



Pune District Education Association's

College of Ayurved & Research Centre

(I.D.No. P.U./P.N./AYU./081/1990)

Sector No. 25, Pradhikaran, Nigdi, Pune-411 044 (Maharashtra State), India.

Phone - 020 - 27653965 / 27659578, Fax :- 020 - 27659578, Website - www.pdeaayurvedcollege.edu.in

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Metric 4.2.3

Rachana Sharir Laboratory Details-

Sharir in Ayurveda provides in depth views to concepts like marma and srotas. Learning of Sharir is most useful in further years in diagnosis and management of the diseases.

The primary purpose for teaching Rachana Sharir to students is to provide a thorough understanding of the basic principles of Sharir. Gross and microscopic structure and development of the human body in perspective of ancient and modern sciences, as well as to acquire necessary skills.

In our Institute, students are benefited through theory lectures, practical knowledge with live demonstration of cadaveric dissection in our dissection hall.

Museum of Rachana Sharir Department is maintained with wet specimens of softorgans, muscles, abdominal viscera, arterial supply, etc. Dry specimens of bones are also displayed in the museum.

Speciality-

- Department of Rachana Sharir have a specious dissection hall of 1500 sq. ft. with 10 full size dissection tables & 8 half size demonstration tables.
- Two steel tanks for Cadaver storage are available in storage room. Storage room is separate. Sufficient number of cadavers are available for dissection.
- Total 233 specimens are displayed in Museum.
- 132 charts are displayed in the Museum.
- 61 Models of Human organs & Human torso are displayed in the museum.
- We accept donated bodies for dissection purpose.



H. O. D.

Department of Rachana Sharir
College Of Ayurved And Research Centre
Nigdi, Pune - 44



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Metric 4.2.3

Practical Syllabus of Rachana Sharir

Final M.D. Rachana Sharir Syllabus of Practical training

1. Dissection of at least one cadaver during final part of course.
2. Training of preservation techniques & Embalming
3. Preparation of soft tissue specimens

Distribution of Practical Exam of Rachana Sharir (Final M. D.)

- a) Spotting - 10 Marks
- b) Surface Anatomy- 15 Marks
- c) Dissection- 20 Marks

Pre-MD Rachana Sharir Syllabus- Practical -100 marks

Contents:

1. Practical study of bones
2. Practical study of organs
3. Practical study of surface and radiological anatomy.
4. Shava Vichhedana – detailed dissection of the whole body.



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Metric 4.2.3

UG (I BAMS) Rachana Sharir Syllabus- PRACTICALS

- Shava vichhedana – detailed dissection of the whole body
Line of incision, Dissection technique, Identification of different tools and its Uses, Identification and characteristics of Different layers and its relation
- In Extremities: Dissection of extremities & Identification of related structures
- In Trunk region: Demonstration of visceral relation of thoracic, abdominal and pelvic organ
- In Head Region: Dissection of head,
- Identification of Meninges, Major Sulci and gyri, Superficial origin of Cranial Nerve and venous Sinus.
- Dissection of sensory organs
- Practical study of vital organs
- Practical study of bones
- Brief detailing about body donation, organ donation and its awareness
- Teaching – Learning Method: Cadaveric dissection



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Metric- 4.2.3

Kriya Sharir Laboratory Details-

Kriya sharir is the basic subject of Ayurveda which deals with functions of body. According to Ayurveda dosh, dhatu, and mala are roots of our body. To maintain equilibrium in

Students get theoretical knowledge through lectures and the practical knowledge with live demonstration of Ayurvedic parishan, Haematology & various system examination. Students also perform practical and various examinations on volunteers.

In Kriya sharir laboratory – Ayuvediy parishan -like Prakruti parikashan, Dhatu Sara parikashan , Agni & koshta parikshan ,Nadi Parishan , dosh & dhatu vruddhi kshaya lakshan are performed by students after demonstration.

Modern – Haematology practical (HB estimation, RBC & WBC count, total differential count), Blood group, Bleeding time clotting time and Urine examination are performed by students.

Under human experiments students perform

- 1.CVS examinations - pulse examination, heart sound, blood pressure examination.
2. CNS examinations – Sensory and motor examinations, reflexes etc
3. Respiratory examination- respiratory rate, sounds (bronchial and vesicular) etc

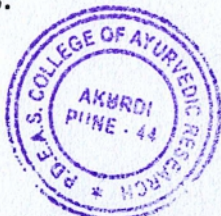
Demonstration of ESR, PCV, blood collection etc given by teachers to students.

Preparation peripheral blood smear and staining of is performed by PG students.

Speciality- Clinical Room –

- ECG examination demonstration
- Heart Sounds & Respiratory sound demonstration.
- Nervous system examination with the reflexes.

Kriya Sharir Museum is maintained with display of various instruments, models and informative charts.

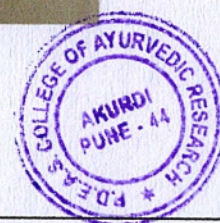


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H.O.D.
Dept. of Sharirkriya
CARC Nigdi, Pune - 44

4.2.3 Kriya sharir Laboratory photos



Principal
P.D.E.A.'S
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Kriya sharir Clinical examination room



Principal
P.D.E.A'S
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Nigdi, Pune - 411 044.





I) Lab Practical list

A) Ayurvedic Practical

- 1) Assessment of Prakriti
- 2) Assessment of Dosha.
- 3) Assessment of Dhatu.
- 4) Assessment of Agni.
- 5) Assessment of Koshta.
- 6) Assessment of Sara.
- 7) Nadi Pariksha.

B) Modern Physiology Practical

- 1) Introduction of laboratory instruments.
- 2) Collection of blood sample.
- 3) Preparation and staining of blood smear.
- 4) Estimation of Haemoglobin.
- 5) Microscopic examination of blood
 - a) Total RBC count b) Total WBC count c) DLC
- 6) Packed cell volume demonstration.
- 7) ESR demonstration.
- 8) Bleeding time, clotting time.
- 9) Blood grouping and Rh typing.
- 10) Urine examination – Physical, chemical tests.

II) Clinical room examination practical

- 1) Examination of cardiovascular system.
 - a) Pulse examination.
 - b) Arterial Blood Pressure measurement.
 - c) Examination of heart sound.
 - d) ECG demonstration.
- 2) Examination of Respiratory system.
 - a) Respiratory rate.
 - b) Breathe sound.
- 3) Examination of nervous System.
 - a) Sensory and motor.





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Metric- 4.2.3

Department of Kriya sharir

UG (I BAMS) KRIYA SHARIR Syllabus- PRACTICAL

1. Demonstrate laboratory equipment (spotting), blood collection, ESR, PCV
2. Estimate haemoglobin, bleeding time & clotting time, blood grouping, WBC, RBC, DLC
3. WBC, RBC, DLC estimation
4. Dhatu sararata parikshana .Prakriti parikshana ,Dosha and dhatu vriddhi kshaya parikshana, Nadi parikshana ,Agni parikshana , Koshtha parikshana
5. Pulse examination, Urine examination
6. Measurement of Blood pressure
7. Perform the procedure Inspection of respiratory system, heart sounds
8. Observe the procedure of ECG
9. Perform the procedure of examining the cranial nerves and reflexes

Pre-MD Syllabus- PRACTICAL

1. Ayurvedic practicals

Assessment of Prakriti

Assessment of Sara

Agni Pariksha

2.Hematology

Hemoglobin estimation

Total RBC count

Total WBC count

Differential leukocyte count

Packed cell volume (PCV)

ESR

Bleeding time

Clotting time

Blood grouping and Rh typing





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3. Urine examination -

Metric- 4.2.3

Physical examination- Specific gravity and reaction of urine

Chemical examination

Albumin test

Sugar test

Ketone bodies

Bile salts and pigments

Final MD Kriya sharir Syllabus- Practical

Ayurvedic practicals

- Assessment of Prakrti, Sara, Dosa & dhatu Vrddhi Ksaya Laksana, Agni Kosta, Sarira Bala through Vyayama Sakti
- Mutra Pariksa, Nadi Pariksa, Anguli Pramana, Satmya Pariksa
- Hematology
- Use and care of Compound microscope
- Histological study of different organs
- Hemoglobin estimation
- Total RBC count, Total WBC count, Differential leukocyte count, Packed cell volume (PCV), ESR, Bleeding time, Clotting time, Blood grouping and Rh typing
- Urine examination- Physical & chemical examination
- Clinical methods of examining cardiovascular system
- Clinical examination of Respiratory System
- Clinical examination of nervous system

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Pharmacognocny (Dravyaguna) Laboratory Details-

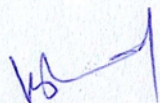
Dravyaguna is one of the subject in Ayurveda that specifically deals with identification, properties & therapeutic uses of medicinal plants. It is very important branch of Ayurveda as drugs are the main tool of Ayurveda treatment.

Facilities available-

- ✓ Pharmacognocny- practical knowledge of macroscopy & microscopic characters
- ✓ for Authentication & identification of original & substitute drugs
- ✓ Pharmacology
- ✓ Raw & Fresh drug identification with live demonstration of medicinal plants
- ✓ Herbarium collection & preparation
- ✓ fresh/ wet & dry/raw drug samples display with information, photos & charts, Slides
- ✓ Various state wise flora study
- ✓ Rasa examination/ determination
- ✓ Phytochemical evaluation of drugs
- ✓ Demo of raw drugs & fresh drugs to in house students & outside students (under student exchange activities)
- ✓ Various state wise flora study
- ✓ Herbarium preparation is done in the department.
- ✓ Knowledge of rare & endangered medicinal plants

All practicals are conducted as per governing council's syllabus, ATP & time table.




Dr. Meenal D. Lad
M. D., Ph. D. (Ayu.)
Prof. & H.O.D.
Dept. of Dravya guna C.A.R.C, Akurdi



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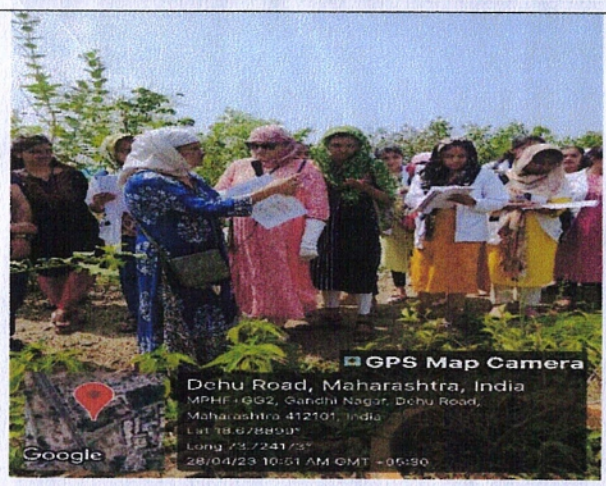
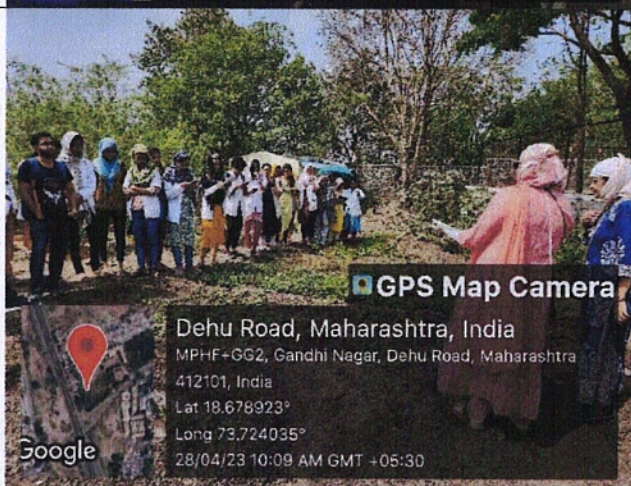
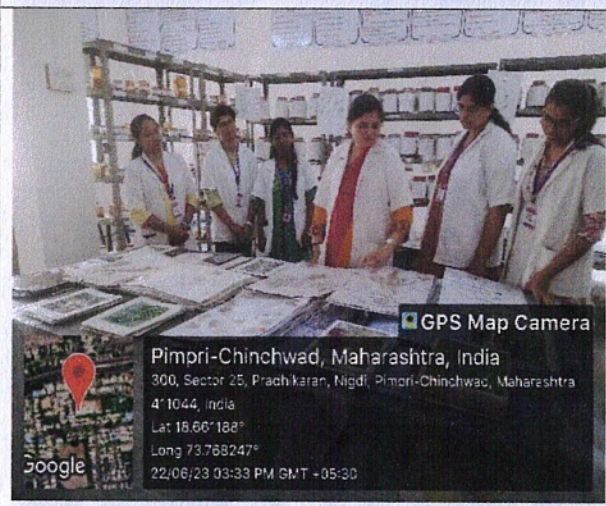
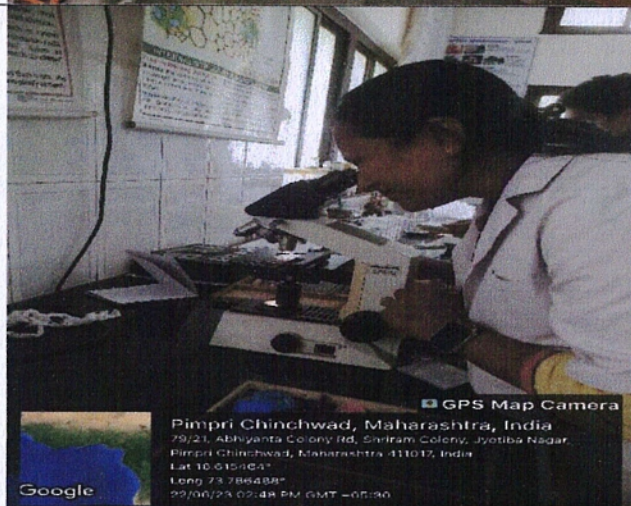
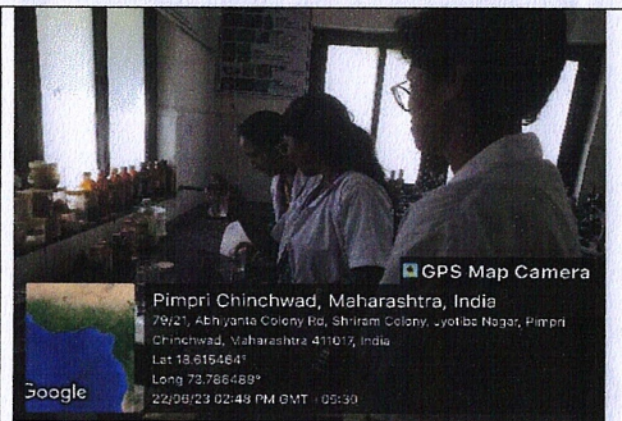
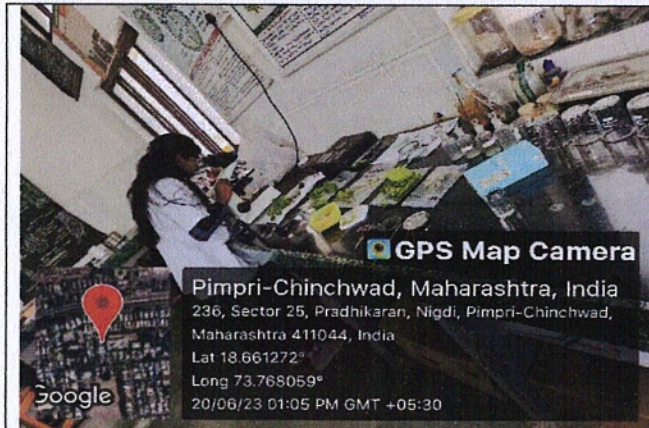
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Photos of Laboratory & Herbal Garden exposures



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Final MD Practical Syllabus-

Syllabus of the Practical training of part two M.D.(Ayu) – Dravyaguna

1. **Study Tours:** Field identification of medicinal plants through at least five local Dravyaguna study tours. Within the state and one study tour out of state and preparation of minimum 50 herbarium sheets along with prayojanya/useful part (raw drug). Field visit should also include demonstration of cultivation practices of important medicinal plants.
2. **Evaluation of Crude Drugs:** Macro and microscopic methods of examining three drugs of each of different useful parts of plants, including their powders.
3. **Phytochemical evaluation of raw material:** Qualitative and Quantitative analysis like foreign matter, extractive (water and alcohol), ash value, acid insoluble ash and TLC separation of various parts of minimum two plants of Ayurvedic Pharmacopoeia of India.
4. **Pharmacology:** Rasa nirdharana/determination by Taste Threshold method of minimum one drug for each of rasas. Observation of animal experimentation models (both in vitro and in vivo) for any five pharmacological activities cited in paper II.
5. **Practical Training-** a) Posting for minimum one month in each of the following units: Quality control laboratory of nearest pharmacy/institution for crude drug identification, adulterants and substitutes & understanding standardization techniques. Experimental Pharmacology Laboratory for developing skill in animal experimentation. b) Regular clinical training in the Teaching hospital for submission of record of Ekala Aushadhi Prayoga (single drug trial/clinic-pharmacological studies.) & Adverse drug reaction (ADR).
1. **Pharmacognostical study of different parts of the plants** with reference to Macroscopic and microscopic study and Qualitative and Quantitative analysis like foreign matter, extractive (water and alcohol), ash value, acid insoluble ash and TLC separation. (Kanda (Guduchi, Apamarga), Patra (Vasa, Markandika), Pushpa (Lavang, Nagapushpa), Phala (Pippali, 4 Bibhitaka), Beeja (Vidanga, Kuchala), Tvak (Arjuna, Kutaja), Mula (Shatavari, Ashwagandha), Niryasa (Hingu, Guggul).
2. **Methods of drugs Standardization and Quality control.**





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Pre-MD Syllabus- PRACTICAL -100 marks Dravyaguna Contents:

01 Field visits for the Identification of important classical medicinal plants

(Minimum two visits to neighboring forest areas)

02 Macroscopic and microscopic identifications of minimum two plants of each of prayojyanga (useful parts of plants)

03 Preliminary study of pharmacopial standards (API) of minimum 5 plants

04 Minimum two experiments on Animals

UG (II BAMS) DRAVYAGUNA Syllabus- PRACTICALS

1. A. Study of Macroscopic, Microscopic characters and Demonstration of organoleptic characteristics and grahya-agrahyatva of following plants and their useful parts.

i. Kanda (stem) - Guduchi or Ashtishrinkhala

ii. Patra (leaves) - Vasa or Kumari

iii. Pushpa (flower and Parts of flower)- Dhataki or Japa

iv. Phala (fruit) – Maricha or Madanaphala or Vidanga

v. Beeja (seeds) – Eranda or Kapikacchhu

vi. Twak (bark) – Kutaja or Arjuna or Ashwattha

vii. Moola(Root)- Punarnava or Chitraka

viii. Nirryasa (exudate) – Guggulu or Mocharasa

ix. Jangama dravya - Madhu or Ghrita.

x. Kanda(Rhizome) dravya – Ardrak or Haridra.

2. Records of Herbarium sheets of 50 medicinal plants Compulsory study tour other state/s for field knowledge and procurement of plant species.





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Rognidan Laboratory Details

The term Rog Nidana means diagnosis of the diseases. It deals with the examination of patient, diagnosis of disease, laboratory investigations for diseased condition. It stresses more on practical knowledge which is based on strong curriculum. Students get hands-on training to develop clinical skill for dealing with patients. The department also teaches the experimental clinical pathology in the laboratory. Post graduate students are trained in the advanced methods of scientific research. They are encouraged to take up research projects which are relevant to the modern era. The departmental teaching learning is involved in developing skills for clear understanding of the basic concepts which develop perfect diagnostic skill in students.

Specialty:

- This department is involved in conducting various laboratory diagnostic investigations, pathological tests for patient's care as well as research purposes of all the fields. A well-equipped central pathology Laboratory is attached with this Department for that particular purpose.
- The department has its own library having 103 traditional and Modern books.
- The department has well established Museum where 150 specimens, 162 Models and 143 charts are kept for teaching facility.
- The department has 792 Instruments and equipment's for carrying out practical and Special tests.
- The department has well equipped student practical lab where all essential experimental clinical pathology practical is carried out.
- There is Tutorial room and clinical room for P.G. students with all basic



HEAD OF DEPARTMENT

ROGNIDAN & VIKRUTI VIDNYAN

AYURVED MAHA VIDYALAYA

& RESEARCH CENTRE, NIGDI, PUNE 44



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teaching learning facilities.

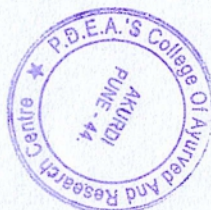
- More than 72 research projects are carried out in our department by PG and PhD scholars till now.
- More than 54 Research articles were published by teachers in National and International peer reviewed journals.
- Rognidan Department participates in various activity like social camps, Health checkup camps, Hb camps for females, 40 up checkup camps regularly during health camps organized by hospital.

Central Pathology Laboratory:

1. Our department have all latest equipment's for carrying out all basic lab tests for our patients and projects of PG students.
2. The Department has 5-part Cell Counter for haematological test, Semi-auto analyser for biochemistry test, Binocular for Peripheral blood smear and binocular to observe microscopic abnormality.
3. All types of Kits and reagents are available for performing serological tests.

Radiology Unit:

1. Our department also have well established Manual Radiology unit with Dark room for performing all type of basic X-Rays of patients.
2. The Radiology department also have ECG machine for patients having chest pain complain and for doing fitness for any type of surgery.



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Final MD Practical Syllabus

Syllabus of the Practical training of part two M.D.(Ayu) – Rognidan & Vikriti Vigyan

1. Academic Visit:

- Study tour is arranged for PG students to various NABL accredited Lab to observe procedure of Haematology, Biochemistry, Serology, Clinical Pathology and Microbiology.
- As well as a study visit is arranged to outsourced Radiology department for exposure to X Ray, C.T. Scan and MRI procedures.
- Also, study tour is arranged to see routine procedure and new advanced techniques of Blood Bank, Serum Institute, Haffkin Institute, ART Centre, Chemotherapy Centre and Isolation Hospitals.

2. Practical Training-

- a) Posting for minimum one week in each of the following units, E.C.G., X Ray, USG, C.T. Scan, E.E.G. scan for learning new advanced diagnostic instruments and technique.
- b) Regular clinical training in the Teaching hospital to learn Basic Fundamental Principles of Laboratory Tests. Like Haematology, Biochemistry, Sero-immunological investigations, Clinical Pathology, Introduction to Microbiology, Histo-Pathology and Aspiration Techniques.

3. **Social Activities:** - Social activities like Blood Donation Camp and Participation in Various diagnostics Camps.

4. **Laboratory Safety Procedures:** - Students are also trained for Lab safety procedure like General laboratory safety such as Dress code policy, General principles of Infection control, Chemical safety, Fire Safety, Mechanical safety and Accidental exposure.




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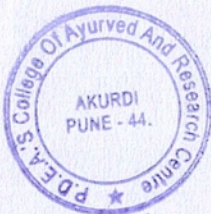
Pre-MD Syllabus- PRACTICAL -100 marks

Contents:

1. Duty in Hospital – OPD and IPD
2. Duty in pathology Laboratory
3. Case taking – 25 Cases
4. Performance of pathology and biochemistry practical – 10 Cases
5. Interpretation of ECG, X-Ray, C,T, Scan, MRI and USG.

Distribution of marks (Practical):

- | | | |
|---|---|----------|
| 1. Case Record (25 Cases) | - | 10 Marks |
| 2. Bed side clinical case taking | - | 20 Marks |
| 3. Long Case | - | 20 Marks |
| 4. Short Case | - | 10 Marks |
| 5. Laboratory Practicals | - | 20 Marks |
| 6. Interpretation of ECG, EEG, X-Ray, CT Scan, MRI and USG – 10 Marks | | |
| 7. Laboratory experimental records - | | 10 Marks |
| 8. Viva voce | - | 20 Marks |



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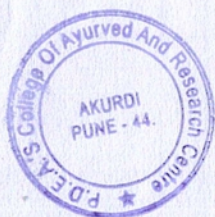
UNDERGRADUATE (II BAMS) ROGNIDAN SYLLABUS- PRACTICALS

I] Laboratory Practical -

1. Fundamental Principles of Laboratory Tests
2. Haematology
3. Urine Examination
4. Stool Examinations
5. Demonstration of Sputum Examination
6. Demonstration of Semen Examination
7. Biochemical Examination – (Demonstration)
8. Demonstration of different Staining techniques in microbiology
9. Demonstration of Sero-immunological Investigations RA and Widal
10. Laboratory Record – Maintenance of Laboratory record book.

II] Bed Side Practical (Clinical Methods) -

1. Introduction and demonstration of clinical methods (General and Systematic Examinations)
2. Practical demonstration of examination of Roga based on Pancha Nidana
3. Demonstration of Instruments used for clinical examinations.
4. Practical records of Clinical examination of at least 20 long cases in IPD including Atur-bala-Pramana Pareeksha.
5. Practical records of Clinical examination of at least 20 Short cases based on Ashta vidha pariksha in OPD
6. Demonstration of ECG, USG and Radio imaging techniques.



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III] Distribution of Marks for final Practical Examination

1. Daily Record – 10 Marks
2. Identification of Instruments – 10 Marks
3. Laboratory Experiments – 20 Marks
4. Short Case – 10 Marks
5. Long Case – 20 Marks
6. Viva Voce – 30 Marks

All practicals are conducted as per governing council's syllabus, ATP & time table.



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4.2.3 Rasashastra and Bhaishajya Kalpana Laboratory Details

Department of Rasashastra and Bhaishajya Kalpana is a branch of Ayurveda which deals with the preparation of medicines by using Kashtaoushadhi (Herbal), Rasoushadhi (Mineral) and Kashta-rasoushadhi (Herbo-mineral). Kashtaoushdhi includes different parts of the herbs both in wet and dry forms. It includes toxic drugs also, but these toxic drugs should undergo specific samskara like shodhana etc. before preparation of any medicines. Rasoushadhi includes minerals, metals, and animal origin drugs. These drugs must undergo proper samskaras like, shodhana, marana, etc. before preparing medicines to avoid toxicity of the drugs.

- The departmental laboratory is well equipped with all instruments which are needed for UG and PG practicals.
- Well maintained museum containing all the specimens of metals, minerals, herbal drugs, pharmacy model, charts etc. for the benefit of students.
- All the samskaras mentioned in the classics are performed in the departmental laboratory to both UG and PG students .
- Identify and authenticate the raw materials required as per the dosage form/ formulations
- Identify and value SOP of each procedure of the practical conducted
- Demonstrate SidhdhiLakshnas of various kalpanas.
- Demonstrate various herbo-mineral dosage forms along with its packaging technique and its therapeutic importance.
- Identify the geological description of minerals: physical parameters
- Different types of formulations i.e. Vati, Vatika, Churna, Bhasma, Kupipakwa rasa, parpati, pottali, Varti, Asavarishta, arka etc. are prepared.
- For both UG and PG's Pharmacy visits are organized during the academic year to know about the pharmacy and industrial management regarding manufacturing.
- Guiding the students to develop the skills of preparing Herbal and Herbo-mineral formulations with competence.
- Guiding the students to identify the ingredients / contents of a formulation with expertise and to strengthen their skills of formulating a recipe.
- Transferring the knowledge of Bhaishajya in all aspects including the knowledge of Good Manufacturing Practices by adopting the advanced technology in the pharmaceutical industry of Ayurveda.
- Working in the direction of developing new formulations that will be strictly on the basis of evidence based research.



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UG (II BAMS) Rasashastra and Bhaishajya Kalpana practical syllabus-

Minimum Twenty five practicals to be performed

1. **Rasa** [Parada] Samanya Shodhana of Parada Kajjali Mugdha rasa
2. **Maharasa Varga** Shodhana of Abhraka Dhanyabhrakanirman Shodhana of Makshika Shodhana of Shilajatu Shodhana of Sasyaka.
3. **Uparasa Varga** Shodhana of Gandhaka Shodhana of Gairika Shodhana of Kasisa Shodhana of Kankshi Shodhana of Haratala Rasamanikya nirman Shodana of Manashil
4. **Sadharana Rasa Varga** Shodhana of Hingula Sodhana of Navasadar Shodhana of Kapardika
5. **Sudha Varga** Shodhana of Shankha Shodhana of Shukti Shodhana of Pravalamula Shodhana of Godanti
6. **Dhatu Varga** Samanya Shodhana of Lauha Shodhana of Mandura Samanya Shodhana of Tamra Shodhana of Naga Shodhana of Vanga Shodhana of Yashada
7. **Kshara Varga** Shodhana of Tanka
8. **Parpati** Preparation of Rasaparpati, Bola Parpati and Swetaparpati
9. **Vishavarga** Shodhana of Vatsanabha, Bhallataka, Kupilu, Dhatturabeeja, Jayapala, Gunja, Chitrakamoola.

PRACTICAL FOR DEMONSTRATION / GROUP PRACTICALS

1. Hingulottha Parada
2. Bhasma: 4 (One from each group) i. Abhrakabhasma, Swarna Makshika bhasma, Tamra bhasma ii. Vanga bhasma, Naga bhasma, Yashada bhasma iii. Mandura bhasma, Kasisa bhasma iv. Shankha bhasma, Kapardika bhasma, Godanti bhasma.
3. Pishti : 1 Pravala pishti, Jaharmohara / Akika pishti, Trina kanthamani pishti, Mukta pishti.
4. Druti : 1 Gandhaka druti.
5. Formulations 4 (one from each group)
 - i. Rasasindura, Swarna vanga, Sameerpannaga rasa
 - ii. Saptamruta lauha, Punarnava mandura, Navayasa lauha
 - iii. Agnitundi vati, Tribhuvana kirti rasa, Sootshekhara rasa, Laghu sutashekhara Rasa
 - iv. Arogyavardhini vati, Laghumalini vasanta rasa, Hinguleshwar rasa, Anandbhairav rasa, Rajapravartini vati.

Practical Bhaishajya Kalpana

Following Practical to be performed- (Minimum one from each category)

Method of preparation, therapeutic uses, dose and anupana of the following

1. Swarasa- Ardraka swarasa, Tulasi swarasa, Kumari swarasa, Vasa putapaka swarasa
2. Kalka- Nimba kalka, Rasana kalka.
3. Kwatha- Punarnavasthaka kwatha, Rasna Sapthakakwatha, Kulattha kwath.
4. Hima- Dhanyaka hima, Sarivadi hima .



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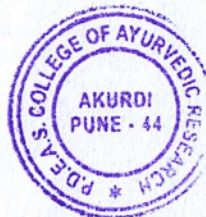
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5. Phanta- Panchakola phanta, YastimadhuPhanta.
6. Pramathya- Mustadi pramathya
7. Mantha- Kharjuradi mantha
8. Aushadh siddha paniya- Shadangapaniya
9. Laksha Rasa.
10. Arka – Yavani arka, Gulab arka, Misreya arka
11. Panaka- Chinchā panaka, Chandan panaka.
12. Sharkara- Banapsha sharkara, Nimbu sarkara.
13. Churna- Sitopaladi Churna, Hinguwashtaka Churna.
14. Gutika- Chitrakadi Gutika, Sanjivani Vati.
15. Guggulu-Triphala Guggulu, Kaishora Guggulu.
16. Avaleha-Chyavanaprashavaleha, Vasavaleha, Vyaghri Haritakiavaleha, Manibadra avaleha.
17. Rasa kriya – Darvi Rasakriya, Guduchi Ghana, Kutaja Ghana.
18. Khanda- Haridra khanda, Narikela khanda, Sowbhagyashunti paka
19. Satva- Amruta satva,
20. Varti- Phala varti, Chandrodaya varthi
21. Lavana- Arka lavana, Narikela lavana
22. Masi- Triphala masi, Mayurpiccha Masi
23. Ksheerapaka- Arjuna ksheerapaka, Rasona ksheerapaka, Shunthi Ksheerpaka
24. Kshara- Apamarga kshara, Snuhi kshara, Ksharasutra. .
25. Manda, Peya, Vilepi, Yavagu, Krishra, Vesavara
26. Yusha – Mudga yusha, Saptamushtika yusha, Kulattha yusha
27. Aristha- Kutajarishta, Takrarishta .
28. Asava - Kumaryasava, Kanakasava
29. Suktakalpana- Kanji
30. Udaka- Tandulodaka
31. Upanaha- Atasi Upanaha
32. Siktha Taila Nirmaan
33. Malahara- Sarjarasa malahara, Gandaka malahara, Cream, Emulsion.
34. Sneha Kalpana: Sneha Murchhana – Ghrita Murchana, Taila Moorchhana, Ghrita kalpana: Jatyadi ghrita, Triphala ghrita, ksheerashatphala ghrita- Taila kalpana-Panchagunataila, Arkataila, Bala taila, Jatyadi taila.
35. Tailapatana- Bhallataka taila patana, Jayapala taila patana
36. Shodhana- Guggulu, Hingu.

II. Visit of minimum three GMP approved Ayurvedic manufacturing units.



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Pre MD Rasashastra and Bhaishajya Kalpana practical syllabus-

PRACTICAL 100 marks

Contents:

1. Shodhan, Marana, Amritikarana of Rasa Dravya (10 practicals)
2. Preparation of different dosage forms (10 forms)
3. Pharmacopoeial standards of raw and prepared drugs (20 practicals)

Raw Materials

1. Minerals and Metals

Mineralogical Identification

1. Physical form - Crystal and Amorphous
2. Hardness on Moh's scale
3. Brittleness test
4. Fracture and Cleavage
5. Streak test
6. Luster

2 Plant Material

Macroscopic and Microscopic examination

- a. Orgnaoleptic testing
- b. Estimation of Foreign materials
- c. Microbial load
- d. Moisture content
- e. Determination of ash value - total, water soluble and acid Insoluble ash
- f. Specific gravity
- g. Solubility- water and alcohol
- h. Extract values- water and alcohol
- i. TLC
- j. Determination of optical density
- k. Refractive index
- l. Aflatoxins
- m. Limit tests for heavy metals
- n. pH estimation

Prepared dosage forms:

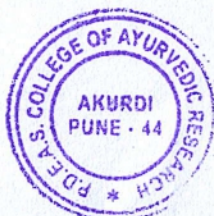
1. Solid dosage forms

Rasaushadhi

- a) Bhasma and PishtiPariksha
- b) Determination of Particle size
- c) Limit tests for heavy metals
- d) Determination of moisture content, specific gravity, pH and acid value.

Kasthaushadhi

a. Powders (Churna)



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1. Particle size
2. Bulk density
3. Solubility
4. Estimation of Foreign material
5. Microbial load
6. Moisture content
7. Determination of ash value - total, water soluble and acid insoluble ash
8. Solubility - water and alcohol
9. Extract values - water and alcohol
10. TLC
11. Determination of Optical density
12. Refractive Index
13. Aflatoxins
14. Limit tests for Heavy metals
15. pH Value estimation

b. Tablets

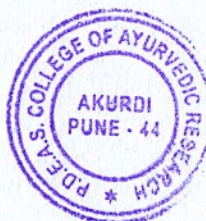
1. Uniformity in weight and size
2. Tablet hardness
3. Tablet friability
4. Tablet disintegration
5. Tablet dissolution

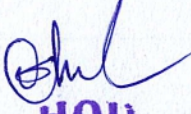
c. Semisolid dosage forms

- a. Moisture content
- b. Sugar content
- c. Microbial load

d Liquids

- pH value
- Specific gravity
- Determination of refractive index
- Acid value
- Viscosity
- Saponification value
- Iodine value




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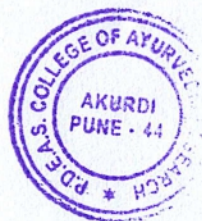
Final MD Rasashastra and Bhaishajya Kalpana practical syllabus-

Practicals:- Minimum 150 Practical are to be performed covering all the dosage forms.

Educational Visits to minimum Five (5) GMP approved Ayurvedic Pharmacies.

Ten days posting in R & D / Production unit in GMP certified Ayurvedic Pharmacy

Minimum 10 clinical cases using different dosage forms are to be studied and recorded for efficacy and ADRs (if any).



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Research Laboratory Details-

Facilities available –

Research and practical training of all experiments for M.D. 1st year students

- ✓ Project work of M.D. 2nd and 3rd year student
- ✓ Project work of Ph.D. scholars
- ✓ Digital Herbariums
- ✓ Photographs of micro sections with Trinocular microscope.
- ✓ Micro sections with microtome
- ✓ Permanent slides of micro sections
- ✓ Pharmacy's raw material and finished product analysis as per pharmacopeia
- ✓ University sanctioned project work
- ✓ Analysis of Genuine samples collected from institutional medicinal plant garden
- ✓ Analytical reports with coloured photographs and compared with API standard values
- ✓ Research books and instrument information charts
- ✓ University approved staff

Central Research Laboratory-

Research work of drug standardization & analysis of raw drugs for research purpose of all the departments is done in CRL with analysis of Pharmacy samples also.

The purpose of research lab is to make researcher expert in drug analysis & finished product analysis

Identification & Authentication of herbal & herbo-mineral drugs is also done in CRL.

Training of Research Methodology and Medical Statistics given to the students teachers, guides




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Pre MD practical syllabus for research methodology –

PRACTICAL 100 marks

I. RESEARCH METHODOLOGY Teaching hours 120

PRACTICAL NAME

1 Pharmaceutical Chemistry

Familiarization and demonstration of common lab instruments for carrying out analysis as per API

2 Awareness of Chromatographic Techniques

Demonstration or Video clips of following:

Thin-layer chromatography (TLC).

Column chromatography (C C).

Flash chromatography (FC)

High-performance thin-layer chromatography (HPTLC)

High Performance (Pressure) Liquid Chromatography (HPLC)

Gas Chromatography (GC , GLC)

4 Pharmacognosy

Familiarization and Demonstration of different techniques related to:-

Drug administration techniques- Oral and parenteral ,Blood collection by orbital plexuses puncturing, Techniques of anesthesia and euthanasia.

Information about different types of laboratory animals used in experimental research Drug identification as per API including organoleptic evaluation

5 Pharmacology and toxicology

Familiarization and demonstration of techniques related to pharmacology and toxicology

6 Biochemistry (Clinical)

Familiarization and demonstration of techniques related to basic instruments used in a clinical Biochemistry laboratory – semi and fully automated clinical analysers, electrolyte analyzer, ELISA techniques, nephelometry.

Demonstration of blood sugar estimation, lipid profiles, kidney function test, liver function test. HbA1, cystatin and microalbumin estimation by nephelometry or other suitable techniques.

Interpretation of the results obtained in the light of the data on normal values.





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7 Clinical Pathology

Familiarization and demonstration of techniques related to basic and advanced instruments used in a basic clinical pathology lab. Auto cell counter, urine analyzer, ESR, microscopic examination of urine.

8 Imaging Sciences

Familiarization and demonstration of techniques related to the imaging techniques. Video film demonstration of C T-Scan, MRI-scan and PET-scan.

9 Clinical protocol development

Final MD Practical Syllabus-

Syllabus of the Practical training of part two M.D.(Ayu) – Dravyaguna

1. **Study Tours:** Field identification of medicinal plants through at least five local Dravyaguna study tours. Within the state and one study tour out of state and preparation of minimum 50 herbarium sheets along with prayojyanga/useful part (raw drug). Field visit should also include demonstration of cultivation practices of important medicinal plants.
2. **Evaluation of Crude Drugs:** Macro and microscopic methods of examining three drugs of each of different useful parts of plants, including their powders.
3. **Phytochemical evaluation of raw material:** Qualitative and Quantitative analysis like foreign matter, extractive (water and alcohol), ash value, acid insoluble ash and TLC separation of various parts of minimum two plants of Ayurvedic Pharmacopoeia of India.
4. **Pharmacology:** Rasa nirdharana/determination by Taste Threshold method of minimum one drug for each of rasas. Observation of animal experimentation models (both in vitro and in vivo) for any five pharmacological activities cited in paper II.
5. **Practical Training-** a) Posting for minimum one month in each of the following units: Quality control laboratory of nearest pharmacy/institution for crude drug identification, adulterants and substitutes & understanding standardization techniques. Experimental Pharmacology Laboratory for developing skill in animal experimentation. b) Regular clinical training in the Teaching hospital for submission of record of Ekala Aushadhi Prayoga (single drug trial/clinic-pharmacological studies.) & Adverse drug reaction (ADR).
1. **Pharmacognostical study of different parts of the plants** with reference to Macroscopic and microscopic study and Qualitative and Quantitative analysis like foreign matter, extractive (water and alcohol), ash value, acid insoluble ash and TLC separation. (Kanda (Guduchi, Apamarga), Patra (Vasa, Markandika), Pushpa (Lavang, Nagapushpa), Phala (Pippali, 4 Bibhitaka), Beeja (Vidanga, Kuchala), Tvak (Arjuna, Kutaja), Mula (Shatavari, Ashwagandha), Nirya (Hingu, Guggul).





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2. Methods of drugs Standardization and Quality control.

Pre-MD Syllabus- PRACTICAL -100 marks

Contents:

01 Field visits for the Identification of important classical medicinal plants

(Minimum two visits to neighboring forest areas)

02 Macroscopic and microscopic identifications of minimum two plants of each of prayojyanga (useful parts of plants)

03 Preliminary study of pharmacopoeial standards (API) of minimum 5 plants

04 Minimum two experiments on Animals

Distribution of marks (Practical)

01 Herbarium sheets (Minimum 25) -10 Marks

02 Practical of macroscopic and microscopic identification of prayojyanga (one part of the plant) (Minimum 5 Plants) - 30 Marks

03 Practical record book of pharmacopoeial standards and animal experimentations (only observations of 2 animal experimentations)-10 Marks

04 Spotting (15 spots each of 2 marks) -30 Marks

05 Viva-voce -20 Marks



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Sector No. 25, Pradhikaran, Nigdi, Pune-411 044 (Maharashtra State), India.

Phone - 020 - 27653965 / 27659578, Fax :- 020 - 27659578, Website - www.pdeaayurvedcollege.edu.in

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Details of 6 Laboratories-

1. Laboratory of Rachana Sharir –

Dissection Hall

Area- 1500 sq.ft

Instruments & Equipment- Dissection tables, Cadaver Preservation tank, Preservative Chemicals, Dissection instruments, Mummy body, X-ray viewing Box, Histology slides, Microscope, Charts, Models etc.

2. Laboratory of Kriya Sharir –

Laboratory Area- 1210 sq.ft

Instruments & Equipment- Microscopes, Glass wares & Chemicals, Instruments for Blood & Urine examination, BP apparatus, Stethoscopes, Charts, Models etc.

3. Laboratory of Dravyaguna –

Laboratory Area- 440 sq.ft

Instruments & Equipment- Microscopes, Dry specimens, Wet specimens, Glass wares & Chemicals for sections & practical, Charts, Spirit lamps, Utensils etc.

4. Laboratory of Rasashastra –

Laboratory Area- 900 sq.ft

Instruments & Equipment- Gas cylinder & Burners, Khalvayantras, Mooshayantras, Mixer, Weighing balance, Spirit lamps, Material for Putas, Steel, Iron & rock utensils for preparations etc.

5. Central Research Laboratory –

Laboratory Area-900 sq.ft

Instruments & Equipment- Microscopes, Burners, Hot air oven, Water Bath, UV Chamber, Refrigerator, Muffle furnace, Dhonas balance, Soxhlet apparatus, Distillation Unit, Tablet disintegration machine, Chemicals & Glass wares for Quality Control Practicals etc.

6. Laboratory of Rognidan –

Laboratory Area- 1134 sq.ft

Instruments & Equipment- Microscopes, Glass wares & Chemicals, Instruments for Blood & Urine examination, BP apparatus, Stethoscopes, Charts, Models etc.




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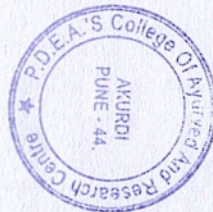
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Department of Rachana Sharir List of Instruments Use in Dissection Hall

Sr. No	Instruments	Quantity
1	Magnifying Glass	01
2	Scissors Straight	03
3	Scissors Curved	03
4	Forceps Artery	04
5	Forceps Allis	04
6	Forceps Plain & Toothed	50
7	B.P Handle	40
8	Enamel Tray Small	01
9	Enamel Tray Big	05
10	Needle Holder	02
11	Bone Chisel	02
12	Enema Pot	01
13	Hammer	01
14	Surgical Blades	15
15	Bone Cutter	02
16	Magnifying Glass	01
17	Silicon Gun	01
18	Aluminum Pointer	01
	TOTAL	136





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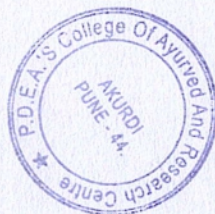
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Department of Rachana Sharir List of Equipment

No	Particulars	Quantity
1	Skeletal Cabinet	1
2	Microscope	2
3	Histology slides	48
4	Buckets	5
5	Plastic tray	4
6	Plastic drum	4
7	Acrylic Frames	60
8	Jars	250
9	Slides for slide projector	45
10	X Ray Films	30
11	X-Ray View Box	3
12	LCD Projector with screen	1
13	OHP Projector	1




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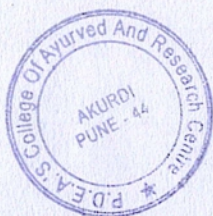
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Department of Kriya sharir Laboratory List of Instruments & Equipment (As per MSR)

Sr. No.	Name of Instrument & Equipment	Qty.
01.	Microscope	58
02.	Westergreen ESR Tube	60
03.	Wintrobe ESR Tube(Hematocrit tube)	60
04.	Haemocytometer	60
05.	Haemometer	60
06.	Sphygmomanometer	43
07.	Stethoscope	60
08.	Clinical Thermometer	72
09.	Knee Hammer (Clinical Hammer)	60
10.	Tuning Forks	60
11.	Electrocardiograph	01
12.	Stop watch	60
13.	Water Distillation plant	01
14.	Balances	01
15.	Cover slips, glassware, micro slides	Available
16.	Centrifuge with speed control	03
17.	Colorimeter (photoelectric)	03
18.	PH meter (Electric)	01
19.	PH comparator with disc in a batch	01
20.	Refrigerator	01
21.	Newton's color wheel in a batch	01
22.	Sterilizer	05
	Total	671



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Department of Dravyaguna List of Instruments & Equipment in the Pharmacognosy Laboratory

Sr. No.	Description of Article	Quantity available
	Instruments & Equipment	
1	Microscope Monocular	29
2	Microscope Binocular	5
3	Microscope Dissecting	10
4	Digital balance	1
5	Bajaj mixer	1
6	Medico centrifuge	1
7	Rotary microtone	1
8	Physical balance	1
9	PH meter	1
10	UV chamber	1
11	Refrigerator	1
12	Hot air oven	1
13	Dissection box	1
14	Test tube stand	7
15	Steel utensil	2
16	Siever (Gadani)	1
17	Steel cover	2
18	Steel dish	07
19	Holder (Sandashi)	1
20	Lighter	1
21	Steel tray	1
22	Plastic tray	7
23	Vernier calliper	1
24	Micrometer screw gaudge	1
25	Automatic timer	1
26	Stainless steel spatula	10
27	Digital camera	1
28	Distillation apparatus	1
29	Hot plate	1
30	Glass Marking Pencil	2
31	Projector screen	1
32	OHP	1



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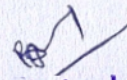


Department of Dravyaguna

List of chemicals in the Pharmacognosy Laboratory

Sr. No.	Description of Article
	Chemicals
1	Anilline Blue (1+1-Cup)
2	Benedicts solution
3	Caffeine
4	Castor oil
5	Copper Sulphate
6	Dichromate solution
7	DPX Mountain
8	Ethanol - 500 ml
9	Fehling's Solution
10	Ferric chloride 5%
11	Formalin
12	Ghee -Govardhan
13	Glacial Acetic Acid
14	Glycerine
15	Glycerol alt glyceryene
16	Gram's Iodine solution
17	Hydrochloric Acid
18	Lab solvent
19	Mercuric chlonde
20	NS- 500 ml
21	Potassium hydroxide.
22	Saesame oil - 3
23	Safranine
24	Sodium hydrochloride
25	Sudan III stain solution
26	Sudan IV- for microscopy.
27	Sulphuric Acid 98%
28	Surgical Spirit
29	Xylene Rectified LR




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Department of Dravyaguna

List of Instruments, Equipment's & Reagents in Pharmacognosy

Laboratory (As per MSR)

Equipments & Instruments

Sr. No.	Essential Equipments and Instruments	Count/ Availability of Instruments/ Equipments
1	Field magnifier	03
2	Compound microscope	19
3	Dissecting microscope	10
4	Microscope	15
5	Slides box with cover slips	Available
6	Blotting/ Filter paper	Available
7	Electronic balance	01
8	Dissection box	Available
9	Enamel trays	Available

Reagents

Sr. No.	Reagents/ Liquids/ Others	Availability
1	Chloroform	Available
2	Alcohol	Available
3	HCl	Available
4	Suiphuric acid	Available
5	Sodium, Potssium hydroxide	Available
6	Benedict solution	Available
7	Sodium nitrate	Available
8	Potassium nitrate	Available
9	Citric acid	Available
10	Iodine	Available
11	Ethyl alcohol	Available
12	Potassium iodide	Available
13	Xylol/ pure xylene	Available



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Details of Equipment and Instruments Available In Rasashastra And Bhaishajya Kalpana Laboratory

Sr No	Instruments/Equipments	Quantity/Availability of instruments/equipments
1	KhalvaYantra Small	10
2	KhalvaYantra Medium	10
3	KhalvaYantra Porcelin	10
4	KhalvaYantra Tapta KhalvaYantra	02
5	Pounding Apparatus (UlukhalaYantra)	10
6	Putas (Different kind)	05
7	Moosha (Crucibles)	30
8	Koshti with Blower	02
9	Yantras DolaYantra	01
10	ValukaYantra	01
11	PitharaYantra	02
12	BhudharaYantra	01
13	Distillation Apparatus and ArkaYantra	03
14	Kupipakva Bhatti	01
15	Wet Grinder	05
16	Mixi	01
17	Juice Extractor	01
18	Refrigerator	01
19	Almiras and Racks for storage	Available
20	Balance (Different Capacities) - Physical Balance	03
21	Chemical Balance	01
22	Electronic Balance	02
23	Heating Device - Gas Stove	Available
24	Heating Device - Hot plate	Available
25	Heating Device - Chulla (Charcoal)	Available
26	Big Vessels and Containers- Brass	Available
27	Big Vessels and Containers- Copper	Available
28	Big Vessels and Containers-Steel	Available
29	Earthen Vessels-Pots	Available
30	Jars(Porcelain) Fermentation Purpose	Available
31	Enamel Trays	Available
32	Spirit Lamp	Available
33	Pressure Cooker	Available
34	Measuring Equipments Different Size (Glass)	Available
35	Pyrometer	Available
36	Thermo meter	Available
37	Vessels - Frying Pan	Available
38	Vessels - Steel Vessel	Available



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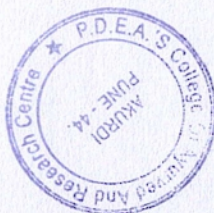
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39	Vessels - Spatula	Available
40	Vessels - Ladles and Spoons	Available
41	Vessels - Knife	Available
42	Vessels - Plates	Available
43	Vessels - Samdamsa Yantra(Tongs)	Available
44	Sieves(Assorted number and size)	Available




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Central Research Laboratory List of Instruments

Sr. No.	Name of the Instrument	Capacity/make/distributor	Quantity
1	MUFFLE FURNACE	23*13*13 cms./Sun bin/Raut	1
2	Hot air oven	45*66*90 cms./	1
3	Oven	1000 watt/Disco/	1
4	Vacuum desiccator		1
5	Tablet disintegration time test apparatus	Dual/V. scientific/Chemicraft	1
6	Rectangular water bath	Pathak electrical works/Chemicraft	1
7	Refractometer Abbe's	Rajdhani scientific instruments /Chemicraft	1
8	Compound microscope	Micron optics/Chemicraft	1
9	pH meter (separate electrodes)	Model no.101/E.I. Products /D. Haridas	1
10	U.V. Fluorescence analysis cabinet	D. Haridas	1
11	Distilled water plant	D. Haridas	1
12	Moisture balance	Rajdhani scientific Instruments/Model no. RSMS 2/D. Haridas	1
13	Soxhlet extraction apparatus	Pathak electrical works /230 volts	1
14	Single pan balance	(0.1-200 gms)/Dhona,s /Raut scientific	1
15	Camera Lucida	Raut scientific	1
16	Eye piece micrometers	Raut scientific	1
17	Stage micrometer	Raut scientific	1
18	Binocular Microscope	Olympus /Ch 20i/Raut scientific	1
19	Tablet Hardness tester	Raut scientific	1
20	Viscometer A,B,C,D,E and F	Ostwald's/Raut scientific	6
21	Thermometer	Dimpee/Raut scientific	1
22	Distillation apparatus	Glass tech	1
23	Tablet friability test apparatus	Veego	1
24	Glass desiccators	Borosil	1
25	Vernier caliper	Mitutoyo	1





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Central Research Laboratory

List of Glassware

DATE of entry	MATERIAL	Capacity/make/distributor
13/03/2009	DESICCATORS	300mm/ Raut Scientific
13/03/2009	VACUUM DESICCATORS	300mm/ Raut Scientific
13/03/2009	Silica crucible	25 ml./ Raut Scientific
13/03/2009	Evaporating dish	80/45 mm/ Raut Scientific
13/03/2009	Pipe clay triangle	Raut Scientific
13/03/2009	Conical flask	250ml/Raut Scientific
13/03/2009	Conical flask	500ml/Raut Scientific
13/03/2009	Measuring cylinder	25 ml/ Raut Scientific
13/03/2009	Measuring cylinder	100 ml/ Raut Scientific
13/03/2009	Beakers	250 ml/ Raut Scientific
13/03/2009	Beakers	500 ml/ Raut Scientific
13/03/2009	Beakers	50 ml/ Raut Scientific
13/03/2009	Pycnometer	10 ml / Raut Scientific
13/03/2009	Museum jars	200×125×125/ Raut scientific
13/03/2009	Museum jar	220×195×80/ Raut scientific
13/03/2009	Watch glass	100 mm/Raut scientific
13/03/2009	Funnel s	75 mm/ Raut scientific
13/03/2009	Cover slips	22×22/ Raut Scientific
13/03/2009	Slide box	75×25/Blue star
21/09/2010	Glass Micro-capillary	Tep tech lab equipment's





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Central Research Laboratory

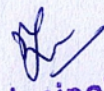
List of Lab-ware

Entry DATE	MATERIAL	Capacity/make/distributor
13/03/2009	ASBESTOS GAUZE	6×6 / Raut Scientific
13/03/2009	TRIPOID STAND	200× 125mm/ Raut Scientific
13/03/2009	Filter paper	Raut Scientific
13/03/2009	Blotting paper	Raut Scientific
13/03/2009	Cotton bundle	Raut Scientific
13/03/2009	Tissue paper	Raut Scientific
13/03/2009	Butter paper	Raut Scientific
03/06/2009	Wash bottle	Raut Scientific
07/06/2010	Gas Lab burners	Brass
16/07/2010	Gas tube	Venus
16/07/2010	level tube	Glass

List of Chemicals

DATE	MATERIAL	Capacity/make/distributor
30/03/2009	SILICA GEL G	500 gm Merk
30/03/2009	SILICA GEL CRYSTALS	500 gm./ Raut Scientific
30/03/2009	Tolune	500 ml/ Raut Scientific
30/03/2009	n-butanol	500ml/Raut Scientific
30/03/2009	Ethyl acetate	500ml/Raut Scientific
30/03/2009	Methanol	500ml/Raut Scientific
30/03/2009	Glacial acetic acid	500ml/Raut Scientific
30/03/2009	Iodine crystals	100 gm/ Raut Scientific
30/03/2009	Ethanol	500ml
22/07/2010	Chloroform merk	500ml/merk
22/07/2010	Methanol L.R.	500 ml
21/09/2010	Acetone L.R.	500 ml
21/09/2010	Safranine	250 ml




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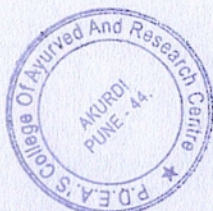
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Department of Rognidan and Vikritivigyan List of Hospital Laboratory teaching learning facility

Sr. No.	Description of Article	Quantity Available
1.	Computer with Birla-tech and Ayu-soft Software	01
2.	Printer	01
3.	Sample Collection Chair	01
4.	Lab Table	01
5.	Plastic Chairs	02
6.	CCTV	01
7.	Cupboards	10
8.	BMW Segregation and disposal bins	03
9.	Semi Auto Analyzer	01
10.	Automatic Haematology Cell Counter	01
11.	Binocular Microscope	03
12.	Monocular Microscope	01
13.	Incubator	01
14.	Hot Air Oven	01
15.	Colorimeter	01
16.	Centrifuge Machine	01
17.	Sterilizer	01
18.	Micro pipettes	03
	a) Micro pipette 200μml	01
	b) Micro pipette 500μml	01
	c) Micro pipette 40μml	01
19.	Chemical Balance	01
20.	Syringe Needle Destroyer	01
21.	Funnel (Plastic)	02
22.	Rubber Teats	03
23.	Test Tube Stand (Wooden)	01
24.	Test Tube Stand (Aluminium) Large	01
25.	Test Tube Stand (Aluminium) Medium	02
26.	Cell Counter (Manual)	01
27.	Colorimeter Filters	04
28.	Weighing Machine	01
29.	Test Tube Holder	04
30.	ESR Stand (Wintrobe)	01
31.	Tourniquet	02
32.	Plastic Tray	03
33.	Aluminium Tray	03
34.	Pipette Stand (Aluminium)	02
35.	Pipette Stand (Plastic) Round	01
36.	Kidney Tray	02
37.	Nichrome Wire Loop	03
38.	Kidney Tray	02





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39	Forceps	02
40	Syringe 2 ml	02 box
41	Syringe 5 ml	02 box
42	Gloves	01 box
43	Cotton Bundle	02
44	Sterile Lancet	02 box
45	Multisticks	01 box
46	Uristicks	03 box
47	Tuberculin Test Syringe	10
Stationary & Other Material in Laboratory		
48	Refrigerator	01
49	Scissor	01
50	Notice Board	02
51	Stamp Pad	02
52	Stapler	01
53	Punching Machine	01
54	S.S. Jar with Glass	01
55	Chart Boards	04
56	Fire Extinguisher	01
57	Daily Register (OPD)	01
58	Daily Register (IPD)	01
59	Monthly Register	01
60	Stock Register	01
61	Dead Stock Register	01
62	Outsourced test Register	01
63	Daily Standard Register	01
64	Critical value register	01
65	CAPA Register	01
66	Internal quality control Register & File	01
67	External quality control Register & File	01
68	Training register	01
69	Departmental Information File	01
70	NABH SOP File	01
71	Calibration Report File	01
72	AMC File	01
73	Safety checklist File	01
74	Audit File	01
75	Report co-relation File	01
76	KPI Files	02
GLASSWARE		
77	Pipettes	03
	a) Pipette 10 ml	01
	b) Pipette 05 ml	01
	c) Pipettes 02 ml	01
78	Test Tubes	30
	a) Test Tubes (Large)	10





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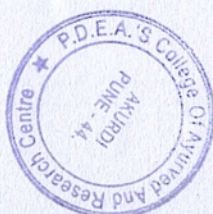
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	b) Test Tubes (Medium)	10
	c) Test Tubes (Small)	10
79	Slide Box	02 box
80	Cover Slip	02 box
81	RBC Pipette	01
82	WBC Pipette	01
83	Typho Widal Slide	01
84	Petry Dish	08
85	ESR Tube (Wintrobe)	06
86	Centrifuge Tube (Plastic)	05
87	Neubaur Chamber	01
88	Lab Thermometer	01
89	Capillary Tube	01 box
90	Plastic Tips for Micropipettes - 01ml	100
91	Plastic Tips for Micropipettes - 200µl	100
92	Neubar Cover Slips	01 box
CHEMICAL & REAGENTS		
93	Field Stain A & B	500 ml x 2
94	Sodium Hypochlorite	500 ml x 01
95	Distilled Water	05 lit x 01
96	Glucose reagent	01
97	Alkaline phosphatase	01
98	SGPT	01
99	SGOT	01
100	Bilirubin	01
101	Cholesterol	01
102	HDL Cholesterol	01
103	LDL Cholesterol	01
104	Triglyceride	01
105	Urea	01
106	Creatinine	01
107	Uric Acid	01
108	Calcium	01
109	Blood Group	01
110	Tuberculin Test	01
111	RA Test	01
112	Widal test	01
113	HIV Kit	01
114	HbsAg Kit	01
115	Pregnancy Kit	01
116	Dengue NS1/IgG/IgM Kit	01
117	Rapid Malaria	01



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HERBAL GARDEN – AT A GLANCE

SN	Particulars	Available
1	Area	3.18 Acres 138806 sq. ft. 12869.05 Sq. Mtr.
2	Total no. of medicinal plants	2133
3	Total no. of species	484
4	Irrigation facility	Available
5	Demonstration Room Area	Available

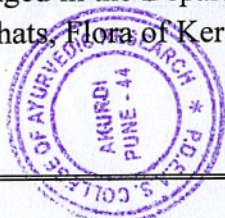
STAFF FOR HERBAL GARDEN

SN	Staff	No. of Existing staff
1	Dravyaguna Specialist	04
2	Botanist	01
3	Gardener	02
4	Multi-purpose worker	02

TOTAL MEDICINAL PLANTS

PLANTS	Total Species	Total Plants
Trees	195	618
Herbs	138	733
Shrubs	63	352
Climbers	66	338
Grasses	19	85
Epiphytes	02	06
Orchids	01	01
Total	484	2133

The students will know every detail of more than 400 medicinal plants from their identification up to the products available in market. Medicinal plant Garden & Herbal Museum of Dravyaguna Department is worth to mention. Especially different area-wise plant specimens are arranged in the Departmental Museum for eg. Flora of Rare Himalayan Plants, Flora of Western Ghats, Flora of Kerala etc.



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TOTAL MEDICINAL PLANTS

(Last five-year data)

	Up to Dec 2018	Up to Dec 2019	Up to Dec 2020	Up to Dec 2021	Up to Dec 2022	Up to July 2023
Total no. of species	411	424	430	437	450	484
Total no. of plants addition and replaced	1855	1871	1914	1987	2032	2133

IRRIGATION FACILITY-

Available in three ways-

- 4) Water Pipe
- 5) Sprinklers-deep irrigation
- 6) Bore well

STAFF FOR GARDEN-

SN	Staff Name	Designation
1	MsMeghanaTurekar	Expert Taxonomist
2.	Dr Lad M.D.	H.O.D
3.	Dr Bhor I.S.	Botanist-Ayurvedic
4.	MrPadaleGyaneshwar	Gardner
5.	Mr. AdipBotre	Gardner
6.	MsSurekha Gaikwad	Helper-Garden
7.	MrsKholam Malan	Helper-Garden

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Total No. of plants: 2133

Total no. of species: 484

List of Medicinal Plants updated Jul 2023

SN	Name	Botanical Name	No. of Plants existing	New Plantation till Jul 2023	Habit
1	Agaru	Aqualaria agalocha	3		T
2	Agastya	Sesbenia Grandiflora	2	2	T
3	Agnimantha	Premna Integrifolia	20	5	S
4	Agnimantha	Clerodendron Phlomis	2		S
5	Aina	Terminalia Tomentosa	3		T
6	Ajakarna-Sarjak	Vateria indica	2		T
7	Ajamoda	Carum Roxbarghianum	2		H
8	Ajanvriksha	Ehretia laevis	1		T
9	Akarakarabha	Spilanthus Oleracea	2	5	H
10	Akashnimba	Millingtonia hortensis	1		T
11	Akhuparni	Merremia Emarginata	5		H
12	Amalaki	Emblia Officinalis	15		T
13	Ambadi	Hibiscus Cannabinus	1		H
14	Amlika	Tamarindus Indica	5		T
15	Amra	Magnifera Indica	7		T
16	Amragandhi Haridra	Curcuma Amada	4		H
17	Amrataka	Spondias pinnata	2		T
18	Anannas	Ananas Comosus	2		T
19	Ananta	Tabernaemontana divaricata	3		S
20	Anjan	Hardwickia pinnata	1		T
21	Anjani	Memecylon umbellatum	1		T
22	Ankot	Alangium salvifolium	3		T
23	Apamarga	Achyranthes Aspera	10		H
24	Aparajita Neela	Clitoria Terneata	8		C
25	Aparajita Shweta	Clitoria Terneata	6		C
26	Aragwadha	Cassia Fistula	8	1	T
27	Aralu	Ailanthus Exelsa	2		T
28	Ardrak	Zinziber Officinale	10		H
29	Arishta	Sapindus Trifoliat	2		T
30	Arishtaka	Sapindus trifoliatus	1		T



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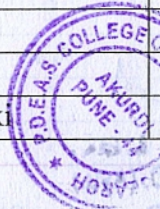
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31	Arjun	Terminalia Arjuna	9		T
32	Arka Rakta	Calotropis Procera	2		S
33	Arka Shweta	Calotropis Gigantica	2		S
34	Arogya Pacha	Trichopus zeylanicus		1	H
35	Ashmantak	Bauhinia Racemosa	3		T
36	Ashmantak Bheda	Bauhinia malabarica	1		T
37	Ashok	Saraca Indica	10		T
38	Ashwagola	Plantago Ovata	1		H
39	Ashwangandha	Withania Somnifera	5	5	H
40	Ashwattha	Ficus Religiosa	7		T
41	Asthisamharaka	Cissus Quandrangularis	4		C
42	Atasi	Linum Usitatissimum	1		H
43	Atibala	Abutilon Indicum	3		S
44	Atibala Bheda	Abutilon persicum		4	S
45	Avartaki	Cassia Auriculata	1	1	H
46	Avartani	Helicterus Isora	4		S
47	Ayapana	Eupatorium Triplinerve	2		H
48	Babbula	Acacia Arabica	5		T
49	Badara	Zizyphus jujuba	6		T
50	Badara Bheda / Ghonta	Zizyphus xylopyra		2	T
51	Bahubeeja	Psidium Pomiferum	5		T
52	Bakuchi	Psoralea Corylifolia	20		H
53	Bakula	Mimusops Elengi	5		T
54	Bala	Sida Cordifolia	2		H
55	Bala	Sida Rhombifolia	1		H
56	Bala	Sida Acuta	4		H
57	Bala Bheda	Abutilon persicum		2	H
58	Bala Bheda / Nagabala	Urena lobata	1		H
59	Bandaka	Dendrophthoe Falcata	5		E/C
60	Banfsha	Viola serpenca	2		H
61	Basamati Pata	Pandanus amaryllifolius		2	G
62	Beejak	Pterocarpus Marsupium	9		T
63	Beejapuraka	Citrus Medica	1		T
64	Bhallataka	Semicarpus Anacardium	4		T
65	Bhandir	Clerodendron infortunatum	2		S
66	Bharangi	Clerodendron Serratum	3	20	S
67	Bhavya	Dillenia indica	2		T
68	Bhrungaraj	Eclipta Alba	5		H
69	Bhumyamalaki	Phyllanthus Urinaria	10		H



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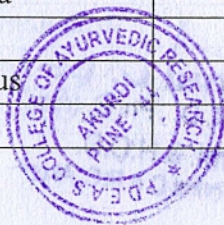
70	Bhutya	Cassine glauca	1		T
71	Bibhitaka	Terminalia Belerica	8		T
72	Bilva	Aegle Marmelos	11		T
73	Bimbi	Coccinia Indica	2		C
74	Boru	Phragmatis karka		1	G
75	Brahmi	Herpestes Monniera	20		H
76	Bruhati	Solanum Indicum	1		H
77	Bruhati Bhed	Solanum Torvum	5		S
78	Burali Vad	Ficus drupacea var. pubescens	1		T
79	Chakramarda	Cassia Tora	20		H
80	Champaka	Michelia Champaka	3		T
81	Champaka Harit	Artabotrys hexapetalus	1		S
82	Chandana	Santalum Album	9		T
83	Chandramula	Kaempferia galangal	2	10	H
84	Chandrashura	Lepidium Sativum	2		H
85	Changeri	Oxalis Corniculata	20		H
86	Chikku	Achras Sapota	1		T
87	Chirabilva	Holoptelea Integripholia	2		T
88	Chiraphala	Zanthoxylum rhetsa	1		T
89	Chitrak	Plumbago Zeylanica	16		S
90	Chitrak Rakta	Plumbago indica	2		S
91	Citronella grass	Citronella	2	3	G
92	Coffee	Coffia Malabarica	1		S
93	Dadima	Punica Granatum	6		T
94	Dagadi Pala	Tridax procumbens	1		H
95	Danti	Baliospermum Montanum	2	3	S
96	Darbha	Imperata cylindrica	2	8	G
97	Daruharidra	Berberis Asiatica	1		S
98	Devababhul	Acacia latiosum	2		T
99	Devchapha	Plumeria alba	2		T
100	Dhanvan	Grewia tilifolia	2		T
101	Dhanyaka	Coriandrum Sativum	2		H
102	Dhataki	Woodfordia Floribunda	2		S
103	Dhattura Krishna	Dhattura Metal	2		H
104	Dhattura Shweta	Dhattura Stramonium	15		H
105	Dhava	Anogesrus latifolia	6		T
106	Draksha	Vitis Vinifera	1		C
107	Dronapushpi	Leucus Cephalotus	2		H
108	Dronapushpi	Leucus stelligera	1		H

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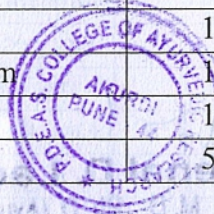
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109	Dugdhika Bruhat	Euphorbia Hirta	10		S
110	Dugdhika Laghu	Euphorbia Thymfolia	10		H
111	Durva	Cynodon Dactylon	15		G
112	Ekadandi Rason	Allium sativum	1		H
113	Ekshu	Saccharum Officinarum	3		G
114	Ela Sookshma	Elettaria Cardamoum	2		H
115	Eranda	Ricinus Communis	8		S
116	Erandakarkati	Carica Papaya	4		T
117	Falgu	Ficus carcia	3		S
118	Gajapippali	Piper chaba	2		C
119	Gambhari	Gmelina Arborea	16		T
120	Gandhaprasarini	Paederia Foetida	4		C
121	Ganer	Cochlospermum religiosum	2		T
122	Gangavati	Blumea Balsamifera	5		H
123	Garjara	Daucus Carota	1		H
124	Gavati Chaha	Cymbopogon Citratus	13		G
125	Gavedhuka	Coix lacrima		2	G
126	Ghansar	Croton Sp		1	T
127	Ginko	Ginko biloba	2		T
128	Gojivha	Launea asplenifolia	2		H
129	Gokshura	Tribulus Terrestris	1	4	H
130	Gokshura Bhed / Shankeshwar	Xanthium strumarium	1		S
131	Gorakshachincha	Adansonia Digitata	1		T
132	Guduchi	Tinospora Cordifolia	60		C
133	Guduchi Bheda	Tinospora sinensis		1	C
134	Guduchi Bheda	Tinospora crispa		1	C
135	Guduchi Pinda	Tinospora sinensis		1	C
136	Guggulu	Comiphora Mukul	6	4	T
137	Guggulu bheda	Commiphora stocksiana	1		T
138	Guggulu Bheda	Commiphora agalocha		3	T
139	Guggulu Bheda	Commiphora roxburghii	2		T
140	Gulbakshi	Mirabilis jalapa	1		H
141	Gunja Krushna	Abrus precatoria	1		C
142	Gunja Rakta	Abrus Precatorius	4		C
143	Gunja Shweta	Abrus Precatorius	4		C
144	Haimavati Vacha Bheda	Trimezia gracilis	1		H
145	Hansaraj	Adiantum Lunaatum	1		H
146	Hanuman Phala	Annona muricata	1		T
147	Haridra	Curcuma Longa	5		H

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148	Haridru	Adina Cordifolia	1		T
149	Haritaki	Terminalia Chebula	7		T
150	Haritmanjiri	Acalypha Indica	20		H
151	Hijjal	Barringtonia acutangula	3		T
152	Hoom	Miliusa tomentosa	2		T
153	Indian Charcoal Tree	Trema orientale	1		T
154	Ingudi	Balanites ingudi	1	1	T
155	Insuline	Costus igneus	10		H
156	Irimeda	Acacia farnesiana	3		T
157	Ishwari	Aristolochia Indica	4		C
158	Ishwari Bheda	Aristolochia ringens		2	C
159	Ishwari Bheda	Aristolochia sp		2	C
160	Jaipal	Croton tiglium / persimilis	1		T
161	Jalakumbhi	Pistia stratiotes		20	H
162	Jalapippali	Phyla nodiflora	5		H
163	Jambir	Citrus Sp		1	T
164	Jambu	Eugenia Jambolana	9		T
165	Jangli musanda	Musanda frondosa	1		S
166	Jati	Jasminum Grandiflorum	3		S
167	Jatiphala	Myristica Fragrance	1		T
168	Jeerak	Cuminum Cyminum	1		H
169	Jeevanti	Holostema Rheedii	1		C
170	Jingini	Lanea coromandelica	1		T
171	Jitasaya	Hamiltonia Suaveolens	2		S
172	Jivak	Malaxis musifera	1		O
173	Jivanti	Leptadenia reticulata	2		C
174	Jyotishmati	Celastrus Paniculata	5		C
175	Kadali	Musa Paradisiaca	1		S
176	Kadamba	Anthocephalus Indicus	3		T
177	Kadayo	Sterculia urens	1		T
178	Kaidarya	Murraya Koenigii	8		S
179	Kailasapati	Couroupita guianensis	2		T
180	Kakamachi	Solanum Nigrum	2		H
181	Kakodumbar	Ficus Hispida	5		T
182	Kalamegha	Andrographis Paniculata	5		H
183	Kalaya	Pisum Sativum	1		H
184	Kamala	Nelumbo nucifera	1		H
185	Kampillaka	Mallotus Philippinensis	2		T
186	Kanadi Jena	Cantharus sp. - caninus /	5		S

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187	Kanchanar Valli	<i>Bauhinia wahlia</i>		1	C
188	Kanchanara	<i>Bauhinia Variegata</i>	10		T
189	Kantakari	<i>Solanum Xanthocarpum</i>	1		H
190	Kapikacchu	<i>Mucuna Prurita</i>	5		C
191	Kapittha	<i>Feronia Elephantum</i>	3		T
192	Kapuri Madhuri	<i>Areva lanata</i>	1		H
193	Karamarda	<i>Carissa Congesta</i>	6		S
194	Karanja	<i>Pongamia Pinnata</i>	16		T
195	Karaveer Rakta	<i>Nerium Indicum</i>	2		S
196	Karaveer Sweta	<i>Nerium Indicum</i>	2		S
197	Karavella	<i>Momordica-Charantia</i>	2		C
198	Karkatashruni Substitute	<i>Garuga pinnata</i>	1		T
199	Karnasphota	<i>Cardiospermum Helicacabun</i>	1		C
200	Karpas	<i>Gossypium Herbaceum</i>	3		S
201	Karpoor	<i>Cinamomum camfora</i>	1		T
202	Karpura Tulasi	<i>Occimum Kilimand Scharicum</i>	10		H
203	Kasamarda	<i>Cassia Occidentalis</i>	1		H
204	Kasha	<i>Saccharum spontanum</i>	2	2	G
205	Kashthadaru	<i>Polyalthia Longifolia</i>	10		T
206	Katuveera	<i>Capsicum Annum</i>	2		H
207	Kaushi	<i>Firmiana colorata</i>	1	1	T
208	Kebuk	<i>Costus Speciosus</i>	1		H
209	Ketaki	<i>Pandanus Tectorius</i>	1		T/S
210	Khadaki Rasna	<i>Tylophora Asthamatica</i>	10		C
211	Khadashing	<i>Radermachera xylocarpa</i>	1		T
212	Khadir	<i>Acasia Catechu</i>	4		T
213	Kharjura	<i>Phoenix sylvestris</i>	1		T
214	Kitamari	<i>Aristolochia bracteata</i>	1		C
215	Kokilaksha	<i>Asteracantha Longifolia</i>	2		H
216	Kokum Peet	<i>Garcinia xanthocymus</i>	1		T
217	Koshamra	<i>Schleichera oleos/trijuga</i>	3		T
218	Kovidara	<i>Bauhinia purpurea</i>	7		T
219	Krishna Haridra	<i>Curcuma caesia</i>	2		H
220	Krishna Musali	<i>Curculigo orchiodes</i>	1		H
221	Krishna Tulasi / Basil	<i>Ocimum Basilicum</i>		4	H
222	Krishnabeeja	<i>Ipomoea nil</i>	1	2	C
223	Kshirini-Rajadani	<i>Manilkara hexandra</i>	3		T

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224	Kuchala	Strychnos Nuxvomica	3		T
225	Kuchandan	Pavonia admenthera	1		S
226	Kukkutnakhi	Tectaria coadunata	1		C
227	Kumari	Aloe Vera	35		H
228	Kumbha	Careya arborea	1		T
229	Kumuda	Nymphaea Stellata	20		
230	Kumudini	Nymphoides hydrophylla	1		
231	Kunti	Muraya exotica	4		S
232	Kurdu	Celosia Argentea	2		H
233	Kusha	Desmostachya bipinnata	2	5	G
234	Kushmanda	Benincasa Hispida	1		C
235	Kusumbha	Carthamus Tinctorius	1		H
236	Kutaj	Holerrhena Antidysenterica	7		T
237	Kutaj Krishna	Wrightia tinctoria	7		T
238	Kutaj Krushna Bhed	Wrightia tomentosa	2		T
239	Kutaja krishna bheda	Wrightia tinctoria var. arborea	1		T
240	Lajjalu	Mimosa Pudica	3		H
241	Lajjalu Vipareet	Biophytum nervifolium	15		H
242	Lakoocha	Atrocarpus lakoocha	2		T
243	Langali	Gloriosa Superba	5		H
244	Lashun Vel	Mansoa alliacea	1		C
245	Latakaranj	Cessalpinia Bondusa	32		S
246	Latakasturi	Hibiscus Abelmoschus	1		S
247	Lavali	Phyllanthus Acidus	1		T
248	Lavanga	Syzygium Aromaticum	1		T
249	Lodhra	Symplocus Racemosus	1		T
250	Madanaphala	Randia Dumetorum	3		T
251	Madayantika	Lawsonia Inermis	7		S
252	Madhavi lata	Hiptagae Bengalensis	1		C
253	Madhooka	Madhuka Indica	3		T
254	Madhooka	Madhooka Latifolia	5		T
255	Madhumalati	Combretum indicum	1		C
256	Madhuparni	Stevia sp.		5	H
257	Madhuyashti	Glycurrhiza Glabra	1		S
258	Mahabhari Vacha	Alpinia calcarata	2		H
259	Mahogany	Swietenia mahogani	1		T
260	Makadalimbu	Atlantia racemosa		1	T
261	Makadshing	Caralluma fimbriata		2	H
262	Makadshingi	Caralluma fimbriata			H

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263	Makhanna	Eural ferox	2		
264	Mallika	Jasminum Sonabae	6		S
265	Manduka Parni	Centella Asiatica	10	5	C
266	Manjishtha	Rubia Cordifolia	5		C
267	Mansarohini	Soymida fibrifuga	1		T
268	Maricha	Piper Nigrum	9		C
269	Markandika	Cassia Angustifolia	1		H
270	Marubaka	Origanum Margorana	2		H
271	Marubaka	<i>Origanum majorana</i>	2		H
272	Mashparni	Phaseolus Mungo	2		C
273	Mayurashikha	Actinopteris dichotoma	1		H
274	Medhashingi	Dolichandrone Falcata	1		T
275	Meeshreya	Anethum Sowa	1		H
276	Meshashrunji	Gymnema Sylvestree	3	2	C
277	Methika	Trigonella Foenumgrossum	2		H
278	Muchakunda	Pterospermum Suberifolium	3		T
279	Mudgaparni	Phasiolus Trilobus	5		C
280	Mulaka	Raphanus Sativus	1		H
281	Murva	Clematis Triloba	2		C
282	Murva	Clematis Gauriana	1		C
283	Murva Bheda	Chonemaorpha fragrans	2		C
284	Mushali	Chlorophytum borivilianum	1		H
285	Musta	Cyperus Rotandus	5		H
286	Nadhihungu	Gardenia Gummiifera	3		T
287	Nadhihungu Bheda	Gardenia jasminoides		1	T
288	Nadi-Bhallataka	<i>Holigarna grahmii</i>		1	T
289	Nagabala	Sida spinosa	1		H
290	Nagakeshara	Mesua ferrea	2		T
291	Nagphani	Opuntia elator	2		S
292	Nala	<i>Arundo donax</i>		1	G
293	Nandivruksha	Ficus retusa	2		T
294	Narikela	Cocos Nucifera	4		T
295	Narkya	Mappia Foitida	1		T
296	Neeli	Indigofera Tinctoria	1		S
297	Nil Chitrak	Plumbago capensis	2		S
298	Nili Bhed	<i>Phyllanthus reticulatus</i>		1	S
299	Nimba	Azadiracta Indica	5		T
300	Nimbuka	Citrus Acida	3		T
301	Nirgundi	Vitex Nigand	15		S



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302	Nirgundi Krushna	Vitex trifolia	15		S
303	Nishpav	Polichos Lablab	12		C
304	Noni bhed	Morinda tomentosa	1		T
305	Pacholi	Pogostemon Pacholi	1		H
306	Padmak	Prunus Cirasoidus	1		T
307	Palandu	Alium Cepa	3		H
308	Palasha	Butea Monosperma	2		T
309	Palasha Lata	Butea superba	2		C
310	Panakula	Ixora Grandiflora	2		S
311	Panasa	Artocarpus Heterophyllus	6		T
312	Panchamasale	All Spices	2		T
313	Papermint Var.			5	H
314	Paribhadra	Erithrina Variegata	2		T
315	Paribhadra bheda	Erythrina stricta	2		T
316	Parijata	Nyctanthus Arborescens	5		T
317	Paripatha	Oldenlandea Corymbosa	5		H
318	Parisha	Thespesia Populnea	4		T
319	Parisha	Ficus arnotiana	1		T
320	Parnabeeja	Kalanchoe Pinnata	10		H
321	Parnayavani	Coleus Amboinicus	2	5	H
322	Parushak	Grewia asiatica	2		T
323	Pashanabheda	Burgenia Ligulata	2		H
324	Patala	Stereospermum Suaveolens	1		T
325	Patala Bheda	Stereospermum coalis	1		T
326	Patala Bheda	Spathodia campanulata	8		T
327	Patala Bheda	Stereospermum tetragonum	6		T
328	Patalgarudi	Cocculus Hirsutus	2		C
329	Patha	Cissempeles Pareira	10		C
330	Patha Raj	Cyclea Peltata	2		C
331	Patol	Tricosanthes cucumerina	1		C
332	Patranjeevak	Putranjiva Roxburghii	8		T
333	Pattanga	Caesalpinia sappan	3		S
334	Peeta Karaveera	Thevetia Nerifolia	1		S
335	Phapata	Pavetta indica		2	S
336	Pinditaka	Tamilnadia uligiosa	1		T
337	Pippali	Piper Longum	20	5	C
338	Pippali Bhed	Piper sarmentosum	2		C
339	Pit kanchanar	Bauhinia tomentosa	1		T
340	Plaksha	Plaksha	3		T



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341	Plaksha	Ficus tinctoria var. gibbosa	1		T
342	Plaksha / Nandivriksha	Ficus rumphii	1		T
343	Plaksha Bheda	Ficus infectoria	1		T
344	Priyal	Bucchnania latifolia	1		T
345	Priyangu	Callicarpa tomentosa	1		T
346	Priyangu Bheda	Aglaia lawii		1	T
347	Prushniparni	Uraria Picta	10		H
348	Puga	Areca Catechu	1		T
349	Punarnava	Boerhavia Diffusa	7	3	H
350	Punarnava Rakta	Trianthema portulacastrum	5		H
351	Punnaga	Calophyllum Inophyllum	2		T
352	Putiha	Mentha Spicata	7		H
353	Rajika	Brassica Juneea	2		H
354	Raktachandan	Pterocarpus Santalinus	5		T
355	Rana Ganja	Lobelia nicotinifolia	1		H
356	Ranjaiphal	Knema attenuata		1	T
357	Rasna	Vanda Roxburghii	1		E
358	Rasna bheda	Alpinia nigrum	1		H
359	Rasna Bheda	Dodonea viscosa	1		S
360	Rasona	Allium Sativum	2		H
361	Rohitak	Tecomella undulata	1		T
362	Rohitaka	Aphanamixis polystachya	5		T
363	Rohitakalata Bheda	Ventilago madraspatensis		4	C
364	Rubber	Rubber Plant	1		T
365	Rudraksha	Elaeocarpus Ganitrus	1		T
366	Sadapushpa	Lochanera Rosea	4		H
367	Saddab	Ruta Graveolens	5		H
368	Sahadevi	Vernonia Cineria	10		H
369	Saireyaka bheda	Barleria lawii	1		H
370	Saireyaka bheda	Barleria sp	1		H
371	Saireyaka Neela	Barleria Cirstita	15		H
372	Saireyaka Peet	Barleria prionitis	25		H
373	Saireyaka Shweta	Barleria cristata var. albida	25		H
374	Saptakappi	Diploclisia glaucescens		1	C
375	Saptaparna	Alstonia Scholaris	6		T
376	Saptarangi	Casearia esculanta	3		S
377	Sariva bheda	Vallisneria spiralis	1		C
378	Sariva Bheda	Decalepis hamiltonii			C



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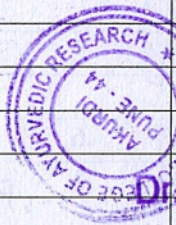
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379	Sariva Bheda/ Amrutapala	Decalepis arayalpathra		1	S
380	Sariva Krishna	Cryptolepis Buchnani	3		C
381	Sariva Shweta	Hemidesmus Indicus	5		C
382	Sarpagandha	Rauwolfia Serpentina	1		S
383	Sarpagandha	Rauwolfia Tetraphyla	6		S
384	Sarshapa	Brassica Alba	3		H
385	Satala	Acacia Concinna	2		T
386	Shaka	Tectona grandis		1	T
387	Shal	Shorea robusta	3		T
388	Shaliparni	Desmodium Gagicum	50		H
389	Shaliparni (Bheda)	Pseudarthria viscida	1	4	H
390	Shaliparni (Bheda)	Flemingia strobilifera		4	H
391	Shallaki	Boswellia serrata	2		T
392	Shalmali	Bombax ceiba	2		T
393	Shalmali - Dev	Bombax insigne	1		T
394	Shalmali Kuta	Ceiba pentandra	3		T
395	Shami	Prosopis Specigera	1		T
396	Shanapushpi	Crotolaria verrucosa	1		H
397	Shankhapusphi	Canscora Decussata	1		H
398	Shara	Sacchrum Munja	2	2	G/H
399	Sharapunkha	Tephrosia Purpurea	2		H
400	Shatapushpa	Foeniculum Vulgarae	3		H
401	Shatavari	Asparagus Racemosus	30		C
402	Shatavari Bheda	Asparagus officinalis		4	C
403	Shati	Hedychium Spicatum	6		H
404	Sheevalingi	Diplocyclos palmatus	1		C
405	Shera	Euphorbia Tirucalli	2		T
406	Shigru	Moringa Oleifera	3		T
407	Shinshapa	Dalbergia Sissoo	9		T
408	Shinshipa bheda	Dalbergia latifolia	4		T
409	Shirisha Shweta	Albizzia procera	6		T
410	Shleshmantak	Cordia dichotoma	2		T
411	Shleshmataka Bheda	Cordia sinensis	1		T
412	Shrisha	Albizzia Lebbeck	4		T
413	Shuhi	Euphorbia Nerifolia	4		T
414	Shyonak	Oroxylum Indicum	17		T
415	Simaruba	Casia Sophora	2		H
416	Simbitaka	Malus pumila		1	T
417	Sinduri	Bixa Orellana	3		S



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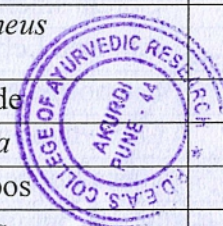
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418	Sitaphalam	Annona Squamosa	4		T
419	Soma	Sarcostemma Brevistigma	2		S
420	Strawberry	<i>Fragaria × ananassa</i>	2		C
421	Surana	Amorphophyllus Campanulatus	1		H
422	Surapunnaga	Ochrocarpus Longfolius	3		T
423	Swarna Jati	<i>Jasminum humile</i>	1		S
424	Swarnakshiri	Argemone Mexicana	4		H
425	Tagar	Valeriana Wallichii	2		H
426	Tailaparni	Eucalyptus Citriodora	2		T
427	Tamalapatra	Cinamomum Tamala	1		T
428	Tamhan	Lagerstomia flos-reginae	2		T
429	Tamhan Bheda	Lagerstomia parviflora	1		T
430	Tanduliyaka	Amaranthus Spinosus	2		H
431	Taruni	Rosa Centifolia	2		H
432	Tavakshira /tavakil / Araroot	Curcuma angustifolia	3		H
433	Teela	Sesamcem Indicum	2		H
434	Tejovati	Zanthoxylum armatum	1		T
435	Tinduka	Diospyros malabarica	2		T
436	Tinduka	<i>Diospyrous melanoxylon</i>	1		T
437	Tinish	Ougenia oogenesis	2		T
438	Tomato	<i>Solanum lycopersicum</i>	2		H
439	Toon	<i>Toona ciliata</i>	1		T
440	Torana / Rajbadar	Zizyphus Rugosa	1		T
441	Trivrut	Operculina terpathum	1		C
442	Tuda	Morus Alba	4		S
443	Tulasi	Occimum Sanctum	3	7	H
444	Tuvaraka	Hydnocarpus pentandra	3		T
445	Twak	Cinamonum Zeylanica	2		T
446	Udumbar	Ficus Racemosa	7		T
447	Upodika/Potaki	Basella rubra	1		C
448	Ushira	<i>Vetiveria zizanioides</i>	7		G/H
449	Vacha	Acorus Calamus	10		H
450	Vacha Bhed / Japanees Sweet flag	<i>Acorus gramineus</i>	2		H
451	Vaijayanti Tulasi	Occimum viride	2		H
452	Vakeri	<i>Molluva stricta</i>		20	C
453	Vansha	Banbusa bambos	6		G/H
454	Vansha Bhed / Japanees Bamboo	<i>Bambusa tulda</i>	1		G/H

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455	Vansha Bheda / Giant Burmese Timber Bamboo	<i>Dendrocalamus asper</i>	1		G/H
456	Vansha Krishna / Black Bamboo	<i>Phyllostachys nigra</i>	1		G/H
457	Vansha Manga	<i>Dendrocalamus stocksii</i>	1		G/H
458	Vansha Polymorpha	<i>Bambusa polymorpha</i>	1		G/H
459	Vanya Tulasi	<i>Ocimum Canum</i>	2		H
460	Vanyashuran	<i>Amorphophyllus sylvesticus</i>	1		H
461	Varahi	<i>Dioscorea Bulbifera</i>	3		C
462	Varahi Bheda	<i>Dioscorea alata</i>		1	C
463	Varuna	<i>Crataeva Nurvula</i>	4	2	T
464	Vasa	<i>Adhatoda Vasica</i>	70		S
465	Vasa Krushna bheda	<i>Strobilanthus Hyinianus</i>	2		H
466	Vata	<i>Ficus Bengalensis</i>	3		T
467	Vatama Vanya	<i>Terminalia Catappa</i>	4		T
468	Vatama Vanya	<i>Sterculia foetida</i>	3		T
469	Vidanga	<i>Embelia Robusta</i>	2		S
470	Vidanga-adultration	<i>Measa indica</i>	1		S
471	Vidari	<i>Ipomoea Digitata</i>	2		C
472	Vikankata Bheda	<i>Gymnosporia rothiana</i>	1		T
473	Vikankata Bheda	<i>Flacourtia jangomas</i>		1	T
474	Vilayati Chicha	<i>Pithocellobium dulce</i>	1		T
475	Virataru	<i>Dichrostachys cinerea</i>	1		T
476	Vishnukranta	<i>Evolvulus Alsinoideus</i>	2	10	H
477	Vrikshamla	<i>Garcinia Indica</i>	3		T
478	Vruddhadaru	<i>Argyria Speciosa</i>	4		C
479	Vuaghra Eranda	<i>Jatropha Curucs</i>	1		S
480	Warang	<i>Kydia calycina</i>	1		T
481	Waras	<i>Heterophragma quadriloculare</i>	1		T
482	Yavani	<i>Trachispermum Amami</i>	1		H
483	Yuthika	<i>Jasminum Auriculata</i>	2		S
484	Zandu	<i>Tagetes Erecta</i>	2		H
			1884	249	
Total			2133		

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Total No. of plants: 2133

Total no. of species: 484

List of Medicinal Plants updated Jul 2023

	No of species	Total no. of plants
Climber	66	338
Epiphytes	2	6
Grasses	19	85
Herb	138	733
Orchids	1	1
Shrub	63	352
Trees	195	618
Total	484	2133

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Details of Herbal Garden & Animal House-

Details of Herbal Garden-

Department of Dravyaguna has attached Herbal Garden with total area of 3.18 Acres (138520.8 sq. ft) with total no. of medicinal plants are 2133 having 484 no. of species including rare & endangered plants of different habitat in the garden.

Herbal garden has demonstration room available and garden is well equipped with irrigation facility for the plants. UG, PG & Ph.D students are benefited through theory lectures & practical & live demonstration of medicinal plants in the herbal garden.

Details of Animal House-

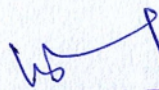
PDEA's College of Ayurved & Research Centre, Nigdi has done collaboration & memorandum of understanding (MOU) with PDEA's College of Pharmacy, Saswad & Pharmacy College of Kharadi for Pharmacology laboratory with Animal house for conducting pharmacological activities on animal models under PG & PG study visits for the same.

Institutional PG students visits & does their experimental dissertation work in following animal houses of pharmacy colleges-

List of Animal Houses where our institutional PG students do study visits-

- 1- PDEA's Seth Govind Raghunath Sable College of Pharmacy
- 2- PDEA's Shankarrav Ursal College of Pharmacy, Kharadi
- 3- P.S. GVPM's College of Pharmacy, Shahada
- 4- National Toxicological centre (NTC) Pune




Dr. Meenal D. Lad
M. D., Ph. D. (Ayu.)
Prof. & H.O.D.
Dept. of Dravya Guna C.A.R.C. Akurdi

Dept of Dravyaguna

Student Name :- Dr. Rashmi Annasaheb Mhaske 132

Animal Experiment
(place of animal experimentation)
Lab

Date
(Dissertation
work duration)

Sign

College of Pharmacy
shahada

1-5.22 to 30.7.22

Rashmi

Experimental work title —

A comparative experimental study of spermatogenic effect of Vruddhadanuls (*Argyria speciosa* Linn) seed and root extracts in Albino rats.

year of Admission
2018-19

year of completion
2022

Name of Student — Dr Rashmi Mhaske

Department of <u>Agadtanta</u>				Register for Animal House visit of PG students for Dissertation Work	
Sr. No.	Date of visit	Duration of work	Name of student	Name of Lab or animal house	Experimental work title
1)	30/8/17	7 days	Dr. Sujata Vankudre	Bharati Vidyapeeth (Deemed to be university) Poona college of Pharmacy Public testing laboratory	A Comparative study of quantitative estimation of strychnine alkaloid in varsha & sharad Ritu.
2)	11/2/17	7 days	Dr. Sujata Vankudre	—	—
3)	31/10/17	10 days	Dr. Roopali Patel	Govt. of Maharashtra State Public health Laboratory, Pune	Comparative Experimental Study on Apple (Malus domestica, Borkh) Before and After Dhavan with Ushad, Lavana and Haridra Jal w.s.r. To pesticidal residues.
4)	6/8/2019	7 days	Dr. Priya Ingie	Chromatography technology & services, pune	A comparative study of quantitative Estimation of Alkaloid neriine from Rakia Karvir (Nerium indicum Linn) in varsha Ritu & sharad Ritu.
5)	8/10/2019	7 days	Dr. Priya Ingie	—	—
6)	22/12/2019	7 days	Dr. Rajashri Joshi	Govt of Maharashtra State Public health Laboratory, Pune	comparative experimental study on Bhendi (Hibiscus esculentus Linn)

Sr. No.	Date of visit	Duration of work	Name of student	Name of lab or animal house	Experiment or work title
6)					before & after Dhavan with distilled water & Haridra Jal w.s.r. to pesticide residue.
7)	5/2/2020	7 days	Dr. Rajashri Jashi	Govt. of Maharashtra State Public Health Laboratory, Pune.	-1-
8)	1/04/2022	7 days	Dr. Chaitali S. Desai	Sciore Research Private Limited, Bhosari, Pune	Controlled experimental study to evaluate the efficacy of Katuk Lepa (Strychnos potatorum Linn) with Padmaragad Lepa in Honey bee sting in Albino Mice.
9)	11/02/2022	7 days	Dr. Sayali S. Khatke	Sciore Research Private Ltd. Bhosari, Pune	Controlled experimental study to evaluate the efficacy of Bodhimukhi Agad Lepa with Shiroveda and Padmaragad Lepa in Honey bee sting in Albino mice.
10)	4/02/2022	7 days	Dr. Rajesh Sambhaji Dhadu	Sciore Research Private Ltd. Bhosari, Pune	Controlled Experimental study to evaluate the efficacy of Haridra Lepa (Curcuma longa Linn) with Padmaragad Lepa in Honey bee sting in Albino mice.



Sr. No.	Date of Visit	Duration of work	Name of students	Name of lab or department	Experiment / Work title
11	01/02/2020	1 day	Nisha Kulkarni	Senior Research Group and Lab, Pune	Controlled experimental study to estimate the efficacy of Sushumna herb (Cordia allamanda) against leishmaniasis with pharmacological assay. Honey bee sting in animal infection site.
12	25/02/2020	2 months	Anurag Yadav	Indian Drug Research Laboratory Pune	In vitro study of antifungal activity of champele Agave against Dermatophytes in comparison with standard control fluconazole.
13	25/02/2020	2 months	Shilpa Gawande	Indian Drug Research Laboratory Pune	In vitro study of antifungal activity of Psidium Agave against Dermatophytes in comparison with standard control fluconazole.
14	9-9-2022	1 day	2 students of 1 st & final yr PG	D. J. Puri college of Pharmacy, Akurdi	Educational visit was organized. Suture chain gave details info of instruments & animal specimens.
15	7-04-2022	1 day	5 PG Students	S. V. M. college, Akurdi	Educational visit to Animal house, Herbal Garden.
	11-03-2025	1 day	BTUG Students	Jyotiba, Nagar Herbal Garden, Mumbai, Pradesh	Educational visit to herbal Garden organized.

Sr. No.	Date of visit	Duration of work	Name / No. of Students	Name of lab / Animal House	Experiment / work title.
	6/2/2019	1 day	PG-09 UG-21	Forensic Science laboratory, Pune.	Visit to lab & It's diff departments, student observe Analytical work techniques like chromatography, Spectroscopy etc.
	22/11/2020	1 day	PG-12 UG-53	Forensic science laboratory Pune.	visit to lab & It's diff departments & observe the techniques used for detection of Poisons etc.
	8/4/2022	1 day	UG-55	Togindar nagar, Herbal garden, Himachal Pradesh	educational visit to herbal garden.
					DR. PHADKE J.J. M.D. (AYU), PGDMLS, Professor & Head of the Dept. Agara Tandra & Vaidharanyavada Vihang, C.A.R.C. Alandi, Pune-44.
					Principal P.D.E.A.S. College of Ayurved And Research Centre Nigdi Pune-411044.