



“ ज्ञा ऽ, विज्ञा ऽ आजि सुसंस्कार यासाठी शिजज प्रसार”

शिजजमहर्षी डॉ. बापूजी साळुंजे

Shri Swami Vivekananda Shikshan Sanstha, Kolhapur's



**PADMABHUSHAN DR. VASANTRAODADA PATIL
MAHAVIDYALAYA, TASGAON (DIST.SANGLI**

DEPARTMENT OF BOTANY

A

WARM

WELCOME

P.D.V.P. Mahavidyalaya, Tasgaon



ABOUT THE DEPARTMENT

- ESTABLISHMENT (UG):1982
- B.Sc. III : 2013 (On increasing demand of Students)
- Research Recognition : 2013 (M. Phil. AND Ph. D.)
- Learning Resources: Books

In Central Library

Text Books:237

Reference Books:336,

Number of Journals:12

Practical Books:70,

- Resources on Internet : N-List Journals, e-books

All Faculties have N- List account for Research Journals.



INFRASTRUCTURE

- Department Area: 1744 Sq. Feet
- Laboratories : 03
- Shade House : 01
- Major Research Facilities :

Laminar Air Flow (Centrally Available)

Double Beam Spectrophotometer,

**Centrifuge, Soil & Water Analysis Kit, Kjeldahl's Assembly
Trinocular and Stereoscopic Microscopes.**

- IT infrastructure :

1) Computer : 01

2) Printer : 01

3) Net Connectivity : Yes



FACULTY OF THE DEPARTMENT

Sr. No.	Name	Qualification	Designation	Specialization	Teaching Experience	Enrolled Students for Ph.D.
1	Dr. Kulkarni N. A.	M.Sc., Ph.D.	Associate Professor	Plant Physiology and Ecology	29	--
2	Dr. Patil A. A.	M.Sc., Ph.D., M.B.A.	Associate Professor	Plant Physiology and Ecology	25	02
3	Dr. Dangat B. T.	M.Sc., Ph.D.	Assistant Professor	Plant Biotechnology	08	--
4	Dr. Sathe S. S. (Till 17 Aug. 2014)	M.Sc., Ph.D.	Associate Professor	Plant Physiology and Ecology	30	04
5	Mr. Andoji Y. S.	M.Sc.	Assistant Professor	Mycology and plant pathology	05	--
6	Mrs. Mane J. S.	M.Sc.	Assistant Professor	Biodiversity	03	--
7	Mrs. Patil S. P.	M.Sc.	Assistant Professor	Biodiversity	03	--

P.D.V.P. Mahavidyalaya, Tasgaon



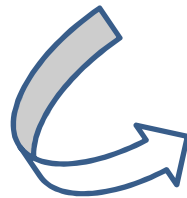
SUPPORTING NON TEACHING STAFF

Sr. No.	Name of the staff	Position	Experience
01	Shri. Kadam C. B.	Lab. Assistant	22 yrs.
02	Shri. Koli M. K.	Lab. Attendant	30 yrs.
03	Shri. Jagtap S. M.	Lab. Attendant	03 yrs.



TEACHING PEDAGOGY

- **Remedial teaching:** For Slow Learners.
- **Interactive teaching methods:** Feedback Questioning , Surprise Test , Group Discussion, Seminar, Lecture.
- **Methods adopted for classroom and laboratory teaching :**
Use Of Charts, Slides, Models.
- **Effective and reasonable use of ICT :** PPT Presentation by LCD Projector
- **Experimental learning:** Arranging Experiment as per the Practical Curriculum
- **Field based learning:** Arranging Study Tours at Different Localities of
Botanical Interest
- **Evaluation methods:** Unit Test , Class Test, Seminars





TEACHING METHODOLOGY

Field visits



P.D.V.P. Mahavidyalaya, Tasgaon



CURRICULUM DESIGN & DEVELOPMENT

TEACHERS PARTICIPATION IN CURRICULUM DESIGN & DEVELOPMENT

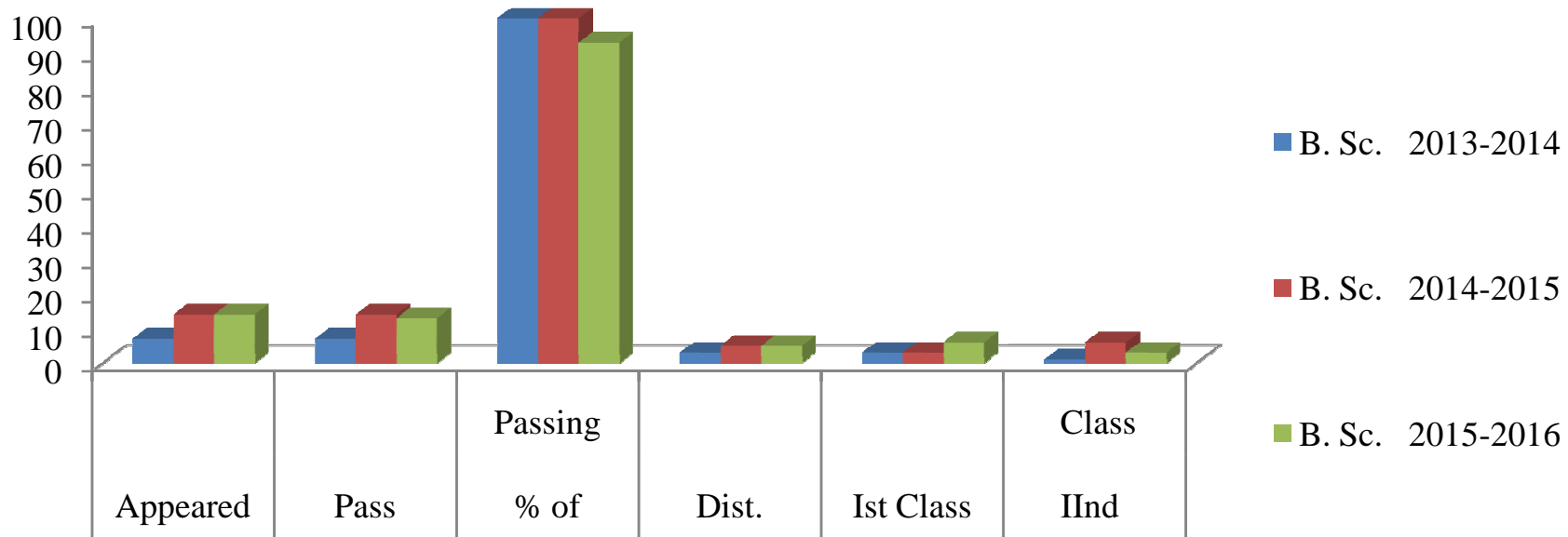
Sr. No	Name of Teacher	Board of Studies (Member of sub committee)	Name of University/ Institution
1	Dr. Kulkarni N.A.	Botany syllabus & Paper setter, Research Guide (M.Phil. & Ph.D.)	Shivaji University, Kolhapur
2	Dr. Mrs. Patil A. A.	Research Guide (M.Phil. & Ph.D.)	Shivaji University, Kolhapur



RESULT & STUDENT PROGRESSION

Percentage of students progressing from UG to PG : 33 % (07 out of 21)

Class	Year	Appeared	Pass	% of Passing	Dist.	I st Class	II nd Class
B. Sc.	2013-2014	07	07	100	03	03	01
	2014-2015	14	14	100	05	03	06
	2015-2016	14	13	92.85	05	06	03





ENROLLED STUDENTS FOR PH. D.

S. N.	Name of the Student	Enrollment date	Name of the Guide
1	Shri. Shekhar A. Mohite	01/12/2012	Dr. Sanjay S. Sathe
2	Shri. Gajanan M. Garule	01/12/2013	Dr. Alaka A. Patil
3	Miss. Geeta R. Bate	01/12/2013	Dr. Alaka A. Patil
4	Shri. Vikas V. Jadhav	01/12/2013	Dr. Sanjay S. Sathe
5	Miss. Aparna A. Patil	01/12/2013	Dr. Sanjay S. Sathe
6	Miss. Bhagyashri M. Jadhav	01/12/2013	Dr. Sanjay S. Sathe

P.D.V.P. Mahavidyalaya, Tasgaon



RESEARCH PROJECTS OF STUDENTS

Research Areas: Horticulture, Agriculture, Floriculture, Pomoculture, Gardening

Sr. No.	Year	Number of projects
1	2010- 2011	07
2	2011-2012	21
3	2012-2013	25
4	2013-2014	34
5	2014-2015	43
6	2015-2016	06
	TOTAL	136



STUDENTS ACHIEVEMENT

Research Contribution:

1. Madhuri Chavan (B. Sc. III) : State level, 2015

III rd prize winner in Avishkar Research Activity of Shivaji University, Kolhapur.

2. Pooja Deshmukhe (B. Sc. II): Regional level, 2014

Ist Prize winner in Life Sciences Poster Presentation Competition.

3. Active Participation in Poster Presentation Competition, 2014

“Biofuels: Status, Concept and Development” Organized by Dept. Of Microbiology, Shivaji University, Kolhapur



RESEARCH PROJECTS OF FACULTY

Completed and Ongoing projects : (2010-2016)

S.N.	Title of Project	Name of PI	Status	Amount (Rs)	Funding Agency
1	Agro-ecological Studies on the arid drought prone region of Sangli District.	Dr. S. S. Sathe	On going	3,50,000/-	UGC (2014-2016)
2	Studies on status and ecology of fresh wetlands in arid zone of Sangli district.	Dr. A. A. Patil	Completed	1,40,000/-	UGC (2013 - 2015)
3	Bryofloristic Studies on Liverworts and Hornworts from few Forts of Kolhapur district (Maharashtra).	Dr. R.A. Lavate	Completed	1, 10, 000/-	UGC
4	The role of Research Centers for Improvement in Distance Education Program	Dr. S. S. Sathe	Completed	13000/-	Shivaji University
5	Role of Information and Communication Technology in Distance Education	Dr. S. S. Sathe	Completed	12000/-	Shivaji University
6	Studies on the Quality Assurance Mechanism in Distance Education	Dr. S. S. Sathe	Completed	13000/-	Shivaji University
Total Outcome Rs.				6,38,000/-	

P.D.V.P. Mahavidyalaya, Tasgaon



RESEARCH PUBLICATIONS

(2010-2016)

Sr. No.	Name of Teacher	Level of Publications		Total	Total Impact factor
		International	National		
1	Dr. Kulkarni N. A.	02	08	10	0.7
2	Dr. Patil A. A.	14	09	23	3.5
3	Dr. Dangat B. T.	04	14	18	0.8
4.	Dr. Sathe S.S.	06	08	14	0.6
5	Mr. Andoji Y. S.	17	00	17	5.0
	Total Publications	43	39	82	

P.D.V.P. Mahavidyalaya, Tasgaon



PARTICIPATION OF FACULTY IN SEMINARS & CONFERENCES (2010-2016)

Sr. No.	Name of the Teacher	No. of Paper Presented		Total
		International	National	
1	Dr. Kulkarni N. A.	02	02	04
2	Dr. Patil A. A.	06	17	23
3	Dr. Dangat B. T.	04	12	16
4	Dr. Sathe S. S.	03	10	13
5	Mr. Andoji Y. S.	01	03	04
	Total Presentations	16	44	60



BOOKS PUBLISHED (2010-2016)

Sr. No.	Name of the Faculty	Number of Books	Publisher
1.	Dr. N. A. Kulkarni	Practical Book (B.Sc.II)	Phadke Prakashan, Kolhapur
		Practical Book (B.Sc.II)	Tejas Prakashan, Kolhapur
		Co-author of the book Microbiological applications and Environment (ISBN- 978-93-5056-515-5)	Discovery Publishing House Pvt.Ltd. New Delhi
2.	Dr. A. A. Patil	Practical Book for B. Sc. I and II	Phadke Prakashan, Kolhapur



OUTREACH ACTIVITIES

Biodiversity Conservation and Awareness

- ❖ Environment and its Care
- ❖ Need of Forests Development in India and its uses
- ❖ Science-Definition, Scope, Nature and Feature”
- ❖ Remote Sensing
- ❖ Coastal Ecology
- ❖ Mangrove
- ❖ Wild edible vegetables – Conservation and Use
- ❖ Natural Colours
- ❖ Women Empowerment



AREA OF CONSULTANCY

- Agriculture
- Environment protection and Plantation
- Remote Sensing and Coastal Ecology
- Identification, Cultivation and Conservation of Medicinal Plants
- Organic Farming
- Cropping Pattern
- Irrigation Methods
- Bio control and Pest Management
- Supply of Pure Culture of *Trichoderma* and Isolates of *Fusarium*.

Free Consultation as a social responsibility.



TEACHERS ACHIEVEMENTS

- **Awards:**
- 1. National Level** Best Paper Presentation Award in conference to Andoji Y. S
 - 2. State Level** Best teacher award by The Ajinkya Tara Pratishthan, Jat to Dr. N. A. Kulkarni.
 - 3. University Level** First Prize in essay competition for research students on Biotechnology Day to Dr. B.T. Dangat.
- **Fellowships:**
- 1. National Level** Honorary Fellowship of National Association to Dr. A. A. Patil .
 - 2. National Level** President, All India Foundation for Disaster Management to Dr. A. A. Patil.
 - 3. National Level** Honorary Fellowship of Society of Environmental Sciences, Dhumka (Bihar). To Dr. S. S. Sathe.



ACTIVITIES IN THE DEPARTMENT

1. National Conference (Interdepartmental Collaboration)

on 23-24 Sept 2013, entitled Frontiers in Chemical and Biological Sciences

1. One Day Seminar on Awareness of Biodiversity on

10/03/2012

2. Exhibition of Medicinal Plants on 19/03/2013.



ACTIVITIES: AWARENESS OF BIODIVERSITY

P.D.V.P. Mahavidyalaya, Tasgaon



*Dr. Vinod Shimple
Biodiversity of Western Ghats*



*Prof. Shekhar Mohite
Plants of Kas Plateau*



*Shri. Prasad Magdum
Role of Animals in Biodiversity*



Principal Dr. R. R. Kumbhar: Presidential Speech



Student's feedback





EXHIBITION OF MEDICINAL PLANTS



*Inauguration by
Principal Dr. Kumbhar*



Visit of Staff members to Exhibition



Participating students of B. Sc. II



Visit of Ayurvedacharya Dr. Gandhale and Thorat





NATIONAL CONFERENCE FCBS 2013



Dr. M. M. Salunkhe,
*Vice Chancellor
Central Univ. Rajasthan
Inaugural and Keynote speech*



Dr. I.K. Pai, *Goa University, Goa
Biodiversity of Antarctica continent*



Dr. D. G. Naik, *Scientist,
Agarkar Research Institute, Pune*



Dr. P. G. Diwakar, JD, *BSI Pune
Biodiversity of Andman*



Dr. Ashok Giri, Sr. Scientist,
CSIR-NCL, Pune plant insect interactions



Prof. S.V. Nikam
Environmental Pollution

P.D.V.P. Mahavidyalaya, Tasgaon



PARTICIPATION IN INSTITUTIONAL SOCIAL RESPONSIBILITY (I.S.R.)



Hb & HIV tests 2012,2013



New Horizon Activity



Awareness Programme for girls



*Personality and beauty
Culture course*



*Workshop on Physical and
Mental Health*



*Workshop on Rights and
responsibilities*

P.D.V.P. Mahavidyalaya, Tasgaon



COLLABORATION AND MOU

Sr. No.	Institute	Purpose
1	Nikhil Analytical and Research Laboratories, Sangli.	Detection of Soil Enzymes Conformation of Fungal species
2	Joglekar Analytical Laboratory, Tasgaon	MPN Analysis
3	Department of Botany, Shivaji University, Kolhapur.	Taxonomy of the plants
4	Interdepartmental collaboration: 1. Chemistry 2. Zoology 3. Statistics	National Conference New Horizon Activity Pest management Statistical analysis



ALUMNI

S. N.	Name of the student	Career
1	Zambare Nutan Dinkar	M. Sc.
2	Mane Archana Arjun	M. B. A.
3	Hingmire Varsha Bandopant	M. Sc.
4	Mali Sonali Subhash	M. Sc.
5	Bhosale Sadhana Balaso	M. Sc.
6	Gadhire Dipali Vikram	M. Sc.
7	Raste Shamal Bhagwan	M. Sc.



INNOVATION AND BEST PRACTICES

- Green College Project Plantation for Women Park.
- Collection, identification and preservation of plants in shade net house.
- Display of Plants Collected by the Students with their Botanical Names





VISIT OF EMINENT PERSONALITIES



*Dr. T. G. Jagtap, Scientist,
NIO, Goa*



*Dr. Hemal Kanvinde,
Director, A. E. R. C. P. Chennai*



*Dr. B. S. Ravikumar
Environmental, Karnataka*



*Dr. S. R. Yadav, Prof. and Head,
Shivaji Uni. Kolhapur*



*Prof. G. B. Dixit,
Shivaji Uni. Kolhapur*



*Prof. N. S. Chavan
Shivaji Uni. Kolhapur*

P.D.V.P. Mahavidyalaya, Tasgaon



VISIT TO SHADE-NET HOUSE

**DR. P. G. DIWAKAR,
EX JOINT DIRECTOR,
BOTANICAL SURVEY OF INDIA, (WRO) PUNE**

P.D.V.P. Mahavidyalaya, Tasgaon



SWOC ANALYSIS

Strengths

- All faculties with Ph. D. engaged in active research
- Laboratory recognized for M. Phil. And Ph. D. research work
- 05 Minor Research Project completed and 01 is ongoing
- Well-equipped laboratories
- Consistently good results.

➤ Weakness

- Unaided B. S c. III

Opportunities

- To start P. G. Course and
- Short term courses on 'Horticultural Techniques'
- To undertake ethenobotanical preparations (*Churn, Bhasma, Asva, Arista*)
- Preparation of Biopesticides and Biofertilizers.

Challenges

- Organization of a International Conference
- To Introduce a short term courses on 'Plant Horticultural techniques.'



FUTURE PLANS

- To start Post Graduate course
- To help the farmers for checking the soil health card
- To introduce a short term applied courses
- To initiate collaborative and interdisciplinary research activities
- To organize a International Conference
- Commercial Production of Pure Microbial Cultures
- To prepare Biodiversity Register of Tasgaon Jurisdiction

DEPARTMENT OF BOTANY AT A GLANCE

- **Year of establishment:** UG 1982, B. Sc. III 2013, Research Recognition 2013
- **Infrastructure:** Labs 3, Shade House 1
- **Research Instruments:** Laminar Air Flow (Centrally Available), Double Beam Spectrophotometer, Centrifuge, Soil & Water Analysis Kit, Trinocular and Stereoscopic Microscopes.
- **Learning Resources:** Ref. Books 336, Text Books 237, Pract. Books 70, Journals 12, N-LIST Online
- Journals 12, e-books.
- **Working Faculties:** Teaching Staff 05 (03 Ph.D), Nonteaching staff 3.
- **Students profile:** Every year 100% Result 06 students registered for Ph. D.
- **Faculties contributed in designing of curriculum in Shivaji University, Kolhapur:** 03 Research Guides, BOS Members, Paper setters.
- **Results and Students Progression:** : 33 % (07 out of 21)
- **Research Activities:** MRP Completed 05, MRP Ongoing 01.
- **Research Papers Published:** International 43, National 39
- **Conferences/ Seminars and Workshops Abstracted:** International 16, National 44
- **Conferences/ Seminars and Workshops attended:** 58
- **Books Published:** 05
- **Teacher's Achievements:** Awards: 03(1 National), Fellowships 03 National.
- **Remedial Teaching for slow learners:** Yes
- **Evaluation Methods:** Unit Tests, Class Tests, Seminars.
- **Consultancy:** Agriculture, Environment protection and Plantation, Remote Sensing and Coastal Ecology, Identification Cultivation and Conservation of Medicinal Plants, Organic Farming, Cropping Pattern, Irrigation Methods, Bio control and Pest Management, Supply of Pure Culture of *Trichoderma* and Isolates of *Fusarium*.
- **Interactive teaching Methods:** PPT Presentation by LCD Projector, Surprise Test, Group discussion, Seminar, Lecture, Use Of Charts Slides, Models, Field visits.
- **Student's Achievements:** 1st and IIIrd Prize winner in State Level Competition.
- **Conference/ Workshop Organized:** 01 National (Interdepartmental) 02 Seminars University Level.
- **Innovative Activities:** New Horizon, Green College Project- Women Park, Collection and Preservation of medicinal plants.
- **Departmental Strengths:** All faculties with Ph. D. engaged in active research, Laboratory recognized for M. Phil. And Ph. D. research work, 05 Minor Research Project completed and 01 is ongoing, consistently good results.
- **Future Plans:**
 - To help the farmers for checking the whole soil health,
 - To introduce a short term applied courses
 - To initiate collaborative, interdisciplinary research activities
 - To organize a International Conference
 - Commercial Production of Pure Microbial Cultures
 - To prepare Biodiversity Register of Tasgaon Jurisdiction



**Thank
you.....**

P.D.V.P. Mahavidyalaya, Tasgaon