

DEPARTMENT OF DRAVYAGUNA

DEPARTMENTAL PROFILE:

अनेनोपदेशेन नानौषधिभूतं जगतत धिधिद्रव्यमुपलभ्यते तां तां युक्ततमर्थं च तं तमभभप्रेत्य॥१२॥ य

Charaka Sutrasthana 26/12

According to Charaka there is nothing on the earth that 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, actions, and therapeutic profiles of the food/drug 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 demonstrations of medicinal plants in the herbal garden and museum of raw samples of drugs. The department is also engaged in PG and Ph.D. Programmes.

FACULTY PROFILE:

Name	Qualification	Designation
Dr. Manasi M. Deshpande	B.A.M.S., M.D., Ph.D	Professor & H.O.D. Vice Principal
Dr. Ninad B. Nangare	B.A.M.S., M.D., Ph.D	Associate Professor In charge HOD
Dr. Tejaswini Babar	B.A.M.S., M.D. Ph.D	Associate Professor
Dr. Shardul Shivrup Pathak	B.A.M.S., M.D.	Assistant Professor
Dr. Pallavi Pardeshi	B.A.M.S., M.D.	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 parts of the plants with all the details is also available in the department. The students are motivated to take benefit of the 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. Three staff members are PhD.
- The 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 colleges/ institutes, school students, and common people regularly visit the departmental herbal garden to enrich their knowledge of various plant 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 the unique feature of the department. Total no. of species is more than 298 whereas the total no. of medicinal plants are more than 1200.
- Departmental faculty actively participates in lectures regarding awareness of Medicinal plants.

ACHIEVEMENTS:

Awards received

Dr. Manasi Deshpande

1. Vaidya Sundarlal Joshi Smriti Puraskar J.S. Ayurved College Nadiad September 2024
2. P Y Khadiwale – V M Gogate Vanaushadhi Puraskar, 2024.
3. Indian Education Awards 2023, Top 100 influential Educationist in India Education, 2023
4. CCRAS AYUSH Award for Best Teacher in Literary Research Teaching, 2019
5. Central Council of Indian medicine, New Delhi Vidyarthi Shilpakar 2019 Award from Nanal foundation
6. ‘Acharya’ award in 2017 by C.C.I.M. New Delhi.
7. ‘Maha Ayush Kamal Puraskar’ in 2017
8. 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 th 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)
Aushadhyabhiyanam – National Symposium on Dravyaguna and Botanical Expedition for Medical Plants in Tamhini – Sahyadri Mountain Range of Western Ghats	25 th to 27 th September 2023	by Department of Dravyaguna, Bharati Vidyapeeth (Deemed to be University) College of Ayurved, Pune	BVDU
MEDICINAL PLANT EXHIBITION - “Swayampak Gharaatil v Rojchya Vapratil Aushadhi Vanaspatinche Pradarshan”	10-11 Jan 2025	Department of Dravyaguna, Bharati Vidyapeeth (Deemed to be University) College of Ayurved, Pune	BVDU

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 the 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	Total Financial Outlay
1	Survey and study of the medicinal plants in selected area of Yaval forest region (Jalgaon District) wsr to ethnobotanical 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 micro propagation of Selected Ayurvedic plants.	Dr. Shobha Khilari	B.V.D.U.	2012-2014	25,000/-
4.	Physicochemical evaluation of Kasaharchoorna from Charakokta Mahakashaya	Dr. Vidya Sawant	B.V.D.U.	2012-2014	15,000/-
5	Comparative anti-inflammatory activity of selected forms of 'Haritaki' (Terminalia chebula Retz.) plant using DSS-induced ulcerative colitis model	Dr. Ninad Nangare	B.V.D.U	2024-2025	200000/-

M.D./ Ph. D. level

- 1) Research projects for Ph.D. : Completed – 07
- 2) Research projects for Ph.D. : Ongoing – 03
- 3) Research projects for M.D. : Completed - 73
- 4) Research projects for M.D. : Ongoing projects - 09

Books Published:

Prof. Dr. Manasi Deshpande

- 'Hepatitis C Virus (HCV) and the Role of Phytochemicals in the Antiviral Effects of Different Medicinal Plants Against Infection- Book Chapter Anti-Viral Metabolites from Medicinal Plants Springer Nature Switzerland AG 2023-July 2023
- Book Chapter- Culinary to Therapeutics: Ayurved Perspectives by ABS book, Delhi , 2023
- Book Chapter- Trade and Economic Importance of Medicinal Plants: Challenges and Solutions, ABS book , Delhi
- **Prama-** The women scientist - Book Publisher: Publication Division, Shiv Pratap Memorial Foundation VaranasiDec-20
- **Protocol for Rasa sidhant** – Book, as editor, NMPB- New Delhi, Dec-20
- **Herbal formulations development**, Mankarnika, Pune, September 2019
- A text book on **Dravyaguna Vigyan vol 2** in Hindi. Publisher Chaukhambha Sanskrit prakashan, New Delhi, year 2009
- A text book on **DravyagunaVigyanvol 1** in Hindi. Publisher Chaukhambha Sanskrit prakashan, New Delhi,2007
- Co- editor, **A hand book Ayurved- Sarvansathi**, published by World Ayurved congress, November 2006
- A text book on **BhaishjyaKalpana** in Hindi, TahagatPrakashan, Pune, 2003

Dr. Ninad Nangare

- Book Chapter- Trade and Economic Importance of Medicinal Plants: Challenges and Solutions, ABS book , Delhi

Dr. Pallavi Pardeshi-

- Phytochemical of medicinal plants (A Textbook plants of Dravyagunavigyana) 23 ay 2023
- Book Chapter- Role of Phyto biotics in improving health status of birds in poultry farming and to reduce use of Antibiotics and drug-A cost effective analysis

Numbers of Research Publications:

Dr Manasi Deshpande: 80

Dr. Ninad Nangare: 27

Dr. Tejaswini Babar- 19

Dr. Shardul Pathak -11

Dr. Pallavi Pardeshi- 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 healthcare professionals about the importance of ADR reporting & Pharmacovigilance.*
- *To undertake surveillance of misleading advertisements of these drugs*

Sensitization Program carried out by Pharmacovigilance Cell

- Awareness program regarding the importance of ADR monitoring was carried out
- Special lectures on Pharmacovigilance are taken for interneees and undergraduate students
- Special awareness program for Ayurved doctors and practitioners.
- Awareness Program for Patients

More than 32 awareness programs have been conducted by PPvC Bharati Vidyapeeth College of Ayurved, Pune, and 9 adverse drug reactions (ADR) have been reported so far.

Recent Program

1. Pharmacovigilance Awareness program for AYUSH Drugs at BVDUCOA Pune on 10th January 2025.
2. Pharmacovigilance Awareness program for AYUSH Drugs at MAM'S Sumatibhai Shah Ayurvedic Mahavidyalaya Pune on 25th February 2025.

Exhibition

On the occasion of the birthdays of our beloved leaders, Hon'ble founder Dr.Patangrao Kadam Saheb and Hon'ble. Secretary Dr.Vishwajeet Kadam, an **exhibition of all medicinal plants and herbs** was organized in the hospital from 8th January 2023 to 13th January 2023 with the motto "SOCIAL TRANSFORMATION THROUGH DYNAMIC EDUCATION". Green plants and dry species of the useful part of the plant with the detail information were displayed. Postgraduate students with a team of interns guided by teachers of the department of Dravyaguna Vigyana provided information to all visitors.

PHOTO GALLERY:

Herbal Garden



Tree plantation



Tree plantation at Herbal garden

VISITORS AT BHARATI VIDYAPEETH COLLEGE OF AYURVEDA DRAVYAGUNA DEPARTMENT



Hon. Secretary of AYUSH visit the department during NAAC

ABHINAV EDUCATION SOCIETY PHARMACY COLLEGE 1ST YR STUDENTS VISIT AND TESTIMONY



feedback 07/15/2022

Abhilasha Borkar
 Sumita Indalkar
 Lecturers
 AES College of Pharmacy

We are very glad for giving
 the permission for Medical Garden visit
 Visit was very nice, staff was very
 co-operative and provided adequate
 information to our students. This
 information would be very helpful to
 our students in academics.
 Looking forward for such visit
 every year.
 Thank you so much for valuable
 time

Abhilasha
 9208190841 Abhilasha Borkar
 9834822740 Sumita Indalkar





Visit of Primary school students of Karmaveer School of Bharati Vidyapeeth

VISIT PLANET AYURVEDA- FOUNDER- DR VIKRAM CHAUHAN





Awareness Program in collaboration with Shri Baidyanath, Nagpur





Catharin Wrinkler from Germany visited Herbal Garden



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



Bharati vidyapeeth college of Ayurveda, department of Dravyaguna has organized a medicinal plants exhibition at Bharati Vidyapeeth Hospital, Dhankawadi from January 8 to January 13, 2023, to commemorate the birth anniversary of the Hon. Dr. Patangarav Kadam saheb and the birthday of secretary Hon'b Dr. Vishwajeet Kadam. The exhibition was inaugurated by the principal, Dr. Abhijit Patil. The general public, hospital visitors, patients, and students studying Ayurveda and other disciplines visited the exhibition. This exhibition was exhibited with 150 dry specimens, 60 plants, and 98 charts sharing knowledge about Ayurveda, Prakruti, Ashtang Ayurveda, and Ayurvedic herbs. The daily diet's components, including a variety of pulses, spices, grains, millets, and dry fruits, as well as advice on what to eat and what to avoid, were the exhibition's main draws.

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.

Dr. N. Sharma
2012

Feedback from Josu, a researcher from Mondragon University regarding integrative research

JOSU CONTACT
+91 7038 933 165 josu.want@gmail.com

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 technique and modern science can help us in our way of cure diseases.

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

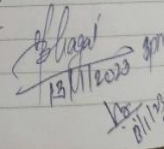
Thank you for your time and kindness


Dr. Ravi Rao feedback for Department museum


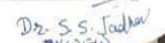
Dr Ravi Rao S
ASSI PROFESSOR,
Dept. of Dravyaguna.
A.A.M.C, Moodbidri
Karnataka.

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

Feedback from common people regarding exhibition

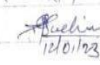

25) Very good information DR. Akshay Deshmukh as well as gave to BPHMS students & the exhibition of Medicine plants & its uses were explained & doubts were cleared in very lucid way.
Thankyou for this exhibition -

 18/11/2023
 Dr. Akshay Deshmukh

Dr. Talsin Benwar - Asst. Professor, RGITBT, DUDU
 The exhibition displays many important aspects of health. All the plants and spices, their pictures and categorization has helped me understand them in a better way. Any person can benefit from such vast display. A well organized items can trigger research interest as well.
 Thank you.


25) अनिराम खान सादरीकरण केने आहे.
 Intern Dr. चांगली माहिती देत आहेत.

 M.A. Patwardhan
 BVCOEW Pune
 26) माहिती अनिराम उत्कृष्टरित्या सादर केनी आहे.
 Intern Dr. कदरत उपयुक्त माहिती मिळती आहे.

 Dr. S.S. Jadhav
 BVCOEW

24) उत्कृष्ट रित्या, सर्व शोषणी द्रव्यांचे अचंभ्यपण धारणीत उपयुक्तता व त्याची आयुर्वेदिक पोषणुसार दिलेली माहिती अनिराम उत्कृष्ट होती. तसेच दर्शवून दिलेले इतर प्रयोगांचे व्याख्यान कुत्रा वापरता हे चांगल्या प्रकारे समजावून सांगितले.
 श्री. निराम पाटील
 Niz

25) प्रिया नातू ठाकरे वडगाव
 26) हान्डी गोरखपते श्री संत लकाराम धोडता प्रसारक कला व विज्ञान वडगाव मुंबई वनस्पतीची माहिती महेत्त्वपूर्ण अशी माहिती आम्हांला या शिबिरामुळे मिळाली आयुर्वेदिक औषधांचे आपल्या जीवनात खूप महत्त्व आहे. औषधासोबत आयुर्वेदिक उपचार करणे खूप महत्त्वाचे असते. आयुर्वेदामुळे विकार बरे न होणारे असतात. ते पण त्यांच्या माध्यम माध्यम बरे होतात. व त्यांचा आपल्या रोजच्या जीवनात वापर केला गेला. व आपण आम्हांला माहिती उपलब्ध करून दिल्याबابت धन्यवाद!

13) मित्रांनो! Very good
 14) आपल्या संभोवतालची उपलब्ध होणा-या वनस्पतींची उपयुक्तता या प्रदर्शनामुळे माहिती झाली व त्याचा उपयोग निर्गती आयुष्य जगण्यासाठी लोडु लोकता माहिती दिव्याबद्दल धन्यवाद.

 Aniket
 14/01/23
 15) Very informative & useful. Few things could be explained more in Hindi & English in the charts along with Marathi.

 Assistant Prof.
 School of Optometry

MEDICINAL PLANT EXHIBITION - "Swayampak Gharaatil v Rojchya Vapratil Aushadhi Vanaspatinche Pradarshan"
Date: January 10-11, 2025

