

## DEPARTMENT OF DRAVYAGUNA VIGYAN

### DEPARTMENTAL PROFILE:

*अनेनोपदेशेन नानौषधिभूतं जगति किञ्चिद्द्रव्यमुपलभ्यते तां तां युक्तिमर्थं च तं तमभिप्रेत्य॥१२॥ [Charak Sutrasthan 26/12]*

According to Charaka there is nothing on the earth which is not medicine. That's why Ayurveda considers all substances as medicine, if used for specific purposes in an appropriate way. Dravyaguna vigyan deals with the principles, qualities, action and therapeutic profiles of the food / drugs substances in Ayurveda. This department also includes modern pharmacology, Pharmacognosy, Pharmaceutics of plants and other materials related to 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
Dr. Manasi M. Deshpande	M.D. Ph.D	Professor & H.O.D.
Dr. Shobha A. Khilari	M.D.	Associate Professor

Dr. Vivek M. Gokhale	M.D. Ph.D	Associate Professor
Dr. Vidya N. Sawant	M.D. Ph.D (Sch)	Assistant Professor
Dr. Ninad B. Nangare	M.D. Ph.D (Sch)	Assistant Professor

### **MUSEUM:**

Most valuable asset of our department is the departmental museum. More than 550 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 Museum



Students engaged in Practical



### 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:

### Awards received

#### Dr. Manasi Deshpande

1. CCRAS AYUSH award for Best Teacher in Literary Research Teaching, 2019
2. Central Council of Indian medicine, New Delhi Vidyarthi Shilpakar 2019 Award from Nanal foundation
3. ‘Acharya’ award in 2017 by C.C.I.M. New Delhi.
4. ‘Maha Ayush Kamal Puraskar’ in 2017
5. Award for ‘Best Research Fellow’ by Bharati Vidyapeeth in 2015.

#### Dr. Prajakta Rakh (MD Scholar) and Dr. Shobha Khilari (Asso. Professor)-

First Prize for Poster Presentation Topic – “Ayurvedic Approach to Skin Care: An Overview” in National Conference Dravya Guna Prabodhini-2019, Government Ayurveda Medical College, Bengaluru February 2019

## EVENTS ORGANISED:

Name of event	Date	Organizer	Funding source
Process & Implementation of Access and benefit sharing mechanism for biological resources.	6 <sup>th</sup> January 2016	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:

### Funded Research Major 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 interdisciplinary 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 (Aspidiumcicutarium) 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 Kasaharchoorna from Charakokta Mahakashaya	Dr. Vidya Sawant	B.V.D.U.	2012-2014	15,000/-

### M.D./ Ph. D. level

- 1) Research projects for Ph.D. : Completed – 03
- 2) Research projects for Ph.D. : Ongoing – 05
- 3) Research projects for M.D. : Completed - 70
- 4) Research projects for M.D. : Ongoing projects - 02

**Books Published:**

Prof. Dr. Manasi Deshpande has published books as-

- 'A text book on Bhaishjya Kalpana in Hindi, Tahagat Prakashan, Pune,2003
- A text book on Dravyaguna Vigyan vol 1 in Hindi. Publisher Chaukhambha Sanskrit prakashan, New Delhi,2007
- A text book on Dravyaguna Vigyan vol 2 in Hindi. Publisher Chaukhambha Sanskrit prakashan, New Delhi, year 2009
- Co- editor, A hand book Ayurved- Sarvansathi, published by World Ayurved congress, November 2006
- Herbal Formulation Development- Traditional and Modern perspectives , 2019
- Editorial Member- Prama- Indian Women Scientists
- Editor- standard protocol for quality assessment of raw material medicinal plants materials on the basis of Rasa

**Numbers of Research Publications:**

Dr Manasi Deshpande: 51

Dr Shobha Khilari: 14

Dr. Vivek Gokhale: 07

Dr Vidya Sawant: 03

Dr Ninad Nangare: 05

**Pharmacovigilance cell**

*Establishment of Peripheral Pharmacovigilance centre under Ministry of AYUSH, New Delhi working since 2018*

**Introduction**

Pharmacovigilance is the science and activities relating to the detection, assessment, understanding and prevention of adverse effects or any other drug related problems. Pharmacovigilance cell functions under the Department of Dravyaguna Vigyan.

**Objectives**

- *To monitor Adverse Drug Reactions (ADRs)*
- *To create awareness amongst health care professionals about the importance of ADR reporting*
- *To undertake surveillance of misleading advertisements of these drugs*

**Sensitization Program carried out by Pharmacovigilance Cell**



- Awareness program regarding importance of ADR monitoring was carried out for
- Special lectures on Pharmacovigilance are taken for internees and under graduate students
- Special awareness programme for Ayurved doctors and practitioners.

## PHOTO GALLERY:

### Herbal Garden



### Tree plantation







Hon. Secretary of AYUSH visit the department during NAAC



Awareness Program in collaboration with Shri Baidyanath, Nagpur







Visit of Primary school students of Karmaveer School of Bharati Vidyapeeth



Tree plantation at Herbal



Catharin Wrinkler from Germany visited Herbal Garden

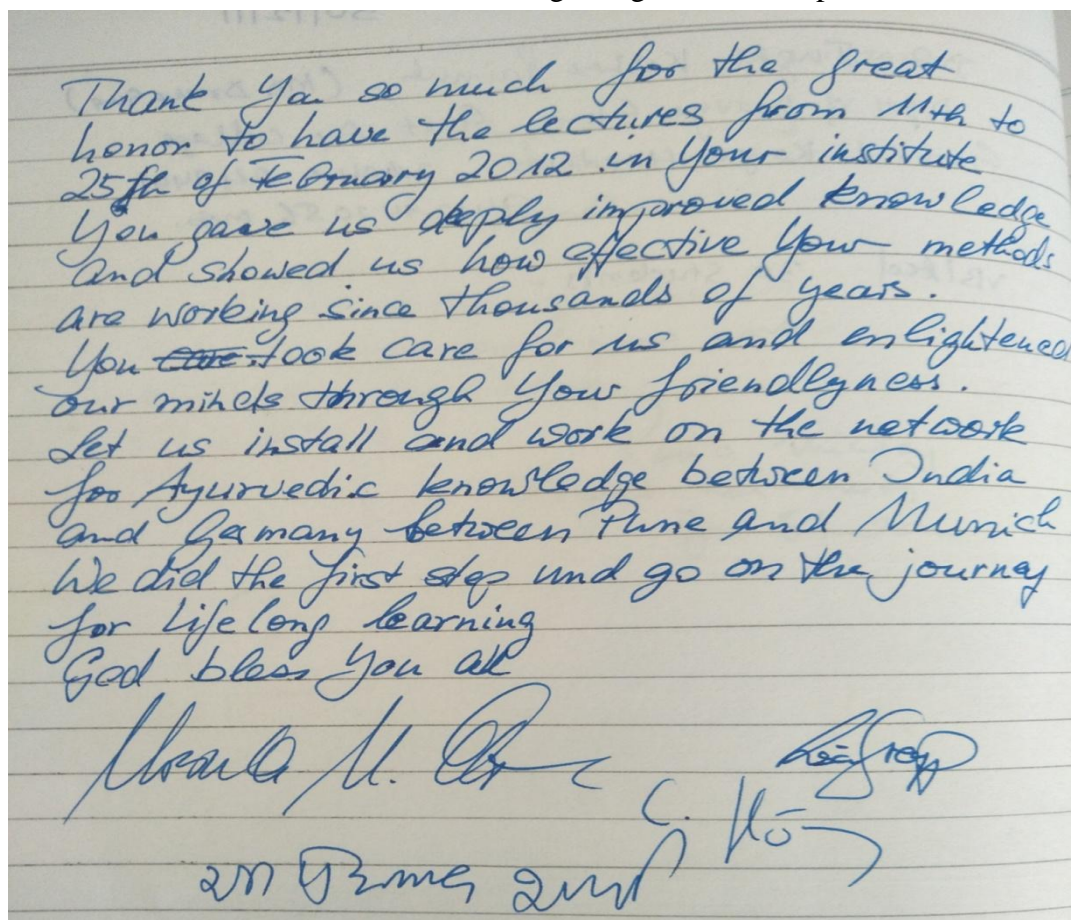




Symposium organized on the Process & Implementation of Access and benefit sharing mechanism for biological resources

### TESTIMONIALS:

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



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

JOSU CORTAZAR  
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Doing a Research about Ayurvedic medicine  
Mondragon University / Florida estate Oxford  
suites/rooms Midds ca

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 techn  
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



## 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 organised.  
Visit to the Institution was fruitful.  
We are very much thankful to Dr. Nizad and  
Deshpande (H.O.D) for their valuable time towards

## Feedback from common people regarding exhibition

SATURDAY WK. 01 DAY 006-359 10 29 30 31

25) प्रिया गवळू ठाकूर वडगाव  
26) धनंजी गोरखपते श्री सैतलकाराम शिक्षण  
प्रसारक कला व विज्ञान वडगाव मुंबई  
वनस्पतींची नमूने शोध महत्त्वपूर्ण अशी भरिती आम्हांला  
या शिबिरामुळे मिळाली आयुर्वेदीक औषधांचे आपल्या  
जीवनात खूप महत्त्व आहे. औषधासोबत आयुर्वेदीक  
उपचार करणे खूप महत्त्वाचे असते. आयुर्वेदामुळे  
विकार बरे न होणारे असतात. ते पण याच्या माध्यम  
मात्राने बरे होतात. व त्याच आपल्या रोजच्या जीवनात  
वापर केला जाणे. व आपण आम्हांला भरिती उपलब्ध  
करून दिल्या बाबत धन्यवाद!