		BO 369	06	06	02	02	02	-	-	-	-	06	-	100%
		BO 3610	06	06	-	01	02	01	02	-	-	06	-	100%
		BO 3611	06	06	-	02	-	-	02	02	-	06	-	100%

23. Number of linkages for faculty exchange/student

exchange/training/internship/field trips/job on training/research etc.

Sr. No.	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Year of commencement	Duration (From-To)	Nature of linkage

24. Number of functional MoU's with corporate houses/ industries/other institutes/Universities, etc.

Organization with which MoU is signed	Name of the institution/ industry/ corporate house	Year of signing MoU	Duration	List the actual activities under each MoU year wise	Number of students/teachers participated under MoUs
MOU With Academy for Environment and Life Sciences, Agra		2021-22	2021-22 FOR 5 Years	Arrange Conference	3 Teachers 6 Student
MOU With Krishi Vidyan Kendra Babhaleshwar (KVK)		2021-22	2021-22 FOR 5 Years	For Mushroom and Spirulina Practical	For Mushroom and Spirulina Practical
MOU With Shreeganesh Rose Nursery and Farm ,Kunjirwadi-Pune		2021-22	2021-22 FOR 5 Years	Visit to Nursery	3 Teachers 6 Student

25. Details of Infrastructural facilities

1. a) Library

Sr. No.	Book Name	Publisher	No. of Copies
1.	Vidyabhartee's Complete Biology	Dr. Rajendra Shirsat, Mrs.Smita Soutadekar, Dr. Avinash Bhosale, Rajendra Bembade,	4
2.	Structural Botany (Anatomy, Embryology and	Dr. Hema Sane Prof.	2

	Palynology)	D.R. Mahajan	
3.	Plant Physiology	Dr. B.A. Patil	1
4.	Fundamentals of Plant Physiology	Dr. H.D.Sane	5
5.	Basic Biosciences Plant Sciences	Dr. Mrs. Ruchi Paliwal	5
6.	Fundamentals of Plant Biotechnology (2009)	Dr. T.N.More	9
7.	Fundamentals of Plant Biotechnology	Dr. H.Sane	2
8.	Plant Diversity and Plant Resources Management and Utilization	Dr. T.N.More	6
9.	Fundamentals of Botany Plant Diversity and Industrial Botany	Dr. K.N. Dhumal	8
10.	Taxonomy of Angiosperms	Dr. T.N. More	1
11.	Taxonomy of Angiosperms, Plant Community and Plant Physiology	Dr. K.S. Bhosale	7
12.	Fundamentals of Plant Physiology	Dr. K.N. Dhumal	8
13.	Fundamentals of Plant Physiology	Dr. H.D.Sane	1
14.	Plant Anatomy and Embryology and Plant Biotechnology	Dr. H.S.Patil	6
15.	Fundamentals of Botany Morphology, Anatomy and Industrial Botany	Dr. T.N. More	7
16.	Biology	S.D. Bhagwat	1
17.	Biology (Matakekar Pataskar Sathe)	Prof. Y.B. Mutakekar	1
18.	Practical Biology	Mrs. Mogal Khanvelkar	1
19.	A Basic Course in Environmental Studies	S. Deswal	2
20.	Rural Development Problem and Prospect	Sukhdeo K. Thorat	3
21.	Applied Botany (Sem I)	Dr. B.A. Patil	1
22.	Exploring	Yashvant P. Kanetkar	1
23.	Morphology and Anatomy	Dr. B.A. Patil	1
24.	Applied Botany (Sem II)	Dr. B.A. Patil	1
25.	Laboratory Reagents/ Speciality Research Chemicals/ Lab Instruments		1
26.	Taxonomy of Angiosperms	Dr. Mrs. Alkas Petkar	1
27.	महामंडळाचं महाबीज		1
28.	Plant Diversity and Plant Resources Management and Utilization	Dr. K.N. Dhumal	1
29.	Fundamentals of Plant Systematics and Plant Ecology	Dr. T.N. More	1
30.	The Indian Botanical Society Year Book 2009	Prof. P.C. Trivedi	1
31.	National Conference on Current Trends in Algal Biodiversity and Biotechnology	Prof. S. Ramachany	1
32.	Practical Botany (III rd Year)	Ashok Bendre	1
33.	Algae in Biotechnology and Environment	Dr. D.B. Sahoo	1
34.	ABSTRACTS	Rajesh Tope	2
35.	National Seminar on Recent Trends in Plant Sciences	Dr. M.P. Kulthe	1
36.	J-Sil	Thakar Das Mehare	1

37	ABSTRACTS State Level Seminar	Dr. G.T. Sangale	1
38	MS CIT		1
39	Enrich Environment	Avinash Kadam	3
43	Plant Physiology	Dr .A.D. More	1
44	Taxonomy of Angiosperms	Dr. T.N. More	1
45	National Symposium on Biology and Biodiversity of Freshwater Algae	Dr. T.N. More	1
46	Plant Diversity and Plant Resources Management and Utilization	H.S. Patil	1
47	ICCTABU 2006	Jayashree Raut	1
48	Fundamental Botany (Plant Diversity)	Dr. A.D. More	1
49	Applied Botany	Dr. A.D. More	1
50	Programming with C	Byron S. Eottfried	1
51	Computer Graphics C.Version	Donald D. Hearn	1
52	Data Structures	Richard F. Gilberg	1
53	Proceeding of National Conference on Plant Sciences	Dr. S.D. Pingle	1
54	Souvenir	Dr. Shahana Khan	1
55	ICCTABU 2006	Santosh Mohan Dev	1
56	Current Status of Plant Sciences	Dr. B.K. Auti	1
57	Recent Advances Botany in Relation to Crop Improvement		1
58	Modern Trends in Biodiversity conservation and Environmental Assessments	Rameshchandra Khandge	1
60	Notes	Prof. Dr. Bhushan	1
61	Catalogue	K.K. Mittal	1
62	Taxonomy		1
63	Plant Diversity	Prof. M.V. Dore	1
65	Botany Biotechnology	Dr. S.D. Pingale	1
66	Computer Fundamentals	Pradeep K. Sinha	1
67	Flora of Maharashtra State	N.P. Singh	3
68	Prof. V. Krishnamurthy A Noble Mentor and an Incomp Arable Guide of Guides	M. Balaswami	1
69	Annual Conference		1

b) Internet facilities for Staff & Students- 100mbps net facilities is available

c) Class rooms with ICT facility --- NO

d) Laboratories

Sr. No.	Facility	Detail	Area
1	HOD Cabin		150 Sq.mts

2	Botany Lab.1	FYBSc Practical	178.52 Sq.mts
3	Botany Lab.2	SY and TYBSc Practical	178.52 Sq.mts

e) List of Equipments/Instruments

Sr.No.	Name of the Equipment	Quantity
1	BOD Incubator	01
2	Gel Electrophoresis	01
3	Thermostat Rectangular Water Bath	01
4	Tissue Culture Rack	01
5	Agro Sow Moisture Meter	01
6	PH Meter	01
7	Water Bath Round	01
8	Autoclave	01
9	Centrifuge	01
10	Laminar Air Flow	01
11	Binocular Microscope	01
12	Compound Microscope	30
13	Dissecting Microscope	30

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

Sr. No.	Enrichment programmes	Experts
1	Genetics for T.Y.B.Sc Students	Dr.A.S.Wabale
2	Fungi for F.Y.B.Sc students	Dr.K.V.Palgadmal
3	Paleobotany for T.Y.B.Sc Students	Dr.M.D Kakade

27. Teaching methods adopted to improve student learning-

- You tube
- PowerPoint presentations
- Use of Video Clips
- Video Conferencing Lecture
- Organized Workshop

- Students seminars
- Field projects/Survey

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

1. IQAC Member
2. Campus Supervision Committee Member
3. Self-Appraisal
4. NCC Girls
5. Criterion 1 Chairman
6. SWO
7. Women empowerment cell
8. Criterion VI member
9. Discipline committee

29. SWOC analysis of the department

Strengths:

- Departmental activities organized to enrich programme.
- The faculty of the department is actively engaged in the research, presented research papers in different national/state level seminars & conferences.
- Research publications in international / national journals.
- Well-equipped Laboratories with all types of major equipment's and departmental Library
- Student's exposure to industry through-field trips, study tours highly qualified staff.

Weakness:

- The revised curriculum is overloaded with subjects.
- Lack of requisite number of trained Non-Teaching Staff.
- Time constraint in semester pattern is the main setback for the course
- Participation in events, seminars and Internship Programmes

30. Future plans:

- To establish the collaboration with various institutions for extension of academic and research work

- To provide hands on training to students for self-employment.
- To organize state and national level workshop and seminars.