The Department aims at creating medical professionals with sufficient knowledge of Pharmacology & sensitizes them to

- Principles of Ethical Practice
- Principles of Therapeutics
- Principles of Research in Experimental & Clinical Practice

This will ensure Undergraduate students with adequate knowledge of Pharmacology & Therapeutics to enable them practice as ethical General Practitioners.

This will ensure Postgraduate students with significant knowledge of Pharmacology & Therapeutics to enable them to carry out Experimental and / or Clinical Research and the ability to train Undergraduate students and fellow physicians to function successfully as Pharmacologists.
The departmental library is equipped with **165** different titles and **203** books in total. The books are meant for home issue as well as reference.

The books are regularly updated and newer titles added each year so that there is always a readily accessible source of authentic information available to the teaching staff and the students. The departmental library is unique with a range of titles in different aspects of Pharmacology for undergraduate as well as postgraduate curriculum.
Departmental Laboratories

- Clinical Pharmacology & Pharmacy Laboratory
- Experimental Pharmacology Laboratory
- Computer Assisted Learning Laboratory
- Research Laboratory
- Chemical Pharmacology
- PG Laboratory

The laboratories are well equipped for PG Laboratory and research facilities for the undergraduate & PG curriculum. Each of the laboratories has a seating capacity of 75 students at a time.

The computer assisted learning (CAL) laboratory provides various simulations of animal experiments. The effects of various drugs on different parameters can be demonstrated without the need for unduly sacrificing the animals. There are also power point presentations on various topics which the students can access if they want additional information on a particular topic.
The departmental museum is the pride of the Pharmacology Department. The students have access to several copies of a catalog to help them with the drugs displayed.

It contains over a thousand drug samples arranged in a system wise display, which contains the commonest drugs used in that particular system or drug class.

There is a separate section on the ‘History of Pharmacology’ which contains 35 photographs and contributions of the noted scientists.

In addition to this, there are 50 charts, (laminated Charts-29 & laminated photographs-7, graphs-2 in laboratories) illustrating the various aspects of Pharmacology.

There is a section on the sources of drugs that depicts the wet and dry preparations of medicinal plants.(See color plates 1, 2, 3, 4)
Departmental Museum

Color plate 1. A view of the museum showing the section on history of Pharmacology

Color plate 2. A view showing the charts on various concepts in Pharmacology

Color plate 3. A view of the museum showing the section on medicinal plants

Color plate 4. A view of the museum showing the section on drug formulations
The Central Animal House is under the supervision of the Pharmacology Department. Situated within the college campus, it encompasses an area of 360 sq.mt (aprox).

The animal house has been constructed as per the CPCSEA (Committee for the Purpose of Control & Supervision of Experiments on Animals) norms and is registered with the same.

It is staffed with a Laboratory Animal Supervisor (NIN Hyderabad trained) and a Veterinary Doctor, in addition to the regular animal attendants. Facilities available are as follows

- Operating room -1
- Experimental room-1
- Sick/Quarantine room-1
- Breeding room-1
- Office-1
- Store room -1
- Changing room-1
- Working Clean and dirty corridors
- Separate rooms for housing and breeding various animals

SOP’s for cleaning, washing, feeding, breeding and health monitoring of animals are being worked on. Various experiments have been started on rats and mice. Sufficient instruments are available for routine screening and experiments on animals.
Teaching Specialties

- II\textsuperscript{nd} MBBS Level - Pharmacology
  - Pharmacotherapy

- Post Graduate Level - Experimental Pharmacology
  - Clinical Pharmacology
  - Pharmacotherapeutics and Pharmacovigilence
  - Toxicology
  - Recent advances in Pharmacology
  - Basic statistics
  - Drug evaluations & new drug development
  - Clinical trials
  - Research Methodology

\textbf{Result}:

Undergraduate – Jan 2014 – 73.77%

July 2014 – 46%

Postgraduate – There is permitted (By MCI) intake of 2 PG seats from year 2011

Result of 2014 (first batch) is 100%
Problem based learning. Problem based learning is the medium by which clinical correlation is taught to the students. Clinical, real life situations are presented to the students every week from the topics that have been covered in the lectures. This presents them with a challenge and a unique opportunity to hone their skills in Pharmacology. These problems are evaluated in a stepwise fashion by the teachers. Students are taken to the next level according to their capacity, at their own pace. At the end of each problem, there is a ‘take home’ message that every student has to arrive at. Our department has been instrumental in introducing this unique way of teaching students and has even been incorporated into the practical examination.

► Some sessions are taken in the form of Computer Assisted Learning (CAL) sessions. Power point presentations and simulated experiments are a part of this session. We worked hard and developed CAL. Some simulation software were acquired and some others developed in-situ. The Head of the Department being a member of International Pharmacologists Associations was able to procure Power Point Presentations in an exchange program by which we have created a database of presentations on various topics, sufficing the need of all 120 teaching sessions.
Dr. R. P. Limaye

MCI cell coordinator

NAAC cell coordinator (formerly till Nov.2010)

UGC cell coordinator

Academic Committee Phase-II

Member Secretary IEC, RRC & IQAC

Former Member of the library committee and instrumental in the establishment of SOUL software.

Former Member of Hostel Committee

He is also a reviewer for Oxford Journal of Alternative Medicine.

- Member of American college of Clinical Pharmacology since 2001
- Life-Member of IPS (Indian Pharmacological Society)
- Member of IPPS (Indian Physiologist & Pharmacologist Society)
- Referee of Oxford Journal of Alternative Medicine
- Reviewer of many National & International Journals Including JCDR
- Contribution to college development
- Chief editor of booklet on microteaching
- Author to 2 units and editor for 1 section in Self Instructional Material for Distance Education in Hospital Administration
MBA (Shivaji University)
- He is a recognized PG teacher
- Member BOS of BVDU, Pune and BOS of PIMS, Loni

Dr. D.V. Gokhale

Dr. Gokhale has been involved in arranging Microteaching Workshops for the institute.
He is also a member of the IAEC
He is a member of the Indian Pharmacological Society.
He has worked as faculty member of CME- Cell.
Co-editor of microteaching booklet
He has special experience in Ayurvedic medicine, and certificate course in Hospital Administration. He is presently Secretary of Institutional Animal Ethics Committee.
He has chaired a session on ‘Never Screening Methods at the National Seminar on Trends in Pharmacology’ at KLE’s JNMC, Belgaum
Currently he is involved with the research going on in the department
He is a recognized PG teacher

Dr. T.R. Patil

Dr. Patil is in charge of the departmental store.
He is member of the IEC
He is a recognized PG teacher
Dr. K. S. Joshi

Experience:

1. Designing, Conducting, Monitoring Clinical Trials (Phase I – IV)
2. Designing, Conducting, Monitoring BA/BE studies
3. Conducting CMEs in pharmacology and Clinical Nutrition
4. Medico marketing: Product management, Training, Promotional, scientific literature designing and drug monograph designing
5. Liaisoning with FDA, EMEA and DCGI.
6. Undergone extensive GCP Training:
   a. 1998: In House Criticare Laboratories, a division of Recon Ltd.
   b. 2000: In House: Han Ul Medizin Pvt. Ltd.
   c. 2002: GCP Seminar and Workshop organized by Express Pharma Pulse Seminars for pharmaceutical excellence
   d. 2003: International workshop on Clinical Data Management, Institute of Biotechnology and Bioinformatics, University of Pune.
   e. 2007: Seminar on PET and regulatory requirements for CTA Submission in EU. TFS, Trial Form Support, Sweden. Mumbai.
Dr. R. P. Limaye

Older Publications:-

1. The perception of Final Year B. Pharmacy Students towards Animal Experimentation And EX-Pharma (A Demonstration Software) in experimental Pharmacology
   Ghaisas M.M., Limaye R.P., Mandre V.V, Rane P.M. and Deshpande A.D.

2. Trends in Antihypertensive Drugs Prescribing Pattern in Urban Area
   Ghaisas M.M., Limaye R.P., Deshpande A.D.
   Current pharma research journal Vol. 2 Issue 1 May 2007 (Page No.43-51)

3. Use of Aspirin and Lipid lowering agents in hypertensive patients.
   Ghaisas M.M., Limaye R.P., Deshpande A.D.
   Current Pharma research journal Vol. 2 Issue 03 Nov. 2007 (Page no. 50-57)

4. Antiulcer Activity of Colebrookea oppositifolia Sm
   M.M. Ghaisas, Surbhi Sharma, GP Ganu, & R. P. Limaye
   Research Journal Pharmacology and Pharmacodynamics 2010 2(1) (Page no. 54-58)

5. Effect of Calotropis Gigantea on clonidine & haloperidol induced catalepsy
   Ghaisas M.M., Bulani V.D., Suralkar A.A., Limaye R.P.
   Pharmacology on line 3:484-488 (2009) ISSN: 1827-8620

6. Anxiolytic Effect of a Methanolic Extract of the Embelia ribes Burm F. In Mice
   M.M. Ghaisas, A.D. Wadikar, T.B. Gulati, and R. P. Limaye

7. Immunomodulatory activity of aqueous extract of carica papaya linn leaves
**Latest Publication 2013-2014:-**

8. Action of Basella Alba Ethanolic Extract on Calcium Oxalate crystals in vitro  
   Sudhir Sase, **R. P. Limaye**, Navneet Soni, Sudin Gaikwad  
   Page No. 1343 -1346


10. Assessing impact of Computer Assisted Learning (CAL) on cognitive Perception- A Study in Medical College Students.  
    Naringrekar Sonali, **Limaye RP**, Khandale Mashushree, Gokhale DV, Grover Neeta, Patil T.R.  
    *Research Journal of Pharmaceutical, Biological and Chemical Sciences*  
    ISSN: 0975-8585 July-August 2014 5(4) Page no.600 to 604

**Dr. D. V. Gokhale**

**Older Publications:-**

1. Effects of H1 - receptors antagonists in antidepressant tests in rats.  
   C.C.Khanwelkar, **D.V. Gokhale**, A.V. Sontakke, and Sunita Patil  
**Latest Publication 2013-2014:-**

2. Zonisamide- A review of the Clinical and Experimental evidence for its use in Parkinson’s disease

3. Assessing impact of Computer Assisted Learning (CAL) on cognitive Perception- A Study in Medical College Students.
   Naringrekar Sonali, Limaye RP, Khandale Mashushree, **Gokhale DV**, Grover Neeta, Patil T.R.
   Research Journal of Pharmaceutical, Biological and Chemical Sciences
   ISSN: 0975-8585 July-August 2014 5(4) Page no.600 to 604

**Dr. T. R. Patil**

**Latest Publication 2013-2014:-**

1. Zonisamide- A review of the Clinical and Experimental evidence for its use in Parkinson’s disease

2. Carica Papaya Leaf Extracts- An Ethnomedicinal Boon
   International Journal of Pharmacognosy and Phytochemical Research 2014: 6(2); 260-265 ISSN: 0975-4873 Pages No. 260-265
3. Assessing impact of Computer Assisted Learning (CAL) on cognitive Perception- A Study in Medical College Students.

Naringrekar Sonali, Limaye RP, Khandale Mashushree, Gokhale DV, Grover Neeta, Patil T.R.

Research Journal of Pharmaceutical, Biological and Chemical Sciences

ISSN: 0975-8585 July-August 2014 5(4) Page no.600 to 604

Dr. S. A. Shetti

Latest Publication 2013-2014:-

1. MH Sumana, H Nagabushan, Santoshkumar A Shetti, NS Shashikumar.

   Prescription analysis of drugs used in In-patients, department of medicine at medical College teaching hospital, Mandya.

   International Journal of Universal Pharmacy and Life Sciences 2013;3(6) :40-47

2. MH Sumana, H Nagabushan, NS Shashikumar, Santoshkumar A Shetti

   Assessment of Knowledge of Pharmacovigilance among healthcare professionals at medical college teaching hospital, Mandya.

   International Journal of Universal Pharmacy and Life Sciences 2013; 3(3) :69-77

Mr. S. R. Pendhari

Latest Publication 2013-2014:

1. A study on the Drug Utilization Trends in the cardiovascular Emergencies in a Tertiary Care Hospital

   S.R. Pendhari, Dr. Chaudhari, S.R.Burute

Dr. Navneet Soni

**Latest Publication 2013-2014:**

1. Action of Basella alba Ethanolic Extract on Calcium Oxalate crystals in vitro
   
   Sudhir Sase, R. P. Limaye, **Navneet Soni**, Sudin Gaikwad
   
   
   Page No. 1343 -1346

**Completed Project**

1) A study of topiramate induced antipsychotic effect on experimental animals.

   Dr. D.V. Gokhale, Dr. R. P. Limaye, Dr. Neeta Grover, Dr. T. R. Patil
   
   Ref. No. BVUMC&H/ Sangli/ IAEC/ 01 / 10

2. A study to assess the effect of calcium on the anti-inflammatory activity of etoricoxib in albino rats

   Dr. S. G. Naringrekar, Dr. D. V. Gokhale
   
   Ref. No.BVDUMC&H/CAH/IAEC/2011-12/03

3. A study to assess the anti-inflammatory and analgesic activity of buspione in rodents

   Dr. M. S. Khandale, Dr. R. P. Limaye
   
   Ref. No.BVDUMC&H/CAH/IAEC/2011-12/04

4. To study the antioxidant effect of TK 100 and TK 101 by quantitative estimation of superoxide dismutase and thiobarbituric acid reactive substance in vivo and vitro

   Dr. Navneet O. Soni, Dr. R. P. Limaye
   
   Ref. No.BVDUMC&H/CAH/IAEC/2011-12/06
5. To study the correlation between rise in blood sugar levels with olanzapine and weight gain and lipid levels in rodents

Mrs. Pallavi P. Patil, Dr. Neeta Grover
Ref. No.BVDUMC&H/CAH/IAEC/2011-12/07

6. Prescription analysis study of hypertension

Dr. R. P. Limaye, Mr. S.R. Pendhari, Dr. Neeta Grover, Dr. D.V. Gokhale, Dr. T. R. Patil

On going research projects

1) Evaluation of antibiotic policy development, its impact on prescribing habits and its outcome as seen in the number of hospital acquired infections

Dr. Neeta Grover, Dr. R P.Limaye, Dr. D. V. Gokhale, Dr. T. R. Patil
Ref. No. BVUMC&H/ Sangli/ IEC/ 01/09

2) Presence of metabolic syndrome in patients already diagnosed as Type 2 Diabetes

Dr. R. P. Limaye, Dr. G. B. Dhumale, Mr. Rahul Gupta
Ref. No. BVUMC&H/ Sangli/ IEC/ 02/09

3) A study to analyze the quality of information on drug provided by the pharmaceutical companies to the medical fraternity.

Dr.Neeta Grover & Dr. R.P. Limaye
Ref. No. BVUMC&H/Sangli/IEC/09/09
4) A study of the stress and stress-related psychological profile in medical students at BVDUMC&H, Sangli

Dr. Limaye RP, Dr. Grover ND, Dr. Gokhale DV, Dr. Patil TR

Ref. No. BVDUMC&H/Sangli/IEC/17/10

5) A study to assess the level of background knowledge of the students regarding computers, their operation and the use of software in Computer Assisted Learning (CAL)

Dr. R. P. Limaye

Ref. No. BVDUMC&H/Sangli/IEC/21/11

6) Proton pump inhibitors: A study to evaluate its specific renal toxicity

Mr. S. R. Pendhari, Dr. R. P. Limaye

Ref. No. BVDUMC&H/CAH/IAEC/2011-12/02

7) An Experimental Study of Blonanserin for Its Effects on Anxiety, Depression and D₂ Receptor Mediated Catalepsy

Dr. Mrs. Aditi N. Patil, Dr. R. P. Limaye

Ref. No. BVDUMC&H/CAH/IAEC/2011-12/05

8) “Good Death”- A study of prevailing concepts

Dr. R. P. Limaye, Dr. A. G. Kulkarni, Dr. Neeta Grover

Ref. No. BVDUMC&H/Sangli/IEC/44/12
9) Drug utilization study in neonatal intensive care unit (NICU) of Bharati Vidyapeeth
   Deemed University Medical College and Hospital, Sangli.
   Dr. Madhushree Khandale, Dr. R. P. Limaye, Dr. D. V. Gokhale, Dr. Neeta Grover
   (Ref. No. BVDUMC&H/ Sangli/ IEC/ 52/13

10) An experimental study of various test drugs for its anti anxiety and anti depressant effect
    Dr. R. P. Limaye
    Ref. No. BVDUMC&H/CAH/IAEC/2013-14/08

11) A probe into prohealing properties of GTN
    Dr. D.V. Gokhale, Dr. R. P. Limaye, Dr. Neeta Grover, Dr. T. R. Patil, Mr. S.R. Pendhari
    Ref. No. BVDUMC&H/CAH/IAEC/2013-14/09

12) To evaluate Anti-inflammatory action of Spagyric essence from roots of Argemone Maxicana, Aloe Vera leaves of Justicia Adhatoda & leaves of Eucalyptus Globus using
    the HRBC membrane stabilization method
    **Dr. Soni Navneet (Dept. of Pharmacology)**
    BVDUMC&H/Sangli/IEC/ 78/14

13. Pain response to cold Pressor Task in optimistic and Pessimistic students
    **Dr. Soni Navneet, Dr. R. P. Limaye (Dept. of Pharmacology)**
    BVDUMC&H/Sangli/ IEC/72/13