DEPARTMENT OF PHARMACOLOGY

Introduction

The Department of Pharmacology at Government Medical College, Jalgaon, has been an integral part of the institution since its inception. Over the years, it has flourished under the leadership of distinguished faculty members.

Situated within the main college building, the department comprises the central office, the Adverse Drug Reaction Monitoring Centre, and a state-of-the-art Computer-Assisted Learning (CAL) lab. It also houses a dedicated museum and library to support undergraduate and postgraduate education.

The department continuously evolves to enhance medical education, integrating modern teaching approaches such as computer-assisted learning, the P-drug concept, and case-based discussions alongside traditional pharmacology training. It actively collaborates with other clinical departments, including psychiatry, dermatology, general medicine, and nephrology, to conduct research that contributes to advancements in pharmacology and therapeutics.

The department currently offers five postgraduate seats, providing aspiring pharmacologists with opportunities for academic growth and hands-on research experience.

Vision/Objectives

OBJECTIVES:

Undergraduate:

1. Knowledge about essential and commonly used drugs and an understanding of the pharmacologic basis of therapeutics.
2. Ability to select and prescribe medicines based on clinical condition and the pharmacologic properties, efficacy, safety, suitability and cost of medicines for common clinical conditions of national importance.
3. Knowledge of Pharmacovigilance, essential medicine concept and sources of drug information and industry-doctor relationship.
4. Ability to counsel patients regarding appropriate use of prescribed drug and drug delivery systems.

Postgraduate:

To achieve this goal, the following objectives must be fulfilled. At the end of course in Pharmacology and Therapeutics, the trained specialist shall be able to Cognitive domain,

1. Apply basic principles of pharmacology and therapeutics to practice rational use of existing drugs and evaluation of new drugs.
2. Collect and analyze experimental and clinical data related to drug kinetics or dynamics.
3. Interpret the analyzed data with reasonable accuracy and derive logical conclusions.
4. Provide appropriate advice related to the selection of drug, drug usage (desirable and undesirable effects, Kinetics, interactions), Precautions and measures to be taken during administration of a drug and treating the ADRs in a given patient taking into consideration physiological, psychological & Pathological features.
5. Audit drug utilization and drug-related adverse events.
6. Assess emergency situations while carrying out drug trials and institute emergency management until appropriate assistance from the clinical side is available.
7. Develop the ability for continued self-learning so as to update the knowledge of recent advances in the field of Pharmacology and allied fields.
8. Be competent to teach and train undergraduate and future postgraduate medical students and junior doctors in Pharmacology and Therapeutics as well as nurses and paramedical staff in Medical Colleges, Institutions and other Hospitals.
9. Plan and carry out both laboratory and clinical research with adherence to scientific methodology and GLP/GCP guidelines.
10. Be aware of the legal and ethical aspects of drug evaluation.
11. Communicate the findings, results and conclusions of scientific research, both verbally and in writings.
12. Be aware of regulatory procedures needed to be carried out prior to the marketing of a new drug in India.

Mission/Goal

Undergraduate:

The broad goal of teaching pharmacology to undergraduate students is to inculcate in them a rational and scientific basis of therapeutics.

Postgraduate:

1. To understand pharmacology in-depth with an understanding of the rational use of drugs, clinical pharmacology and to prepare good quality teachers.
2. Introducing students to advances in teaching technology, Computer Aided Learning, internet, patent laws and procedures etc.
3. To orient students for research & developments.

LIST OF FACULTY

Sr. No.	Name of Faculty	Designation	Qualification	Total Teaching experience	Photo
01	Dr Ritesh Sonawane	Assistant Professor	MBBS, M.D	05 years	
02	Dr. Harshal Mahajan	Assistant Professor	MBBS, M.D	04 years	

List of Residents			
SR.NO	**NAME**	**DESIGNATION**	**DATE OF JOINING**
1	Dr. Sanober Sultana	Junior Resident-3	22/12/2022
2	Dr. Priyanka Madhukar Ahire	Junior Resident-2	11/10/2023
3	Dr. Sakshi Kamble	Junior Resident-2	19/10/2023
4	Dr. Deepak Kavhar	Junior Resident-2	23/10/2023
5	Dr. Dilip Kushwaha	Junior Resident-2	30/10/2023
6	Dr. BrijeshKumar Ratilal Vidja	Junior Resident-2	30/10/2023
7	Dr. Shubham Ashok Tidke	Junior Resident-1	29/01/2025
8	Dr. Sanyogita Shivaji Dange	Junior Resident-1	07/02/2025
9	Dr. Siddhesh Kamlesh Yadav	Junior Resident-1	25/02/2025
10	Dr. Kartik Gajanan Mundhe	Junior Resident-1	07/03/2025
11	Dr. Artee Madhukar Kanse	Junior Resident-1	10/03/2025

List of Non-Teaching Staff

Sr. No.	Name	Post
01	Mr. Kunal Chandelkar	Cleark
02	Mrs. Usha Gosavi	Sweeper

Activities by Department

National Pharmacovigilance week celebrate from 17th September to 23rd September with conducting conference and Poster competitions in among undergraduate students and sensitize II-MBBS students about importance of ADR reporting

1) 21th September conducting Poster competitions
2) 22nd September conducting Quiz and Debate competitions
3) 23rd September conducting Seminar for Postgraduate Students

Best Practices/ facilities/Services offered by Department (If any)

Title of the practice:

To capture ADRs (Adverse Drug Reaction) through student ambassadors

Objectives of the practice:

a) To sensitize II-MBBS students about importance of ADR reporting
b) To train II-MBBS students in 'ADR report form' filling

The context:

Worldwide 95% of serious ADRS are not reported, ADR reporting rarely exceeds 10%. 2.9 – 5.6% of all hospital administration is due to ADRs. 35% of all hospitalized patients' experiences ADRs during their hospitalization. Under-reporting of ADR is a common problem. So, the awareness of the ADR reporting is necessary amongst the healthcare professionals. Awareness and training the II-MBBS students in ADR reporting will consequently have a positive effect when they become health care professionals. The II- MBBS students will be posted in various clinical departments. Training them from the beginning will be very useful.

Challenges:

a) Under-reporting of ADRs by Doctors and Health care professionals
b) Busy duty schedule of Health care Professionals may lead to omission of ADR reporting
c) Lack of concentration of Pharmacovigilance amongst students

The practice:

a) Students were trained about ADRs and how to report them. Six students from the II- MBBS were selected based on their percentage of marks obtained in I – MBBS (70% and above) through a lottery system. These six students were the ambassadors for a period of six months. After six months the selection is done based on the academic performance, attendance percentage and individual interest of the students.
b) Ambassadors used posters for awareness of ADR reporting in the wards for patients, relatives, visitors and health care professionals.
c) The training program was also extended to staff and undergraduates of Physiotherapy, Nursing and Pharmacy colleges to increase ADR reporting.
d) Analysis of the data was done and feedback from student ambassadors was noted.
Evidence of success:

a) Students started to show interest to be part of Pharma industries (Pharmacovigilance wing) by acknowledging the importance of ADR reporting.
b) Staff nurses, pharmacists, physiotherapists also started reporting of ADRs
Problems encountered and resources required:
a) Students think that it's not their responsibility to report ADR
b) Lack of motivation
c) Lack of knowledge to differentiate between ADRs and aggravated pathological conditions

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List of Publications and Research (Faculty wise)

Sr. No	Name of Faculty	Publication in Vancouver Style	Indexing System
01	Dr. Ritesh Sonawane MBBS, MD 06 Publications	Instant Recall Ability Assessment and testing 2nd MBBS UG Student- Pharmacology and Therapeutics.	Index Medicus, Index Copernicus, Scopus
		Indigenous Method for Assessment of important Aspects in undergraduates on Pharmacology and therapeutics: A preliminary study	Index Medicus, Index Copernicus, Scopus
		Animal life saver Technique To Assess Skill of 2:2 four point assay of Histamine using Animal Experiment Software on Guinea Pig ileum.	Index Medicus, Index Copernicus, Scopus
		Could chick-ileum be Relied for test solution's strength estimation Accuracy in MD- Pharmacology Practical Examination?	Index Medicus, Index Copernicus, Scopus
		Comparative study between academic performances of traditional versus competency-based medical education M.B.B.S. curriculum students in Pharmacology	Index Medicus, Index Copernicus, Scopus

		Awareness of medical students towards the safe disposal of unused and expired household medicines: a survey	Index Medicus, Index Copernicus, Scopus
02	Dr. Harshal Mahajan MBBS, MD 35 Publications	Mahajan H, Date A, Badwaik R, Borkar A, Wanmali S. Analysis of pattern of antimicrobial use in respiratory tract infections in a tertiary care hospital of central India- a drug utilization study. Journal of Contemporary Medicine and Dentistry. 2014;2(3):59-64.	Index Medicus, Index Copernicus, Scopus
		Dudhe B, Mahajan H, Badwaik R, Bhosale R. Evaluation of knowledge, attitude & practice of rational use of medicine among residents in a tertiary care hospital of central India. Journal of Contemporary Medicine and Dentistry. 2014;2(3):69-73.	Index Medicus, Index Copernicus, Scopus
		Dudhe B, Mahajan H, Badwaik R, Bhosale R. Evaluation of knowledge, attitude & practice of rational use of medicine among residents in a tertiary care hospital of central India. Journal of Contemporary Medicine and Dentistry. 2014;2(3):69-73.	Index Medicus, Index Copernicus, Scopus
		Mahajan H, Honrao R, Borkar A, Badwaik R, Chopde S, Surwase P. A Drug Utilization Study in Glaucoma Patients in a Tertiary Care Hospital of Central India. Journal of Contemporary Medicine and Dentistry. 2015;3(2):44-47.	Index Medicus, Index Copernicus, Scopus
		Badwaik R, Mahajan H, Borkar A, Honrao R, Chopde S. A Drug Utilization Study of Antiepileptic Drugs Use in a Tertiary Care Hospital of Central India. Journal of Contemporary Medicine and Dentistry. 2015;3(2):33-38.	Index Medicus, Index Copernicus, Scopus
		Badwaik R, Chopde S, Mahajan H, Honrao R. Prescribers' Views on Generic Medicines: A Study on Knowledge, Attitude and Practice. Journal of Contemporary Medicine and Dentistry. 2015;3(2):27-32.	Index Medicus, Index Copernicus, Scopus
		Borkar A, Mahajan H, Nirmal S, Dudhe B. A single blind comparative study of efficacy and safety of four atypical antipsychotic drugs in treatment of delirium. International Journal of Medical and Pharmaceutical Sciences. 2015; 2(1):234-41.	Index Medicus, Index Copernicus, Scopus
		Shende T, Siddiqui R, Mahajan H. Anti- hypertensive agents in systemic hypertension associated with type 2 diabetes in tertiary hospital. International Journal of Basic & Clinical Pharmacology. 2015; 4(3): 510-514.	Index Medicus, Index Copernicus, Scopus

		Date A, Mahajan H, Dashputra A. Study of variation in price of various anti-diabetic drugs available in Indian market. International Journal of Basic & Clinical Pharmacology. 2015; 4:36-40.	Index Medicus, Index Copernicus, Scopus
		Gosavi M, Pande S, Mahajan H, Oke M. Primary cutaneous histoplasmosis: a case report with review of literature. International Journal of Medical and Pharmaceutical Sciences. 2015; 5(10): 05-07.	Index Medicus, Index Copernicus, Scopus
		Gosavi M, Borkar M, Mahajan H. Lymphangioma circumscriptum: case reports with review of literature. Journal of Contemporary Medicine and Dentistry. 2015;3(2):51-53.	Index Medicus, Index Copernicus, Scopus
		Shende T, Siddiqui R, Mahajan H. Drug utilization study of fixed dose combinations used in hypertension in rural tertiary health care centre of central India. International Journal of Current Research & review. 2016; 8(12):30-34.	Index Medicus, Index Copernicus, Scopus
		Mahajan H, Badwaik R, Borkar A, Shende T. Pharmacovigilance: ways to make it serve its purpose. International Journal of Pharmaceutical Sciences and Medicine. 2016; 1(1): 69-76.	Index Medicus, Index Copernicus, Scopus
		Siddiqui R, Shende T, Mahajan H, Mahajan H, Borkar A. Antipsychotic medication prescribing trends in a tertiary care hospital. International Journal of Basic & Clinical Pharmacology. 2016;5(4):1417-1420.	Index Medicus, Index Copernicus, Scopus
		Ramanathan P, Mahajan H, Dhoot D. Treatment of severe acne vulgaris with 30% salicylic acid and 35% glycolic acid: a case report. The Aestheticians Journal 2018; 2(1):14-18.	Index Medicus, Index Copernicus, Scopus
		Dhoot D, Mahajan H, Barkate H. Fenticonazole in Vulvovaginal Infections: A Real-world Clinical Experience in India - Force India Study. Int J Sci Stud 2018;6(1):93-8.	Index Medicus, Index Copernicus, Scopus
		Parkar V, Mahajan H, Dhoot D, Barkate H. Oral Ferric Pyrophosphate Formulation Utilization Surveillance Study to Assess Clinical Impact on Hemoglobin Levels: MAXIIM-Hemoglobin Study. Int J Sci Stud 2019;6(10):49-54.	Index Medicus, Index Copernicus, Scopus
		Dhiraj D, Harshal M, Gaurav D, Hanmant B. Evaluation of Effectiveness and Safety of Oral Bepotastine in the Management of Chronic Urticaria. Int J Sci Stud 2019;6(11):1-5.	Index Medicus, Index Copernicus, Scopus
		Deshmukh G, Dhoot D, Mahajan H, Barkate H. Real-World Efficacy and Safety of Novel Second-Generation Antihistamine “Bepotastine” in Management of Pruritus Associated With Skin Disorders. Int J Sci Stud 2019;6(11):38-42.	Index Medicus, Index Copernicus, Scopus

		Mahajan H, Dhoot D, Barkate H. Clinical Assessment of Itraconazole in Dermatophytosis (CLEAR Study): A Retrospective Evaluation. Int J Sci Stud 2020;8(2):1-5.	Index Medicus, Index Copernicus, Scopus
		Mahajan H, Deshmukh G, Dhoot D, Mamadi R, Barkate H. Comparative Clinical Assessment of Effectiveness and Safety of Calcitriol and Calcipotriol in Mild Plaque Psoriasis. International Journal of Clinical Dermatology 2020; 3(2): 28-31.	Index Medicus, Index Copernicus, Scopus
		Dhoot D, Deshmukh G, Mahajan H, Rashmi K, Barkate H. Usefulness of Luliconazole 1% and Salicylic Acid 3% as FDC Cream in the Treatment of Hyperkeratotic Tinea Pedis. Clin Dermatol J 2020, 5(4): 000225.	Index Medicus, Index Copernicus, Scopus
		Parasramani SG, Jha A, Seetharam AK, De A, Girdhar M, Lahiri K, Murthy DBN, Puhan M, Saoji V, Deshmukh G, Dhoot D, Mahajan H, Barkate H. The menace of hyperkeratotic tinea infection: A new therapeutic combination on horizon. IP Indian J Clin Exp Dermatol 2021;7(1):1-7.	Index Medicus, Index Copernicus, Scopus
		Mahajan H, Dhoot D, Deshmukh G, Barkate H. Comparative clinical effectiveness and safety of super bioavailable itraconazole and conventional itraconazole in management of dermatophytosis: a retrospective data analysis. Int J Res Dermatol. 2021 May;7(3):388-394.	Index Medicus, Index Copernicus, Scopus
		Kharkar RD, Dhoot D, Mahajan H, Barkate H. A real world retrospective analysis of comparison of effectiveness and safety of mometasone furoate and fluticasone propionate in the management of eczema and dermatitis. IP Indian J Clin Exp Dermatol 2021;7(2):1-5.	Index Medicus, Index Copernicus, Scopus
		Ghate S, Dhoot D, Mahajan H, Barkate H. Clinical assessment of Super bioavailable Itraconazole 50 mg in dermatophytosis (Clear 50). IP Indian J Clin Exp Dermatol 2021;7(2):1-5.	Index Medicus, Index Copernicus, Scopus
		Prabhat P, Mayadeo L, Mahajan H, Dhoot D. Comparison of various regimens of itraconazole in treatment of acute vulvovaginal candidiasis. Indian Journal of Obstetrics and Gynecology Research 2021;8(2):244-249.	Index Medicus, Index Copernicus, Scopus
		Bhangale C, Ramanand J, Teli SESI, Mahajan H. Relationship between awareness and fear about coronavirus disease infection among M.B.B.S. students studying at dedicated coronavirus disease hospital – A cross-sectional web-based survey. Natl J	Index Medicus, Index Copernicus, Scopus

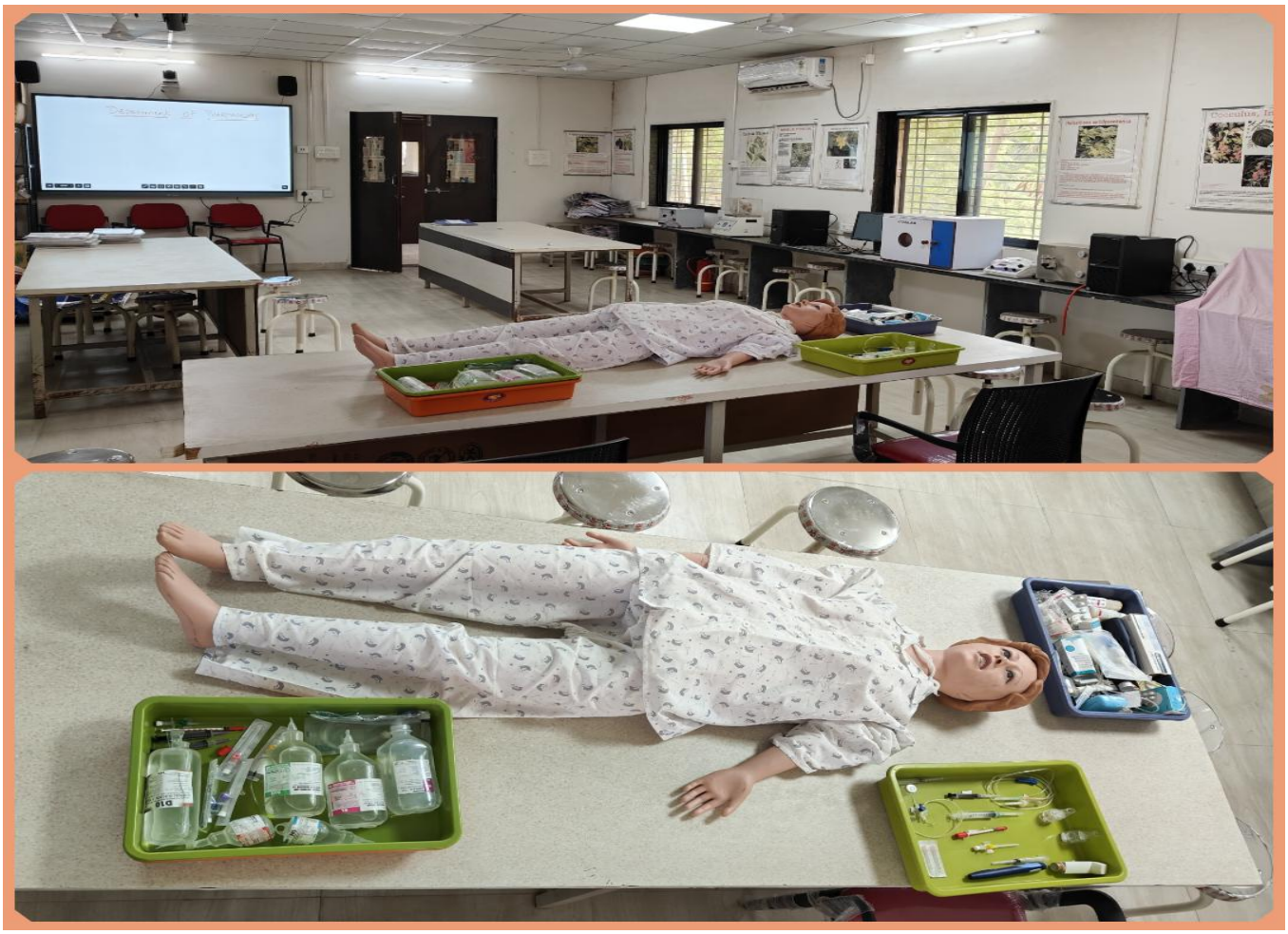
		Physiol Pharm Pharmacol. 2022; 12(1): 0-0 [Online first].	
		Teli SESI, Ramanand J, Bhangale CS, Mahajan HM, Mandhare R. Analysis of all the adverse events following immunization by CovishieldTM vaccine among healthcare workers at Government Medical College, Jalgaon. Natl J Physiol Pharm Pharmacol. 2022; 12(1): 0-0 [Online first].	Index Medicus, Index Copernicus, Scopus
		Bhangale C, Teli SESI, Ramanand J, Mahajan H. Evaluation of prescribing pattern of antifungal drugs and clinical outcome in post-COVID suspected cases of mucormycosis at dedicated COVID hospital an observational study. Paripex Indian Journal of Research 2021; 10 (9):1-3.	Index Medicus, Index Copernicus, Scopus
		Bhangale C, Teli SESI, Mahajan H. Haematological parameters and clinical outcomes in intensive care unit of a dedicated Covid hospital. Paripex Indian Journal of Research 2021; 10 (10):22-24.	Index Medicus, Index Copernicus, Scopus
		Teli SESI, Bhangale C, Mahajan H, Gaikwad V. Drug prescribing pattern and clinical outcome in intensive care unit of a dedicated Covid hospital a retrospective study. National Journal of Physiology Pharmacy and Pharmacology 2022; 12 (4): online first.	Index Medicus, Index Copernicus, Scopus
		Teli SESI, Bhangale C, Ramanand J, Mahajan H. Clinical outcome and toxicity in post-Covid suspected cases of mucormycosis treated with Amphotericin B at dedicated Covid hospital a prospective observational study. International Journal of Basic and Clinical Pharmacology 2021; 10(11): 1271-5.	Index Medicus, Index Copernicus, Scopus
		Bhangale C, Teli SESI, Ramanand J, Mahajan H. Assessment of vaccine hesitancy for Covid19 vaccines and evaluation of factors associated with it among the residents of North Maharashtra region India. National Journal of Physiology Pharmacy and Pharmacology 2022; 12 (4): online first.	Index Medicus, Index Copernicus, Scopus
		Shenoy M, Dhoot D, Mahajan H, Barkate H. An Open-Label, Randomized, Double-Arm Clinical Trial to Compare the Effectiveness and Safety of Super Bioavailable Itraconazole Capsules and Itraconazole Capsules in the Management of Dermatophytosis in India. Clinical, Cosmetic and Investigational Dermatology 2021; 14: 1367-1376.	Index Medicus, Index Copernicus, Scopus

Photo Gallery

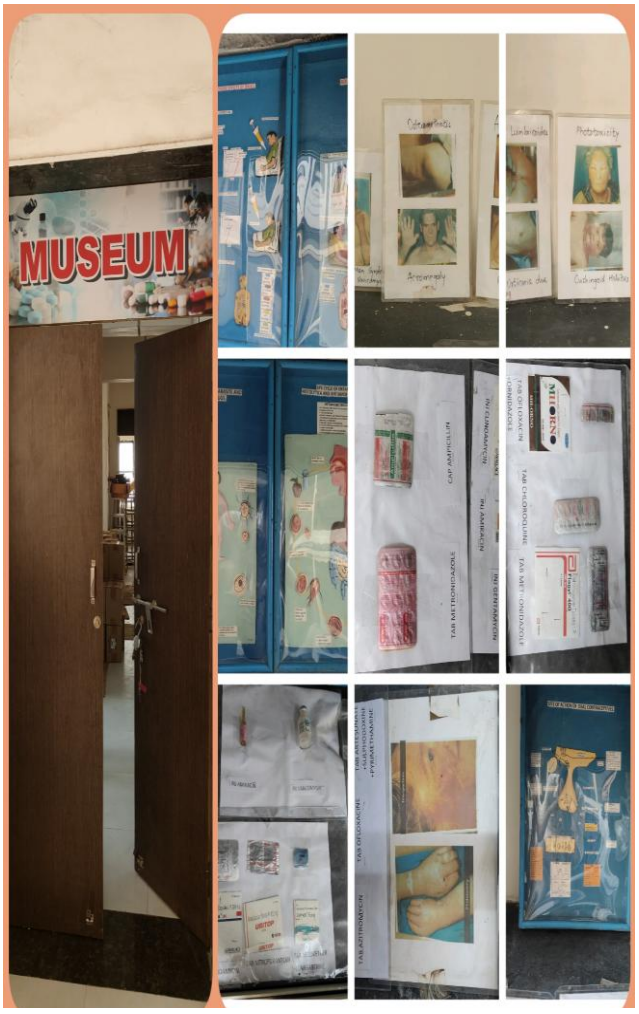
Computer Assisted Learning Laboratory

Departmental Infrastructure

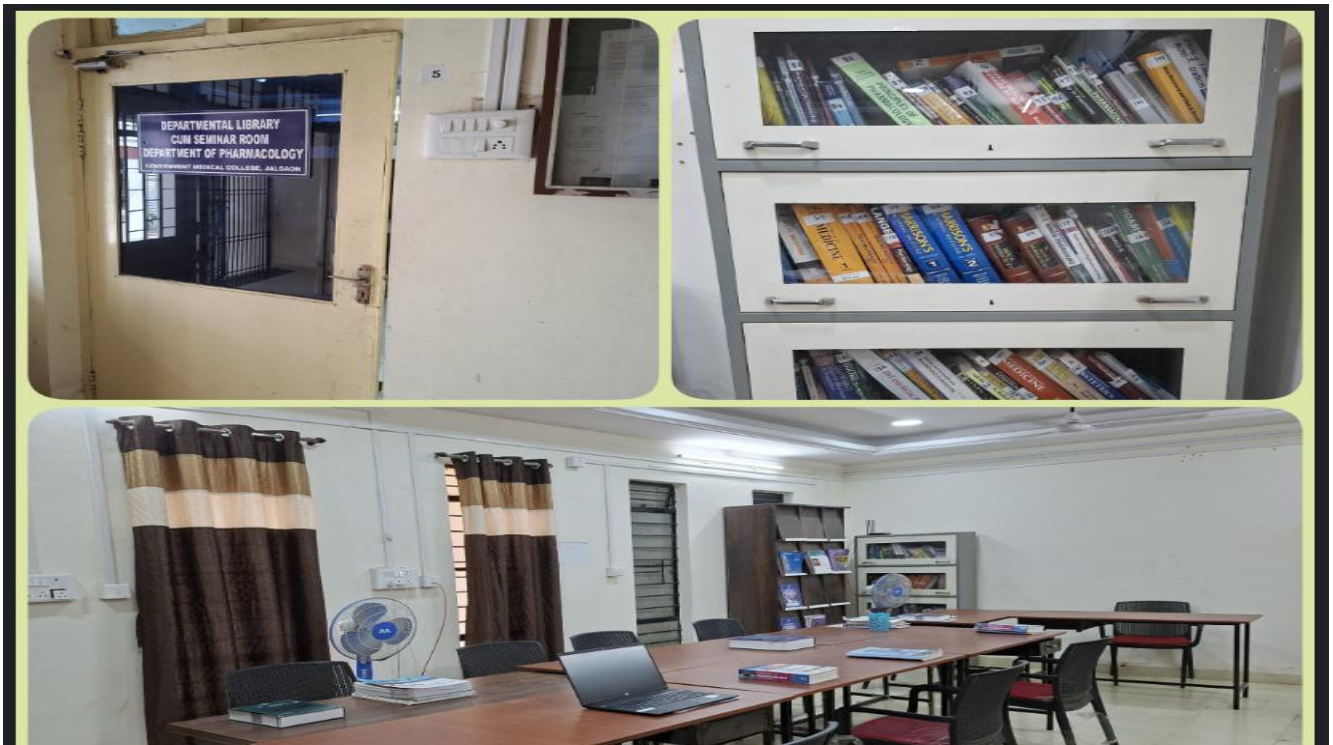
Experimental Pharmacology Laboratory



MUSEUM



LIBRARY CUM POSTGRADUATE SEMINAR HALL




PLETHYSMOMETER


DIGITAL pH METER


COSLAB


ANALGESIOMETER (EDDY HOT PLATE)


ACTIVITY CAGE (ACTO PHOTO METER)


ROTA ROD (FOUR COMPARTMENT)


ELECTRO CONVULSOMETER