

DEPARTMENT OF DRAVYAGUNA VIGYAN

DEPARTMENTAL PROFILE:

'Dravya Guna Vigyan' is a science which deal with pharmacognocny, pharmacology, pharmacy and therapeutic of herbal medicine. It is an important branch of Ayurved; as herbal drug is the main tool of Ayurvedic treatment. Along with theoretical lectures, applied knowledge is given to students through live demonstration of medicinal plants in the herbal garden and museum of raw samples of drugs. Department is also engaged in PG and Ph.D. Programmes.

FACULTY PROFILE :

Name	Qualification	Designation	Experience
Dr. Manasi M. Deshpande	M.D. Ph.D	Professor, H.O.D.	26 years
Dr. S.A. Khilari	M.D.	Asso. Professor	26 years
Dr. V.M. Gokhale	M.D. Ph.D	Asso. Professor	18 years
Dr. V.N. Sawant	M.D. Ph.D(Sch)	Assi. Professor	12 years
Dr. N. B. Nangare	M.D. Ph.D(Sch)	Assi. Professor	10 years

VITAL STATISTICS:

Sr No.	Particulars	Quantity
1.	Space- Department	276.77 sq. meter.
2.	Books in departmental library	132
3.	Models	352
4.	Charts	161
5.	Mega scopes	50

6.	Microscopes	05
7.	Specimen	510
8.	Medicinal plants photographs	250
9.	Frame photographs	10
10.	Moisture balance	01
11.	PH meter	01
12.	Herbal Garden	1.37 Acre

MUSEUM:

Most valuable asset of our department is the departmental museum. More than 500 raw material specimens are preserved and classified in different manners in the museum. It contains Himalayan plants and rare species specimens collected from different regions of the country. Herbarium sheets are also preserved. A reference museum consisting of useful part of the plants with all details is also available in department. The students are motivated to take benefit of departmental herbal garden to identify the species and to understand the morphological characterization of medicinal plants.

DEPARTMENTAL STRENGTH:

- All faculty members are well qualified with good experience of teaching at UG and PG level as well. Two staff members are PhD while 3 staff members are enrolled for the same.
- Departmental library is a rich source of reading material containing many rare and out of print books like *Nighantus*.
- UG and PG students from different college/ institutes, school students and common people regularly visit departmental herbal garden to enrich their knowledge of various plants species. Some of the plant products from herbal garden are also used regularly for preparation of herbal medicines in college pharmacy.

UNIQUE FEATURES:

- The department often participates and exhibits medicinal plants in various exhibitions. It has received special awards from Pune Municipal Corporation for the same.

- Free consultancy regarding Cultivation, Plantation of medicinal plants for interested people is offered by the department.
- The well planned herbal garden that includes several extinct and rare species of flora is unique feature of department. Total no. of species is more than 285 whereas total no. of medicinal plants are more than 1100.
- Departmental faculty actively participates in lectures regarding awareness of Medicinal plants.

ACHIEVEMENTS:

Central Council of Indian medicine, New Delhi honored Prof. Dr. Manasi Deshpande with ‘**Acharya**’ award in 2017. She has also received the ‘**Maha Ayush Kamal Puraskar**’ in 2017 & Award for ‘**Best Research Fellow**’ by Bharati Vidyapeeth in 2015.

EVENTS ORGANISED:

Name of event	Date	Organizer	Funding source
Process & Implementation of Access and benefit sharing mechanism for biological resources.	6 th January	Bharati Vidyapeeth (Deemed to be University) College of Ayurved – Dravyaguna Dept. Pune in association with IASTAM – India and Maharashtra State board of Biodiversity-Nagpur	Symposia was part of ICAAM 2016, (ICAAM was sponsored by Ministry of AYUSH)

RESEARCH ACTIVITY:

- 1) Funded Research Projects: A Major project entitled ‘Validation of traditional Unani plant products and their ingredients for anticancer effect on hepatocellular carcinoma’ is sanctioned grants from Ministry of AYUSH (Govt of India, New Delhi). It is a inter disciplinary research work in collaboration with Bharati Vidyapeeth University Rajiv Gandhi

Institute of Bio-Technology and College of Ayurved. Prof. Dr. Manasi Deshpande is a Co Investigator.

- Minor Funded Projects:

Completed Projects funded by Bharati Vidyapeeth (Deemed to be University) are as follows: -

Sr. No	Project Title	Name of the P.I/ Co.I	Funding Agency	Duration (From_ to_)	Total Financial Outlay
1	Survey and study of the medicinal plants in selected area of Yaval forest region (Jalgaon District) wsr to ethno botanical uses and Ayurvedic pharmacological actions	Dr. Shobha Khilari Dr. Manasi Deshpande	B.V.D. U.	2012-2014	50,000/-
2.	In vivo study of folklore plant Kukutnakhi (Aspidium cicutarium) for its osteoarthritis activity in animal models	DR. Manasi Deshpande Dr. Shobha Khilari	B.V.D. U.	2012-2014	50,000/-
3.	In vitro regeneration and micropropagation of Selected Ayurvedic plants.	Dr. Shobha Khilari	B.V.D. U.	2012-2014	25,000/-
4.	Physico- chemical evaluation of Kasahar choorna from Charakokta Mahakashaya	Dr. Vidya Sawant	B.V.D. U.	2012-2014	15,000/-

- Ongoing Funded Research Projects:

1] Dr. Vivek Gokhale -Evaluation of anticancer effect of aqueous extracts of *Cynodon dactylon* and *Achyranthes aspera* in human cervical cancer cell lines, SiHa [HPV 16] and Hela [HPV 18]

2] Dr. Ninad Nangare - Pharmacognostical and experimental evaluation of controversial plant Murva with special reference to its diuretic activity

2) Research projects for Ph.D. : Completed – 03

3) Research projects for Ph.D. : Ongoing – 04

4) Research projects for M.D. : Completed - 63

5) Research projects for M.D. : Ongoing projects - 11

6) Books: Prof. Dr. Manasi Deshpande has published two text books

- 'Bhaishjya Kalpana' (in Hindi)
- Dravya guna Vigyan (vol 1 & 2 in Hindi).

7) Numbers of Publications:

Dr Manasi Deshpande: 36

Dr Shobha Khilari: 12

Dr Vivek Gokhale: 06

Dr Vidya Sawant: 02

Dr Ninad Nangare: 04

TESTIMONIALS:

Feedback of German doctor Dr. Sharma regarding lectures and practical conducted

Thank you so much for the great honor to have the lectures from 11th to 25th of February 2012 in your institute. You gave us deeply improved knowledge and showed us how effective your methods are working since thousands of years. You ~~care~~ took care for us and enlightened our minds through your friendliness. Let us install and work on the network for Ayurvedic knowledge between India and Germany between Pune and Munich. We did the first step and go on the journey for life long learning. God bless you all.

Shankar N. Rao
20th Pune, 2012

Dr. Ravi Rao feedback for Department museum

Dr. Ravi Rao S
Asst Professor,
Dept. of Dravyaguna
A.A.M.C., Moodbidri
Karnataka.

Department and Museum is very well organized and visit to the institution was fruitful. We are very much thankful to Dr. Nived and Deshpande (H.O.D) for their valuable time and

Feedback of Josu, a researcher from Mondragon university regarding integrative research

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Doing a Research about Ayurvedic medicine
Mondragon University / Florida estate Oxford
suites/rooms Middas co

It is nice to see that using herbs and plants you
can cure many illnesses. that the combination of
them even can cure cancer.

From my side, the mix between Ayurvedic tech
and modern science can help us in our
way of cure diseases.

The explanation Dr Neeta has given me will
help us in the elaboration of our research.

thank you for your time and Kindness

Feedback from common people regarding exhibition

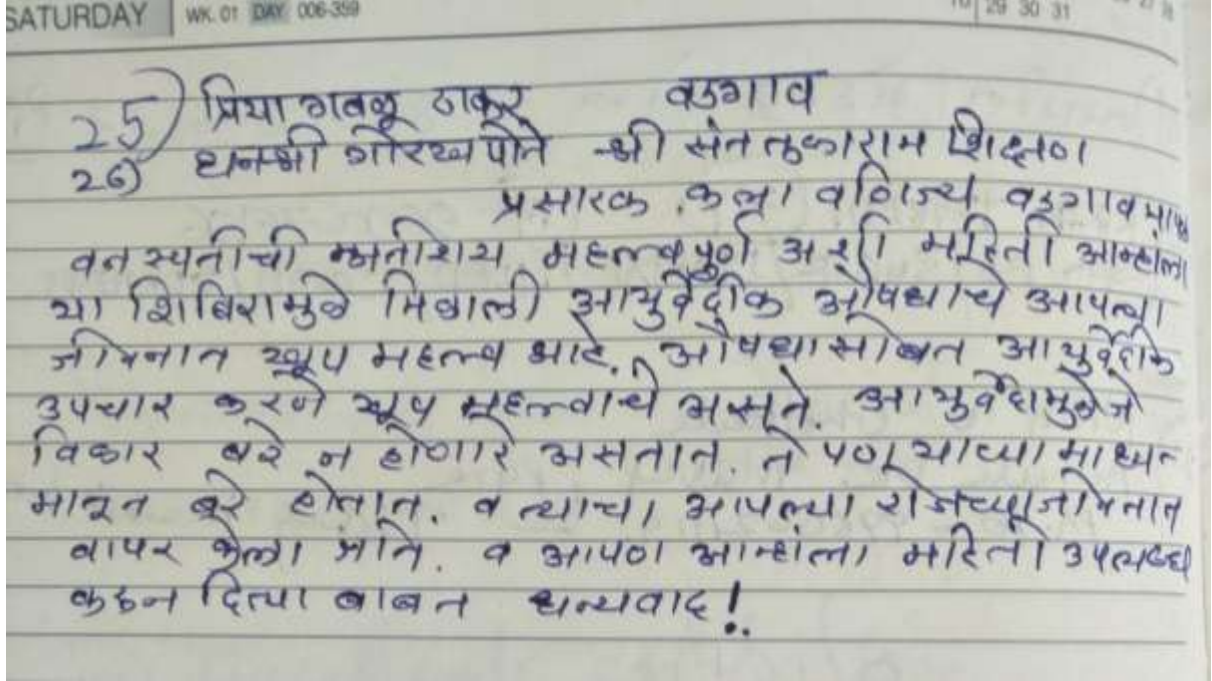


PHOTO GALLERY:

Departmental Museum



Students engaged in Practical

Hon. Secretary of AYUSH visit the department during NAAC inspection



Faculty in discussion room



Visit of Primary school students of Karmaveer School of Bharati Vidyapeeth



Tree plantation at Herbal garden



Catharin Wrinkler from Germany visited Herbal Garden



Symposium organized on the Process & Implementation of Access and benefit sharing mechanism for biological resources.