



Panchakshari Shivacharya Trust's Aloor

CHANNABASWESHWAR PHARMACY COLLEGE (DEGREE), LATUR

Basweshwar Chowk, Kava Road, Latur-413512 (Maharashtra)



CRITERION 1 CURRICULAR ASPECTS

1.3

Curriculum Enrichment

1.3.1

Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability in transacting the Curriculum

Supportive document





Panchakshri Shivacharya Trust's

CHANNABASWESHWAR PHARMACY COLLEGE (DEGREE)

Kava Road, Basweshwar Chowk, Latur-413512 (Maharashtra) Tel./Fax :- (02382) 243855

DTE Code :- 2253, University Code :- 947, MSBTE Code :- 2041

Email:- channabasweshwar@gmail.com / principalcbpc@gmail.com Website:- www.channabasweshwar.org

Approved by:- Govt. of Maharashtra, PCI, New Delhi, Affiliated to:- S.R.T.M. University, Nanded, MSBTE, Mumbai.

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1. Crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the curriculum through course curriculum

Sr. No.	Course Name	Course code	Programme	Issues Relevant to			
				Professional Ethics	Gender Equity	Human Values	Environment and Sustainability
01	Human Anatomy Physiology I & II (Both TH & PR)	BP101T BP107P BP201T BP207P	F.Y. B. Pharm.	--	√	√	--
02	Communication Skill (Both TH & PR)	BP105T BP111P	F.Y. B. Pharm.	--	√	√	√
03	Environmental Science	BP206T	F.Y. B. Pharm.	--	--	√	√
04	Pathophysiology	BP204T	S.Y. B. Pharm.	√	--	√	--
05	Pharmaceutical Jurisprudence	BP505T	T.Y. B.Pharm	√	--	--	--
06	Pharmaceutical Quality Assurance	BP606T	T.Y. B.Pharm	√	--	--	√
07	Pharmacy Practice	BP703T	Final Yr. B.Pharm	√	--	√	√

08	Practice School	BP706PS	Final Yr. B.Pharm	√	--	√	√
09	Social & Preventive Pharmacy	BP802T	Final Yr. B.Pharm	--	--	√	--
10	Pharmaceutical Regulatory Science	BP804ET	Final Yr. B.Pharm	√	--	--	--
11	Project Work	BP813PW	Final Yr. B.Pharm	--	--	--	√
12	Human Anatomy Physiology (Both TH & PR)	1.1	F.Y. Pharm D	--	√	√	--
13	Pathophysiology	2.1	S.Y. Pharm D	√	--	√	--
14	Community Pharmacy	2.5	S.Y. Pharm D	√	--	√	--
15	Pharmaceutical Jurisprudence	3.4	T.Y. Pharm D	√	--	--	--
16	Regulatory Affairs	MPH104T	F.Y. M.Pharm (MPH)	√	--	--	√
17	Computer Aided Drug Development	MPH203T	F.Y. M.Pharm (MPH)	--	--	--	√
18	Hazard & Safety Management	MQA201T	F.Y. M.Pharm (MQA)	√	--	--	√
19	Audit & Regulatory Compliance	MQA203T	F.Y. M.Pharm (MQA)	√	--	--	√
20	Computer Aided Drug design	MPC203T	F.Y. M.Pharm (MPC)	--	--	--	√




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1. Current Human Anatomy Physiology I & II (Both TH & PR), F.Y. B. Pharm.

BP101T. HUMAN ANATOMY AND PHYSIOLOGY-I (Theory)

45 Hours

Scope: This subject is designed to impart fundamental knowledge on the structure and functions of the various systems of the human body. It also helps in understanding both homeostatic mechanisms. The subject provides the basic knowledge required to understand the various disciplines of pharmacy.

Objectives: Upon completion of this course the student should be able to

1. Explain the gross morphology, structure and functions of various organs of the human body.
2. Describe the various homeostatic mechanisms and their imbalances.
3. Identify the various tissues and organs of different systems of human body.
4. Perform the various experiments related to special senses and nervous system.
5. Appreciate coordinated working pattern of different organs of each system

Course Content:

Unit I

10 hours

- **Introduction to human body**

Definition and scope of anatomy and physiology, levels of structural organization and body systems, basic life processes, homeostasis, basic anatomical terminology.

- **Cellular level of organization**

Structure and functions of cell, transport across cell membrane, cell division, cell junctions. General principles of cell communication, intracellular signaling pathway activation by extracellular signal molecule, Forms of intracellular signaling: a) Contact-dependent b) Paracrine c) Synaptic d) Endocrine

- **Tissue level of organization**

Classification of tissues, structure, location and functions of epithelial, muscular and nervous and connective tissues.

Unit II

10 hours

- **Integumentary system**

Structure and functions of skin

- **Skeletal system**

Divisions of skeletal system, types of bone, salient features and functions of bones of axial and appendicular skeletal system

Organization of skeletal muscle, physiology of muscle contraction, neuromuscular junction



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- **Joints**

Structural and functional classification, types of joints movements and its articulation

Unit III

10 hours

- **Body fluids and blood**

- Body fluids, composition and functions of blood, hemopoiesis, formation of hemoglobin, anemia, mechanisms of coagulation, blood grouping, Rh factors, transfusion, its significance and disorders of blood, Reticulo endothelial system.

- **Lymphatic system**

Lymphatic organs and tissues, lymphatic vessels, lymph circulation and functions of lymphatic system

Unit IV

08 hours

Peripheral nervous system:

Classification of peripheral nervous system: Structure and functions of sympathetic and parasympathetic nervous system.

Origin and functions of spinal and cranial nerves.

- **Special senses**

Structure and functions of eye, ear, nose and tongue and their disorders.

Unit V

07 hours

- **Cardiovascular system**

Heart – anatomy of heart, blood circulation, blood vessels, structure and functions of artery, vein and capillaries, elements of conduction system of heart and heart beat, its regulation by autonomic nervous system, cardiac output, cardiac cycle. Regulation of blood pressure, pulse, electrocardiogram and disorders of heart.



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BP107P. HUMAN ANATOMY AND PHYSIOLOGY (Practical)

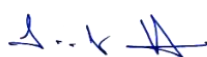
4 Hours/week

Practical physiology is complimentary to the theoretical discussions in physiology. Practicals allow the verification of physiological processes discussed in theory classes through experiments on living tissue, intact animals or normal human beings. This is helpful for developing an insight on the subject.

1. Study of compound microscope.
2. Microscopic study of epithelial and connective tissue
3. Microscopic study of muscular and nervous tissue
4. Identification of axial bones
5. Identification of appendicular bones

6. Introduction to hemocytometry.
7. Enumeration of white blood cell (WBC) count
8. Enumeration of total red blood corpuscles (RBC) count
9. Determination of bleeding time
10. Determination of clotting time
11. Estimation of hemoglobin content
12. Determination of blood group.
13. Determination of erythrocyte sedimentation rate (ESR).
14. Determination of heart rate and pulse rate.
15. Recording of blood pressure.




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BP 201T. HUMAN ANATOMY AND PHYSIOLOGY-II (Theory)

45 Hours

Scope: This subject is designed to impart fundamental knowledge on the structure and functions of the various systems of the human body. It also helps in understanding both homeostatic mechanisms. The subject provides the basic knowledge required to understand the various disciplines of pharmacy.

Objectives: Upon completion of this course the student should be able to:

1. Explain the gross morphology, structure and functions of various organs of the human body.
2. Describe the various homeostatic mechanisms and their imbalances.
3. Identify the various tissues and organs of different systems of human body.
4. Perform the hematological tests like blood cell counts, haemoglobin estimation, bleeding/clotting time etc and also record blood pressure, heart rate, pulse and respiratory volume.
5. Appreciate coordinated working pattern of different organs of each system
6. Appreciate the interlinked mechanisms in the maintenance of normal functioning (homeostasis) of human body.

Course Content:

Unit I

10 hours

- **Nervous system**

Organization of nervous system, neuron, neuroglia, classification and properties of nerve fibre, electrophysiology, action potential, nerve impulse, receptors, synapse, neurotransmitters.

Central nervous system: Meninges, ventricles of brain and cerebrospinal fluid. structure and functions of brain (cerebrum, brain stem, cerebellum), spinal cord (gross structure, functions of afferent and efferent nerve tracts, reflex activity)

Unit II

06 hours

- **Digestive system**

Anatomy of GI Tract with special reference to anatomy and functions of stomach, (Acid production in the stomach, regulation of acid production through parasympathetic nervous system, pepsin role in protein digestion) small intestine



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and large intestine, anatomy and functions of salivary glands, pancreas and liver, movements of GIT, digestion and absorption of nutrients and disorders of GIT.

- **Energetics**

Formation and role of ATP, Creatinine Phosphate and BMR.

Unit III

- **Respiratory system**

10 hours

Anatomy of respiratory system with special reference to anatomy of lungs, mechanism of respiration, regulation of respiration

Lung Volumes and capacities transport of respiratory gases, artificial respiration, and resuscitation methods.

- **Urinary system**

Anatomy of urinary tract with special reference to anatomy of kidney and nephrons, functions of kidney and urinary tract, physiology of urine formation, micturition reflex and role of kidneys in acid base balance, role of RAS in kidney and disorders of kidney.

Unit IV

10 hours

- **Endocrine system**

Classification of hormones, mechanism of hormone action, structure and functions of pituitary gland, thyroid gland, parathyroid gland, adrenal gland, pancreas, pineal gland, thymus and their disorders.

Unit V

09 hours

- **Reproductive system**

Anatomy of male and female reproductive system, Functions of male and female reproductive system, sex hormones, physiology of menstruation, fertilization, spermatogenesis, oogenesis, pregnancy and parturition

- **Introduction to genetics**

Chromosomes, genes and DNA, protein synthesis, genetic pattern of inheritance



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BP 207 P. HUMAN ANATOMY AND PHYSIOLOGY (Practical)

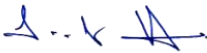
4 Hours/week

Practical physiology is complimentary to the theoretical discussions in physiology. Practicals allow the verification of physiological processes discussed in theory classes through experiments on living tissue, intact animals or normal human beings. This is helpful for developing an insight on the subject.

1. To study the integumentary and special senses using specimen, models, etc.,
2. To study the nervous system using specimen, models, etc.,
3. To study the endocrine system using specimen, models, etc
4. To demonstrate the general neurological examination
5. To demonstrate the function of olfactory nerve
6. To examine the different types of taste.
7. To demonstrate the visual acuity
8. To demonstrate the reflex activity
9. Recording of body temperature
10. To demonstrate positive and negative feedback mechanism.

11. Determination of tidal volume and vital capacity.
12. Study of digestive, respiratory, cardiovascular systems, urinary and reproductive systems with the help of models, charts and specimens.
13. Recording of basal mass index .
14. Study of family planning devices and pregnancy diagnosis test.
15. Demonstration of total blood count by cell analyser
16. Permanent slides of vital organs and gonads.




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2. Communication Skill (Both TH & PR), F.Y. B. Pharm.

BP105T.COMMUNICATION SKILLS (Theory)

30 Hours

Scope: This course will prepare the young pharmacy student to interact effectively with doctors, nurses, dentists, physiotherapists and other health workers. At the end of this course the student will get the soft skills set to work cohesively with the team as a team player and will add value to the pharmaceutical business.

Objectives:

Upon completion of the course the student shall be able to

1. Understand the behavioral needs for a Pharmacist to function effectively in the areas of pharmaceutical operation
2. Communicate effectively (Verbal and Non Verbal)
3. Effectively manage the team as a team player
4. Develop interview skills
5. Develop Leadership qualities and essentials

Course content:

UNIT – I

07 Hours

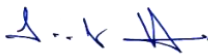
- **Communication Skills:** Introduction, Definition, The Importance of Communication, The Communication Process – Source, Message, Encoding, Channel, Decoding, Receiver, Feedback, Context
- **Barriers to communication:** Physiological Barriers, Physical Barriers, Cultural Barriers, Language Barriers, Gender Barriers, Interpersonal Barriers, Psychological Barriers, Emotional barriers
- **Perspectives in Communication:** Introduction, Visual Perception, Language, Other factors affecting our perspective - Past Experiences, Prejudices, Feelings, Environment

UNIT – II

07 Hours

- **Elements of Communication:** Introduction, Face to Face Communication - Tone of Voice, Body Language (Non-verbal communication), Verbal Communication, Physical Communication
- **Communication Styles:** Introduction, The Communication Styles Matrix with example for each -Direct Communication Style, Spirited Communication Style, Systematic Communication Style, Considerate Communication Style




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UNIT – III

07 Hours

- **Basic Listening Skills:** Introduction, Self-Awareness, Active Listening, Becoming an Active Listener, Listening in Difficult Situations
- **Effective Written Communication:** Introduction, When and When Not to Use Written Communication - Complexity of the Topic, Amount of Discussion' Required, Shades of Meaning, Formal Communication
- **Writing Effectively:** Subject Lines, Put the Main Point First, Know Your Audience, Organization of the Message

UNIT – IV

05 Hours

- **Interview Skills:** Purpose of an interview, Do's and Dont's of an interview
- **Giving Presentations:** Dealing with Fears, Planning your Presentation, Structuring Your Presentation, Delivering Your Presentation, Techniques of Delivery

UNIT – V

04 Hours

- **Group Discussion:** Introduction, Communication skills in group discussion, Do's and Dont's of group discussion



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BP111P.COMMUNICATION SKILLS (Practical)

2 Hours / week

The following learning modules are to be conducted using wordsworth[®] English language lab software

Basic communication covering the following topics

Meeting People

Asking Questions

Making Friends

What did you do?

Do's and Dont's

Pronunciations covering the following topics

Pronunciation (Consonant Sounds)

Pronunciation and Nouns

Pronunciation (Vowel Sounds)

Advanced Learning

Listening Comprehension / Direct and Indirect Speech

Figures of Speech

Effective Communication

Writing Skills

Effective Writing

Interview Handling Skills

E-Mail etiquette

Presentation Skills



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3. Environmental Science, F.Y. B. Pharm.

BF 206 T. ENVIRONMENTAL SCIENCES (Theory)

30 hours

Scope: Environmental Sciences is the scientific study of the environmental system and the status of its inherent or induced changes on organisms. It includes not only the study of physical and biological characters of the environment but also the social and cultural factors and the impact of man on environment.

Objectives: Upon completion of the course the student shall be able to:

1. Create the awareness about environmental problems among learners.
2. Impart basic knowledge about the environment and its allied problems.
3. Develop an attitude of concern for the environment.
4. Motivate learner to participate in environment protection and environment improvement.
5. Acquire skills to help the concerned individuals in identifying and solving environmental problems.
6. Strive to attain harmony with Nature.

Course content:

Unit-I

10hours

The Multidisciplinary nature of environmental studies

Natural Resources

Renewable and non-renewable resources:

Natural resources and associated problems

a) Forest resources; b) Water resources; c) Mineral resources; d) Food resources; e) Energy resources; f) Land resources: Role of an individual in conservation of natural resources.

Unit-II

10hours

Ecosystems

- Concept of an ecosystem.
- Structure and function of an ecosystem.
- Introduction, types, characteristic features, structure and function of the ecosystems: Forest ecosystem; Grassland ecosystem; Desert ecosystem; Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

Unit- III

10hours

Environmental Pollution: Air pollution; Water pollution; Soil pollution



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4. Pathophysiology, S.Y. B. Pharm.

BP 204T.PATHOPHYSIOLOGY (THEORY)

45Hours

Scope: Pathophysiology is the study of causes of diseases and reactions of the body to such disease producing causes. This course is designed to impart a thorough knowledge of the relevant aspects of pathology of various conditions with reference to its pharmacological applications, and understanding of basic pathophysiological mechanisms. Hence it will not only help to study the syllabus of pathology, but also to get baseline knowledge required to practice medicine safely, confidently, rationally and effectively.

Objectives: Upon completion of the subject student shall be able to –

1. Describe the etiology and pathogenesis of the selected disease states;
2. Name the signs and symptoms of the diseases; and
3. Mention the complications of the diseases.

Course content:

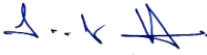
Unit I

10Hours

- **Basic principles of Cell injury and Adaptation:**

Introduction, definitions, Homeostasis, Components and Types of Feedback systems, Causes of cellular injury, Pathogenesis (Cell membrane damage, Mitochondrial damage, Ribosome damage, Nuclear damage), Morphology of cell injury – Adaptive changes (Atrophy, Hypertrophy, hyperplasia, Metaplasia, Dysplasia), Cell swelling, Intra cellular accumulation, Calcification, Enzyme leakage and Cell Death Acidosis & Alkalosis, Electrolyte imbalance




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5. Pharmaceutical Jurisprudence, T.Y. B. Pharm

BP 505 T. PHARMACEUTICAL JURISPRUDENCE (Theory)

45 Hours

Scope: This course is designed to impart basic knowledge on important legislations related to the profession of pharmacy in India.

Objectives: Upon completion of the course, the student shall be able to understand:

1. The Pharmaceutical legislations and their implications in the development and marketing of pharmaceuticals.
2. Various Indian pharmaceutical Acts and Laws
3. The regulatory authorities and agencies governing the manufacture and sale of pharmaceuticals
4. The code of ethics during the pharmaceutical practice

Course Content:

UNIT-I

10 Hours

Drugs and Cosmetics Act, 1940 and its rules 1945:

Objectives, Definitions, Legal definitions of schedules to the Act and Rules

Import of drugs – Classes of drugs and cosmetics prohibited from import, Import under license or permit. Offences and penalties.

Manufacture of drugs – Prohibition of manufacture and sale of certain drugs,

Conditions for grant of license and conditions of license for manufacture of drugs, Manufacture of drugs for test, examination and analysis, manufacture of new drug, loan license and repacking license.

UNIT-II

10 Hours

Drugs and Cosmetics Act, 1940 and its rules 1945.

Detailed study of Schedule G, H, M, N, P,T,U, V, X, Y, Part XII B, Sch F & DMR (OA)

Sale of Drugs – Wholesale, Retail sale and Restricted license. Offences and penalties

Labeling & Packing of drugs- General labeling requirements and specimen labels for drugs and cosmetics, List of permitted colors. Offences and penalties.

Administration of the Act and Rules – Drugs Technical Advisory Board, Central drugs Laboratory, Drugs Consultative Committee, Government drug analysts, Licensing authorities, controlling authorities, Drugs Inspectors

UNIT-III

10 Hours

- **Pharmacy Act –1948:** Objectives, Definitions, Pharmacy Council of India; its constitution and functions, Education Regulations, State and Joint state pharmacy councils; constitution and functions, Registration of Pharmacists, Offences and



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Penalties

- **Medicinal and Toilet Preparation Act –1955:** Objectives, Definitions, Licensing, Manufacture In bond and Outside bond, Export of alcoholic preparations, Manufacture of Ayurvedic, Homeopathic, Patent & Proprietary Preparations. Offences and Penalties.
- **Narcotic Drugs and Psychotropic substances Act-1985 and Rules:** Objectives, Definitions, Authorities and Officers, Constitution and Functions of narcotic & Psychotropic Consultative Committee, National Fund for Controlling the Drug Abuse, Prohibition, Control and Regulation, opium poppy cultivation and production of poppy straw, manufacture, sale and export of opium, Offences and Penalties

UNIT-IV

08 Hours

- **Study of Salient Features of Drugs and Magic Remedies Act and its rules:** Objectives, Definitions, Prohibition of certain advertisements, Classes of Exempted advertisements, Offences and Penalties
- **Prevention of Cruelty to animals Act-1960:** Objectives, Definitions, Institutional Animal Ethics Committee, CPCSEA guidelines for Breeding and Stocking of Animals, Performance of Experiments, Transfer and acquisition of animals for experiment, Records, Power to suspend or revoke registration, Offences and Penalties
- **National Pharmaceutical Pricing Authority:** Drugs Price Control Order (DPCO)-2013. Objectives, Definitions, Sale prices of bulk drugs, Retail price of formulations, Retail price and ceiling price of scheduled formulations, National List of Essential Medicines (NLEM)

UNIT-V

07 Hours

- **Pharmaceutical Legislations** – A brief review, Introduction, Study of drugs enquiry committee, Health survey and development committee, Hathi committee and Mudaliar committee
- **Code of Pharmaceutical ethics** Definition, Pharmacist in relation to his job, trade, medical profession and his profession, Pharmacist's oath
- **Medical Termination of Pregnancy Act**
- **Right to Information Act**
- **Introduction to Intellectual Property Rights (IPR)**



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6. Pharmaceutical Quality Assurance, T.Y. B. Pharm

BP606TPHARMACEUTICAL QUALITY ASSURANCE (Theory)

45 Hours

Scope: This course deals with the various aspects of quality control and quality assurance aspects of pharmaceutical industries. It deals with the important aspects like cGMP, QC tests, documentation, quality certifications and regulatory affairs.

Objectives: Upon completion of the course student shall be able to:

- understand the cGMP aspects in a pharmaceutical industry
- appreciate the importance of documentation
- understand the scope of quality certifications applicable to pharmaceutical industries
- understand the responsibilities of QA & QC departments

Course content:

UNIT – I

10 Hours

Quality Assurance and Quality Management concepts: Definition and concept of Quality control, Quality assurance and GMP

Total Quality Management (TQM): Definition, elements, philosophies

ICH Guidelines: purpose, participants, process of harmonization, Brief overview of QSEM, with special emphasis on Q-series guidelines, ICH stability testing guidelines

Quality by design (QbD): Definition, overview, elements of QbD program, tools

ISO 9000 & ISO14000: Overview, Benefits, Elements, steps for registration

NABL accreditation : Principles and procedures

UNIT - II

10 Hours

Organization and personnel: Personnel responsibilities, training, hygiene and personal records.

Premises: Design, construction and plant layout, maintenance, sanitation, environmental control, utilities and maintenance of sterile areas, control of contamination.

Equipments and raw materials: Equipment selection, purchase specifications, maintenance, purchase specifications and maintenance of stores for raw materials.

UNIT – III

10 Hours

Quality Control: Quality control test for containers, rubber closures and secondary packing



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materials.

Good Laboratory Practices: General Provisions, Organization and Personnel, Facilities, Equipment, Testing Facilities Operation, Test and Control Articles, Protocol for Conduct of a Nonclinical Laboratory Study, Records and Reports, Disqualification of Testing Facilities

UNIT – IV

08 Hours

Complaints: Complaints and evaluation of complaints, Handling of return good, recalling and waste disposal.

Document maintenance in pharmaceutical industry: Batch Formula Record, Master Formula Record, SOP, Quality audit, Quality Review and Quality documentation, Reports and documents, distribution records.

UNIT – V

07 Hours

Calibration and Validation: Introduction, definition and general principles of calibration, qualification and validation, importance and scope of validation, types of validation, validation master plan. Calibration of pH meter, Qualification of UV-Visible spectrophotometer, General principles of Analytical method Validation.

Warehousing: Good warehousing practice, materials management



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7. Pharma Pharmacy Practice, Final Yr. B. Pharm

BP 703T. PHARMACY PRACTICE (Theory)

45 Hours

Scope: In the changing scenario of pharmacy practice in India, for successful practice of Hospital Pharmacy, the students are required to learn various skills like drug distribution, drug information, and therapeutic drug monitoring for improved patient care. In community pharmacy, students will be learning various skills such as dispensing of drugs, responding to minor ailments by providing suitable safe medication, patient counselling for improved patient care in the community set up.

Objectives: Upon completion of the course, the student shall be able to

1. know various drug distribution methods in a hospital
2. appreciate the pharmacy stores management and inventory control
3. monitor drug therapy of patient through medication chart review and clinical review
4. obtain medication history interview and counsel the patients
5. identify drug related problems
6. detect and assess adverse drug reactions
7. interpret selected laboratory results (as monitoring parameters in therapeutics) of specific disease states
8. know pharmaceutical care services
9. do patient counseling in community pharmacy;
10. appreciate the concept of Rational drug therapy.

Unit I:

10 Hours

a) Hospital and it's organization

Definition, Classification of hospital- Primary, Secondary and Tertiary hospitals, Classification based on clinical and non- clinical basis, Organization Structure of a Hospital, and Medical staffs involved in the hospital and their functions.

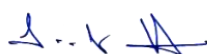
b) Hospital pharmacy and its organization

Definition, functions of hospital pharmacy, Organization structure, Location, Layout and staff requirements, and Responsibilities and functions of hospital pharmacists.

c) Adverse drug reaction

Classifications - Excessive pharmacological effects, secondary pharmacological effects, idiosyncrasy, allergic drug reactions, genetically determined toxicity, toxicity following sudden withdrawal of drugs, Drug interaction- beneficial interactions, adverse interactions, and pharmacokinetic drug interactions, Methods for detecting




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drug interactions, spontaneous case reports and record linkage studies, and Adverse drug reaction reporting and management.

d) Community Pharmacy

Organization and structure of retail and wholesale drug store, types and design, Legal requirements for establishment and maintenance of a drug store, Dispensing of proprietary products, maintenance of records of retail and wholesale drug store.

Unit II:

10 Hours

a) Drug distribution system in a hospital

Dispensing of drugs to inpatients, types of drug distribution systems, charging policy and labelling, Dispensing of drugs to ambulatory patients, and Dispensing of controlled drugs.

b) Hospital formulary

Definition, contents of hospital formulary, Differentiation of hospital formulary and Drug list, preparation and revision, and addition and deletion of drug from hospital formulary.

c) Therapeutic drug monitoring

Need for Therapeutic Drug Monitoring, Factors to be considered during the Therapeutic Drug Monitoring, and Indian scenario for Therapeutic Drug Monitoring.

d) Medication adherence

Causes of medication non-adherence, pharmacist role in the medication adherence, and monitoring of patient medication adherence.

e) Patient medication history interview

Need for the patient medication history interview, medication interview forms.

f) Community pharmacy management

Financial, materials, staff, and infrastructure requirements.

Unit III:

10 Hours

a) Pharmacy and therapeutic committee

Organization, functions, Policies of the pharmacy and therapeutic committee in including drugs into formulary, inpatient and outpatient prescription, automatic stop order, and emergency drug list preparation.

b) Drug information services

Drug



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Drug and Poison information centre, Sources of drug information, Computerised services, and storage and retrieval of information.

c) Patient counseling

Definition of patient counseling; steps involved in patient counseling, and Special cases that require the pharmacist

d) Education and training program in the hospital

Role of pharmacist in the education and training program, Internal and external training program, Services to the nursing homes/clinics, Code of ethics for community pharmacy, and Role of pharmacist in the interdepartmental communication and community health education.

e) Prescribed medication order and communication skills

Prescribed medication order- interpretation and legal requirements, and Communication skills- communication with prescribers and patients.

Unit IV 8 Hours

a) Budget preparation and implementation

Budget preparation and implementation

b) Clinical Pharmacy

Introduction to Clinical Pharmacy, Concept of clinical pharmacy, functions and responsibilities of clinical pharmacist, Drug therapy monitoring - medication chart review, clinical review, pharmacist intervention, Ward round participation, Medication history and Pharmaceutical care.

Dosing pattern and drug therapy based on Pharmacokinetic & disease pattern.

c) Over the counter (OTC) sales

Introduction and sale of over the counter, and Rational use of common over the counter medications.

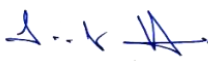
Unit V 7 Hours

a) Drug store management and inventory control

Organisation of drug store, types of materials stocked and storage conditions, Purchase and inventory control: principles, purchase procedure, purchase order, procurement and stocking, Economic order quantity, Reorder quantity level, and Methods used for the analysis of the drug expenditure

b) Investigational use of drugs




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Description, principles involved, classification, control, identification, role of hospital pharmacist, advisory committee.

c) Interpretation of Clinical Laboratory Tests

Blood chemistry, hematology, and urinalysis



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8. Practice School, Final Yr. B. Pharm

BP706PS PRACTICE SCHOOL*

150
Hours

In the VII semester, every candidate shall undergo practice school for a period of 150 hours evenly distributed throughout the semester. The student shall opt any one of the domains for practice school declared by the program committee from time to time.

At the end of the practice school, every student shall submit a printed report (in triplicate) on the practice school he/she attended (not more than 25 pages). Along with the exams of semester VII, the report submitted by the student, knowledge and skills acquired by the student through practice school shall be evaluated by the subject experts at college level and grade point shall be awarded.



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9. Social & Preventive Pharmacy, Final Yr. B. Pharm

BP 802T SOCIAL AND PREVENTIVE PHARMACY

Hours: 45

Scope:

The purpose of this course is to introduce to students a number of health issues and their challenges. This course also introduced a number of national health programmes. The roles of the pharmacist in these contexts are also discussed.

Objectives:

After the successful completion of this course, the student shall be able to:

- Acquire high consciousness/realization of current issues related to health and pharmaceutical problems within the country and worldwide.
- Have a critical way of thinking based on current healthcare development.
- Evaluate alternative ways of solving problems related to health and pharmaceutical issues

Course content:

Unit I:

10 Hours

Concept of health and disease: Definition, concepts and evaluation of public health. Understanding the concept of prevention and control of disease, social causes of diseases and social problems of the sick.

Social and health education: Food in relation to nutrition and health, Balanced diet, Nutritional deficiencies, Vitamin deficiencies, Malnutrition and its prevention.

Sociology and health: Socio cultural factors related to health and disease, Impact of urbanization on health and disease, Poverty and health

Hygiene and health: personal hygiene and health care; avoidable habits

Unit II:

10 Hours

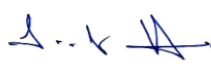
Preventive medicine: General principles of prevention and control of diseases such as cholera, SARS, Ebola virus, influenza, acute respiratory infections, malaria, chicken guinea, dengue, lymphatic filariasis, pneumonia, hypertension, diabetes mellitus, cancer, drug addiction-drug substance abuse

Unit III:

10 Hours

National health programs, its objectives, functioning and outcome of the following: HIV AND AIDS control programme, TB, Integrated disease surveillance program (IDSP), National leprosy control programme, National mental health program, National




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programme for prevention and control of deafness, Universal immunization programme, National programme for control of blindness, Pulse polio programme.

Unit IV:

08 Hours

National health intervention programme for mother and child, National family welfare programme, National tobacco control programme, National Malaria Prevention Program, National programme for the health care for the elderly, Social health programme; role of WHO in Indian national program

Unit V:

07 Hours

Community services in rural, urban and school health: Functions of PHC, Improvement in rural sanitation, national urban health mission, Health promotion and education in school.



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10. Pharmaceutical Regulatory Science, Final Yr. B. Pharm

BP804 ET: PHARMACEUTICAL REGULATORY SCIENCE (Theory)

45Hours

Scope: This course is designed to impart the fundamental knowledge on the regulatory requirements for approval of new drugs, and drug products in regulated markets of India & other countries like US, EU, Japan, Australia, UK etc. It prepares the students to learn in detail on the regulatory requirements, documentation requirements, and registration procedures for marketing the drug products.

Objectives: Upon completion of the subject student shall be able to;

1. Know about the process of drug discovery and development
2. Know the regulatory authorities and agencies governing the manufacture and sale of pharmaceuticals
3. Know the regulatory approval process and their registration in Indian and international markets

Course content:

Unit I

10Hours

New Drug Discovery and development

Stages of drug discovery, Drug development process, pre-clinical studies, non-clinical activities, clinical studies, Innovator and generics, Concept of generics, Generic drug product development.

Unit II

10Hours

Regulatory Approval Process

Approval processes and timelines involved in Investigational New Drug (IND), New Drug Application (NDA), Abbreviated New Drug Application (ANDA). Changes to an approved NDA / ANDA.

Regulatory authorities and agencies

Overview of regulatory authorities of India, United States, European Union, Australia, Japan, Canada (Organization structure and types of applications)

Unit III

10Hours

Registration of Indian drug product in overseas market

Procedure for export of pharmaceutical products, Technical documentation, Drug Master Files (DMF), Common Technical Document (CTD), electronic Common Technical



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Document (eCTD), ASEAN Common Technical Document (ACTD)research.

Unit IV

08Hours

Clinical trials

Developing clinical trial protocols, Institutional Review Board / Independent Ethics committee - formation and working procedures, Informed consent process and procedures, GCP obligations of Investigators, sponsors & Monitors, Managing and Monitoring clinical trials, Pharmacovigilance - safety monitoring in clinical trials

Unit V

07Hours

Regulatory Concepts

Basic terminology, guidance, guidelines, regulations, Laws and Acts, Orange book, Federal Register, Code of Federal Regulatory, Purple book



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11. Project Work, Final Yr. B. Pharm

BP813PW – Project work

All the students shall undertake a project under the supervision of a teacher and submit a report. The area of the project shall directly relate any one of the elective subject opted by the student in semester VIII. The project shall be carried out in group not exceeding 5 in number. The project report shall be submitted in triplicate (typed & bound copy not less than 25 pages).

The internal and external examiner appointed by the University shall evaluate the project at the time of the Practical examinations of other semester(s). Students shall be evaluated in groups for four hours (i.e., about half an hour for a group of five students). The projects shall be evaluated as per the criteria given below.

Evaluation of Dissertation Book:

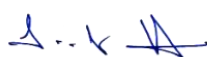
Objective(s) of the work done	15 Marks
Methodology adopted	20 Marks
Results and Discussions	20 Marks
Conclusions and Outcomes	20 Marks
Total	75 Marks

Evaluation of Presentation:

Presentation of work	25 Marks
Communication skills	20 Marks
Question and answer skills	30 Marks
Total	75 Marks

Explanation: The 75 marks assigned to the dissertation book shall be same for all the students in a group. However, the 75 marks assigned for presentation shall be awarded based on the performance of individual students in the given criteria.




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12. Human Anatomy Physiology (Both TH & PR), F.Y. Pharm

I.1 HUMAN ANATOMY & PHYSIOLOGY (THEORY)

Theory : 3 Hrs. /Week

1. **Scope and Objectives:** This course is designed to impart a fundamental knowledge on the structure and functions of the human body. It also helps in understanding both homeostasis mechanisms and homeostatic imbalances of various body systems. Since a medicament, which is produced by pharmacist, is used to correct the deviations in human body, it enhances the understanding of how the drugs act on the various body systems in correcting the disease state of the organs.
2. **Upon completion of the course the student shall be able to:**
 - a. describe the structure (gross and histology) and functions of various organs of the human body;
 - b. describe the various homeostatic mechanisms and their imbalances of various systems;
 - c. identify the various tissues and organs of the different systems of the human body;
 - d. perform the hematological tests and also record blood pressure, heart rate, pulse and Respiratory volumes;
 - e. appreciate coordinated working pattern of different organs of each system; and
 - f. appreciate the interlinked mechanisms in the maintenance of normal functioning (homeostasis) of human body

3. Course materials:

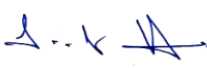
Text books

- a. Tortora Gerard J. and Nicholas, P. Principles of anatomy and physiology
Publisher Harpercollins college New York.
- b. Wilson, K.J.W. Ross and Wilson's foundations of anatomy and physiology.
Publisher: Churchill Livingstone, Edinburg.

Reference books

- a. Guyton arthur, C. *Physiology of human body*. Publisher: Holtsaunders.
- b. Chatterjee, C.C. *Human physiology*. Volume I&II. Publisher: medical allied agency, Calcutta.
- c. Peter L. Williams, Roger Warwick, Mary Dyson and Lawrence, H.
- d. *Gray's anatomy*. Publisher: Churchill Livingstone, London.




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4. Lecture wise program :

Topics

- 1 Scope of anatomy and physiology, basic terminologies used in this subject
(Description of the body as such planes and terminologies)
- 2 Structure of cell – its components and their functions.
- 3 Elementary tissues of the human body: epithelial, connective, Muscular and nervous tissues-their sub-types and characteristics
- 4 a) Osseous system - structure, composition and functions of the Skeleton. (done in practical classes - 6hrs)
b) Classification of joints, Types of movements of joints and disorders of joints
(Definitions only)
- 5 Haemopoetic System
 - a) Composition and functions of blood
 - b) Haemopoiesis and disorders of blood components (definition of disorder)
 - c) Blood groups
 - d) Clotting factors and mechanism
 - e) Platelets and disorders of coagulation
- 6 Lymph
 - a) Lymph and lymphatic system, composition, formation and circulation.
 - b) Spleen: structure and functions, Disorders
 - c) Disorders of lymphatic system (definition only)
- 7 Cardiovascular system
 - a) Anatomy and functions of heart
 - b) Blood vessels and circulation (Pulmonary, coronary and systemic circulation)
 - c) Electrocardiogram (ECG)
 - d) Cardiac cycle and heart sounds
 - e) Blood pressure – its maintenance and regulation
 - f) Definition of the following disorders
Hypertension, Hypotension, Arteriosclerosis, Atherosclerosis, Angina,
Myocardial infarction, Congestive heart failure, Cardiac arrhythmias
- 8 Respiratory system
 - a) Anatomy of respiratory organs and functions
 - b) Mechanism / physiology of respiration and regulation of respiration
 - c) Transport of respiratory gases
 - d) Respiratory volumes and capacities, and Definition of: Hypoxia, Asphyxia,
Dybarism, Oxygen therapy and resuscitation.
- 9 Digestive system
 - a) Anatomy and physiology of GIT
 - b) Anatomy and functions of accessory glands of GIT
 - c) Digestion and absorption
 - d) Disorders of GIT (definitions only)



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- 10 Nervous system
- a) Definition and classification of nervous system
 - b) Anatomy, physiology and functional areas of cerebrum
 - c) Anatomy and physiology of cerebellum
 - d) Anatomy and physiology of mid brain
 - e) Thalamus, hypothalamus and Basal Ganglia
 - f) Spinal cord: Structure & reflexes – mono-poly-planter
 - g) Cranial nerves – names and functions
 - h) ANS – Anatomy & functions of sympathetic & parasympathetic N.S.
- 11 Urinary system
- a) Anatomy and physiology of urinary system
 - b) Formation of urine
 - c) Renin Angiotensin system – Juxtaglomerular apparatus - acid base Balance
 - d) Clearance tests and micturition
- 12 Endocrine system
- a) Pituitary gland
 - b) Adrenal gland
 - c) Thyroid and Parathyroid glands
 - d) Pancreas and gonads
- 13 Reproductive system
- a) Male and female reproductive system
 - b) Their hormones – Physiology of menstruation
 - c) Spermatogenesis & Oogenesis
 - d) Sex determination (genetic basis)
 - e) Pregnancy and maintenance and parturition
 - f) Contraceptive devices
- 14 Sense organs
- a) Eye
 - b) Ear
 - c) Skin
 - d) Tongue & Nose
- 15 Skeletal muscles
- a) Histology
 - b) Physiology of Muscle contraction
 - c) Physiological properties of skeletal muscle and their disorders (definitions)
- 16 Sports physiology
- a) Muscles in exercise, Effect of athletic training on muscles and muscle performance,
 - b) Respiration in exercise, CVS in exercise, Body heat in exercise, Body fluids and salts in exercise,
 - c) Drugs and athletics



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1.1 HUMAN ANATOMY & PHYSIOLOGY (PRACTICAL)

Practical : 3 Hrs./Week

General Requirements: Dissection box, Laboratory Napkin, muslin cloth, record, Observation book(100pages), Stationary items, Blood lancet.

Course materials:

Text books

Goyal, R. K, Natvar M.P, and Shah S.A, Practical anatomy, physiology and biochemistry, latest edition, Publisher: B.S Shah Prakashan, Ahmedabad.

Reference books

Ranade VG, Text book of practical physiology, Latest edition, Publisher: PVG, Pune
Anderson Experimental Physiology, Latest edition, Publisher: NA

List of Experiments:

1. Study of tissues of human body
 - (a) Epithelial tissue.
 - (b) Muscular tissue.
2. Study of tissues of human body
 - (a) Connective tissue.
 - (b) Nervous tissue.
3. Study of appliances used in hematological experiments.
4. Determination of W.B.C. count of blood.
5. Determination of R.B.C. count of blood.
6. Determination of differential count of blood.
7. Determination of
 - (a) Erythrocyte Sedimentation Rate.
 - (b) Hemoglobin content of Blood.
 - (c) Bleeding time & Clotting time.
8. Determination of
 - (a) Blood Pressure.
 - (b) Blood group.
9. Study of various systems with the help of charts, models & specimens
 - (a) Skeleton system part I-axial skeleton.
 - (b) Skeleton system part II- appendicular skeleton.
 - (c) Cardiovascular system.
 - (d) Respiratory system.



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- (e) Digestive system.
- (f) Urinary system.
- (g) Nervous system.
- (h) Special senses.
- (i) Reproductive system.

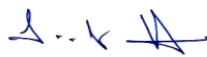
10. Study of different family planning appliances.
11. To perform pregnancy diagnosis test.
12. Study of appliances used in experimental physiology.
13. To record simple muscle curve using gastrocnemius sciatic nerve preparation.
14. To record simple summation curve using gastrocnemius sciatic nerve preparation.
15. To record simple effect of temperature using gastrocnemius sciatic nerve preparation.
16. To record simple effect of load & after load using gastrocnemius sciatic nerve preparation.
17. To record simple fatigue curve using gastrocnemius sciatic nerve preparation.

Scheme of Practical Examination:

	Sessionals	Annual
Identification	04	10
Synopsis	04	10
Major Experiment	07	20
Minor Experiment	03	15
Viva	02	15
Max Marks	20	70
Duration	03hrs	04hrs

Note : Total sessional marks is 30 (20 for practical sessional plus 10 marks for regularity, promptness, viva-voce and record maintenance).




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13. Pathophysiology, S.Y. Pharm D

2.1 PATHOPHYSIOLOGY (THEORY)

Theory : 3 Hrs. /Week

- 1. Scope of the Subject:** This course is designed to impart a thorough knowledge of the relevant aspects of pathology of various conditions with reference to its pharmacological applications, and understanding of basic Pathophysiological mechanisms. Hence it will not only help to study the syllabus of pathology, but also to get baseline knowledge of its application in other subject of pharmacy.
- 2. Objectives of the Subject :** Upon completion of the subject student shall be able to –
 - a. describe the etiology and pathogenesis of the selected disease states;
 - b. name the signs and symptoms of the diseases; and
 - c. mention the complications of the diseases.

Text books (Theory)

- a. Pathologic basis of disease by- Cotran, Kumar, Robbins
- b. Text book of Pathology- Harsh Mohan
- c. Text book of Pathology- Y.M. Bhide

Reference books (Theory)

- a. Clinical Pharmacy and Therapeutics; Second edition; Roger Walker; Churchill Livingstone publication

3. Detailed syllabus and lecture wise schedule :

Chapter

- 1 Basic principles of cell injury and Adaptation**
 - a) Causes, Pathogenesis and morphology of cell injury
 - b) Abnormalities in lipoproteinaemia, glycogen infiltration and glycogen infiltration and glycogen infiltration and glycogen storage diseases
- 2 Inflammation**
 - a) Pathogenesis of acute inflammation, Chemical mediators in inflammation, Types of chronic inflammation
 - b) Repairs of wounds in the skin, factors influencing healing of wounds
- 3 Diseases of Immunity**
 - a) Introduction to T and B cells
 - b) MHC proteins or transplantation antigens
 - c) Immune tolerance
 - Hypersensitivity
Hypersensitivity type I, II, III, IV, Biological significance, Allergy due to food, chemicals and drugs
 - Autoimmunity
Criteria for autoimmunity, Classifications of autoimmune diseases in man, mechanism of autoimmunity, Transplantation and immunologic tolerance, allograft rejections, transplantation antigens, mechanism of rejection of allograft.
 - Acquired immune deficiency syndrome (AIDS)



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- Amyloidosis
- 4 **Cancer:** differences between benign and malignant tumors, Histological diagnosis of malignancy, invasions and metastasis, patterns of spread, disturbances of growth of cells, classification of tumors, general biology of tumors, spread of malignant tumors, etiology and pathogenesis of cancer.
- 5 Types of shock, mechanisms, stages and management
- 6 Biological effects of radiation
- 7 Environmental and nutritional diseases
 - i) Air pollution and smoking- SO₂,NO, NO₂, and CO
 - ii) Protein calorie malnutrition, vitamins, obesity, pathogenesis of starvation.
- 8 Pathophysiology of common diseases
 - a. Parkinsonism
 - b. Schizophrenia
 - c. Depression and mania
 - d. Hypertension,
 - e. Stroke (ischaemic and hemorrhage)
 - f. Angina, CCF, Atherosclerosis, Myocardial infarction
 - g. Diabetes Mellitus
 - h. Peptic ulcer and inflammatory bowel diseases
 - i. Cirrhosis and Alcoholic liver diseases
 - j. Acute and chronic renal failure
 - k. Asthma and chronic obstructive airway diseases
- 9 Infectious diseases :
Sexually transmitted diseases (HIV,Syphilis,Gonorrhoea), Urinary tract infections, Pneumonia, Typhoid, Tuberculosis, Leprosy, Malaria Dysentery (bacterial and amoebic), Hepatitis- infective hepatitis.

4. Assignments :

Title of the Experiment

- 1 Chemical Mediators of inflammation
- 2 Drug Hypersensitivity
- 3 Cigarette smoking & its ill effects
- 4 Biological Effects of Radiation
- 5 Etiology and hazards of obesity
- 6 Complications of diabetes
- 7 Diagnosis of cancer
- 8 Disorders of vitamins
- 9 Methods in Pathology-Laboratory values of clinical significance
- 10 Pathophysiology of Dengue Hemorrhagic Fever (DHF)

Format of the assignment

- 1 Minimum & Maximum number of pages.
2. Reference(s) shall be included at the end.
3. Assignment can be a combined presentation at the end of the academic year
4. It shall be computer draft copy.
5. Name and signature of the student
6. Time allocated for presentation may be 8+2 Min.



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14. Community Pharmacy, S.Y. Pharm D

2.5 COMMUNITY PHARMACY (THEORY)

Theory : 2 Hrs. /Week

- 1. Scope:** In the changing scenario of pharmacy practice in India, Community Pharmacists are expected to offer various pharmaceutical care services. In order to meet this demand, students will be learning various skills such as dispensing of drugs, responding to minor ailments by providing suitable safe medication, patient counselling, health screening services for improved patient care in the community set up.
- 2. Objectives:** Upon completion of the course, the student shall be able to –
 - a. know pharmaceutical care services;
 - b. know the business and professional practice management skills in community pharmacies;
 - c. do patient counselling & provide health screening services to public in community pharmacy;
 - d. respond to minor ailments and provide appropriate medication;
 - e. show empathy and sympathy to patients; and
 - f. appreciate the concept of Rational drug therapy.

Text Books:

- a. Health Education and Community Pharmacy by N.S.Parmar.
- b. WHO consultative group report.
- c. Drug store & Business management by Mohammed Ali & Jyoti.

Reference books:

- a. Handbook of pharmacy – health care. Edt. Robin J Harman. The Pharmaceutical press.
- b. Comprehensive Pharmacy Review – Edt. Leon Shargel. Lippincott Williams & Wilkins.

Special requirements:

1. Either the college is having model community pharmacy (meeting the schedule N requirement) or sign MoU with at least 4-5 community pharmacies nearby to the college for training the students on dispensing and counselling activities.
2. Special equipments like B.P apparatus, Glucometer, Peak flow meter, and apparatus for cholesterol estimation.

3. Scheme of evaluation (80 Marks)

- | | |
|---|----|
| 1. Synopsis | 10 |
| 2. Major Experiment
(Counselling of patients with specific diseases – emphasis should be given on Counselling introduction, content, process and conclusion) | 30 |
| 3. Minor Experiment(Ability to measure B.P/ CBG / Lung function) | 15 |
| 4. Prescription Analysis (Analyzing the prescriptions for probable drug interaction and ability to tell the management) | 15 |
| 5. Viva – Voce | 10 |



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4. Lecture wise programme :

Topics

- 1 **Definition, scope, of community pharmacy**
Roles and responsibilities of Community pharmacist
- 2 **Community Pharmacy Management**
 - a) Selection of site, Space layout, and design
 - b) Staff, Materials- coding, stocking
 - c) Legal requirements
 - d) Maintenance of various registers
 - e) Use of Computers: Business and health care soft wares
- 3 **Prescriptions** – parts of prescription, legality & identification of medication related problems like drug interactions.
- 4 **Inventory control in community pharmacy**
Definition, various methods of Inventory Control
ABC, VED, EOQ, Lead time, safety stock
- 5 **Pharmaceutical care**
Definition and Principles of Pharmaceutical care.
- 6 **Patient counselling**
Definition, outcomes, various stages, barriers, Strategies to overcome barriers
Patient information leaflets- content, design, & layouts, advisory labels
- 7 **Patient medication adherence**
Definition, Factors affecting medication adherence, role of pharmacist in improving the adherence.
- 8 **Health screening services**
Definition, importance, methods for screening
Blood pressure/ blood sugar/ lung function
and Cholesterol testing
- 9 **OTC Medication- Definition, OTC medication list & Counselling**
- 10 **Health Education**
WHO Definition of health, and health promotion, care for children, pregnant & breast feeding women, and geriatric patients.
Commonly occurring Communicable Diseases, causative agents,
Clinical presentations and prevention of communicable diseases – Tuberculosis, Hepatitis, Typhoid, Amoebiasis, Malaria, Leprosy, Syphilis, Gonorrhoea and AIDS
Balance diet, and treatment & prevention of deficiency disorders
Family planning – role of pharmacist
- 11 **Responding to symptoms of minor ailments**
Relevant pathophysiology, common drug therapy to,
Pain, GI disturbances (Nausea, Vomiting, Dyspepsia, diarrhea, constipation), Pyrexia, Ophthalmic symptoms, worms infestations.
- 12 **Essential Drugs concept and Rational Drug Therapy**
Role of community pharmacist
- 13 **Code of ethics for community pharmacists**



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15. Pharmaceutical Jurisprudence, T.Y. Pharm D

3.4 PHARMACEUTICAL JURISPRUDENCE (THEORY)

Theory : 2 Hrs. /Week

- 1. Scope of the Subject:** (4-6 lines): This course exposes the student to several important legislations related to the profession of pharmacy in India. The Drugs and Cosmetics Act, along with its amendments are the core of this course. Other acts, which are covered, include the Pharmacy Act, dangerous drugs, medicinal and toilet preparation Act etc. Besides this the new drug policy, professional ethics, DPCO, patent and design Act will be discussed.
- 2. Objectives of the Subject:** Upon completion of the subject student shall be able to (Know, do, and appreciate) –
 - a. practice the Professional ethics;
 - b. understand the various concepts of the pharmaceutical legislation in India;
 - c. know the various parameters in the Drug and Cosmetic Act and rules;
 - d. know the Drug policy, DPCO, Patent and design act;
 - e. understand the labeling requirements and packaging guidelines for drugs and cosmetics;
 - f. be able to understand the concepts of Dangerous Drugs Act, Pharmacy Act and Excise duties Act; and
 - g. other laws as prescribed by the Pharmacy Council of India from time to time including International Laws.

Text books (Theory)

Mithal , B M. Textbook of Forensic Pharmacy. Calcutta :National; 1988.

Reference books (Theory)

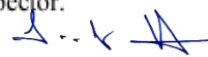
- a. Singh, KK, editor. Beotra's the Laws of Drugs, Medicines & cosmetics. Allahabad: Law Book House; 1984.
- b. Jain, NK. A Textbook of forensic pharmacy. Delhi: Vallabh prakashan ; 1995.
- c. Reports of the Pharmaceutical enquiry Committee
- d. I.D.M.A., Mumbai. DPCO 1995
- e. Various reports of Amendments.
- f. Deshapande, S.W. The drugs and magic remedies act 1954 and rules 1955. Mumbai: Susmit Publications; 1998.
- g. Eastern Book Company .The narcotic and psychotropic substances act 1985, Lucknow: Eastern; 1987.

3. Detailed syllabus and lecture wise schedule:

Title of the topic

1. **Pharmaceutical Legislations** – A brief review.
2. Principle and Significance of professional ethics. Critical study of the code of pharmaceutical ethics drafted by PCI.
3. **Drugs and Cosmetics Act, 1940, and its rules 1945.**
Objectives, Legal definition, Study of Schedule's with reference to Schedule B, C&C1, D, E1, F&F1, F2, F3, FF, G, H, J, K, M, N, P, R, V, W, X, Y.
Sales, Import, labeling and packaging of Drugs And Cosmetics
Provisions Relating to Indigenous Systems.
Constitution and Functions of DTAB, DCC, CDL.
Qualification and duties –Govt. analyst and Drugs Inspector.




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4. **Pharmacy Act –1948.**
Objectives Legal Definitions, General Study, Constitution and Functions of State & Central Council, Registration & Procedure, ER.
5. **Medicinal and Toilet Preparation Act –1955.**
Objectives, Legal Definitions, Licensing, Bonded and Non Bonded Laboratory, Ware Housing, Manufacture of Ayurvedic, Homeopathic, Patent & Proprietary Preparations.
6. **Narcotic Drugs and Psychotropic substances Act-1985 and Rules.** Objectives, Legal Definitions, General Study, Constitution and Functions of narcotic & Psychotropic Consultative Committee, National Fund for Controlling the Drug Abuse, Prohibition, Control and regulations, Schedules to the Act.
7. **Study of Salient Features of Drugs and magic remedies Act and its rules.**
8. **Study of essential Commodities Act Relevant to drugs price control Order.**
9. **Drug Price control Order & National Drug Policy (Current).**
10. **Prevention Of Cruelty to animals Act-1960.**
11. **Patents & design Act-1970.**
12. **Brief study of prescription and Non-prescription Products.**

4. Assignments:

Format of the assignment

1. Minimum & Maximum number of pages
2. It shall be a computer draft copy
3. Reference(s) shall be included at the end.
4. Name and signature of the student
5. Assignment can be a combined presentation at the end of the academic year.
6. Time allocated for presentation may be 8+2 Min

Case studies relating to

1. Drugs and Cosmetics Act and rules along with its amendments, Dangerous Drugs Act, Medicinal and Toilet preparation Act, New Drug Policy, Professional Ethics, Drugs (Price control) Order, Patent and Design Act.
2. Various prescription and non-prescription products.
3. Medical and surgical accessories.
4. Diagnostic aids and appliances available in the market.



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16. Regulatory Affairs, F.Y. M. Pharm (MPH)

REGULATORY AFFAIRS (MPH 104T)

Scope

Course designed to impart advanced knowledge and skills required to learn the concept of generic drug and their development, various regulatory filings in different countries, different phases of clinical trials and submitting regulatory documents : filing process of IND, NDA and ANDA

- To know the approval process of
- To know the chemistry, manufacturing controls and their regulatory importance
- To learn the documentation requirements for
- To learn the importance and

Objectives:

Upon completion of the course, it is expected that the students will be able to understand

- The Concepts of innovator and generic drugs, drug development process
- The Regulatory guidance's and guidelines for filing and approval process
- Preparation of Dossiers and their submission to regulatory agencies in different countries
- Post approval regulatory requirements for actives and drug products
- Submission of global documents in CTD/ eCTD formats
- Clinical trials requirements for approvals for conducting clinical trials
- Pharmacovigilance and process of monitoring in clinical trials.

THEORY

60 Hrs

1. a. **Documentation in Pharmaceutical industry:** Master formula record, DMF (Drug Master File), distribution records. Generic drugs product development Introduction , Hatch-Waxman act and amendments, CFR (CODE OF FEDERAL REGULATION) ,drug product performance, in-vitro, ANDA regulatory approval process, NDA approval process, BE and drug product assessment, in -vivo, scale up process approval changes, post marketing surveillance, outsourcing BA and BE to CRO.
b. **Regulatory requirement for product approval:** API, biologics, novel, therapies obtaining NDA, ANDA for generic drugs ways and means of US registration for foreign drugs



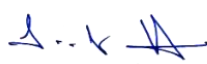
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- | | | |
|---|--|-----------|
| 2 | CMC, post approval regulatory affairs. Regulation for combination products and medical devices. CTD and ECTD format, industry and FDA liaison. ICH - Guidelines of ICH-Q, S E, M. Regulatory requirements of EU, MHRA, TGA and ROW countries. | 12
Hrs |
| 3 | Non clinical drug development: Global submission of IND, NDA, ANDA. Investigation of medicinal products dossier, dossier (IMPD) and investigator brochure (IB). | 12
Hrs |
| 4 | Clinical trials: Developing clinical trial protocols. Institutional review board/ independent ethics committee Formulation and working procedures informed Consent process and procedures. HIPAA- new, requirement to clinical study process, pharmacovigilance safety monitoring in clinical trials. | 12
Hrs |

REFERENCES

1. Generic Drug Product Development, Solid Oral Dosage forms, Leon Shargel and IsaderKaufer, Marcel Dekker series, Vol.143
2. The Pharmaceutical Regulatory Process, Second Edition Edited by Ira R. Berry and Robert P. Martin, Drugs and the Pharmaceutical Sciences, Vol.185, Informa Health care Publishers.
3. New Drug Approval Process: Accelerating Global Registrations By Richard A Guarino, MD, 5th edition, Drugs and the Pharmaceutical Sciences, Vol.190.
4. Guidebook for drug regulatory submissions / Sandy Weinberg. By John Wiley & Sons. Inc.
5. FDA regulatory affairs: a guide for prescription drugs, medical devices, and biologics/edited By Douglas J. Pisano, David Mantus.
6. Clinical Trials and Human Research: A Practical Guide to Regulatory Compliance By Fay A. Rozovsky and Rodney K. Adams
7. www.ich.org/
8. www.fda.gov/
9. europa.eu/index_en.htm
10. <https://www.tga.gov.au/tga-basics>




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17. Computer Aided Drug Development, F.Y. M. Pharm (MPH)

COMPUTER AIDED DRUG DEVELOPMENT (MPH 203T)

Scope

This course is designed to impart knowledge and skills necessary for computer Applications in pharmaceutical research and development who want to understand the application of computers across the entire drug research and development process. Basic theoretical discussions of the principles of more integrated and coherent use of computerized information (informatics) in the drug development process are provided to help the students to clarify the concepts.

Objectives

Upon completion of this course it is expected that students will be able to understand,

- History of Computers in Pharmaceutical Research and Development
- Computational Modeling of Drug Disposition
- Computers in Preclinical Development
- Optimization Techniques in Pharmaceutical Formulation
- Computers in Market Analysis
- Computers in Clinical Development
- Artificial Intelligence (AI) and Robotics
- Computational fluid dynamics(CFD)

THEORY

60 Hrs

1. a. **Computers in Pharmaceutical Research and Development:** A General Overview: History of Computers in Pharmaceutical Research and Development. Statistical modeling in Pharmaceutical research and development: Descriptive versus Mechanistic Modeling, Statistical Parameters, Estimation, Confidence Regions, Nonlinearity at the Optimum, Sensitivity Analysis, Optimal Design, Population Modeling 12 Hrs
b. **Quality-by-Design In Pharmaceutical Development:** Introduction, ICH Q8 guideline, Regulatory and industry views on QbD, Scientifically based QbD - examples of application.
2. **Computational Modeling Of Drug Disposition:** Introduction ,Modeling Techniques: Drug Absorption, Solubility, Intestinal Permeation, Drug Distribution ,Drug Excretion, Active Transport; P-gp, BCRP, Nucleoside Transporters, hPEPT1, ASBT, OCT, OATP, BBB-Choline Transporter. 12 Hrs



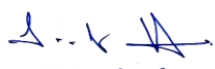
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- 3 **Computer-aided formulation development:** Concept of optimization, Optimization parameters, Factorial design, Optimization technology & Screening design. Computers in Pharmaceutical Formulation: Development of pharmaceutical emulsions, microemulsion drug carriers Legal Protection of Innovative Uses of Computers in R&D, The Ethics of Computing in Pharmaceutical Research, Computers in Market analysis 12 Hrs
- 4 a. **Computer-aided biopharmaceutical characterization:** Gastrointestinal absorption simulation. Introduction, Theoretical background, Model construction, Parameter sensitivity analysis, Virtual trial, Fed vs. fasted state, In vitro dissolution and *in vitro-in vivo* correlation, Biowaiver considerations 12 Hrs
- b. **Computer Simulations in Pharmacokinetics and Pharmacodynamics:** Introduction, Computer Simulation: Whole Organism, Isolated Tissues, Organs, Cell, Proteins and Genes.
- c. **Computers in Clinical Development:** Clinical Data Collection and Management, Regulation of Computer Systems
- 5 **Artificial Intelligence (AI), Robotics and Computational fluid dynamics:** General overview, Pharmaceutical Automation, Pharmaceutical applications, Advantages and Disadvantages. Current Challenges and Future Directions. 12 Hrs

REFERENCES

1. Computer Applications in Pharmaceutical Research and Development, Sean Ekins, 2006, John Wiley & Sons.
2. Computer-Aided Applications in Pharmaceutical Technology, 1st Edition, Jelena Djuris, Woodhead Publishing
3. Encyclopedia of Pharmaceutical Technology, Vol 13, James Swarbrick, James. G.Boylan, Marcel Dekker Inc, New York, 1996.




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18. Hazard & Safety Management, F.Y. M. Pharm (MQA)

HAZARDS AND SAFETY MANAGEMENT (MQA 201T)

Scope

This course is designed to convey the knowledge necessary to understand issues related to different kinds of hazard and their management. Basic theoretical and practical discussions integrate the proficiency to handle the emergency situation in the pharmaceutical product development process and provides the principle based approach to solve the complex tribulations.

Objectives

At completion of this course it is expected that students will be able to

- Understand about environmental problems among learners.
- Impart basic knowledge about the environment and its allied problems.
- Develop an attitude of concern for the industry environment.
- Ensure safety standards in pharmaceutical industry
- Provide comprehensive knowledge on the safety management
- Empower an ideas to clear mechanism and management in different kinds of hazard management system
- Teach the method of Hazard assessment, procedure, methodology for provide safe industrial atmosphere.

THEORY

60Hrs

1. **Multidisciplinary nature of environmental studies:** Natural Resources, Renewable and non-renewable resources, Natural resources and associated problems, a) Forest resources; b) Water resources; c) Mineral resources; d) Energy resources; e) Land resources
Ecosystems: Concept of an ecosystem and Structure and function of an ecosystem. **Environmental hazards:** Hazards based on Air, Water, Soil and Radioisotopes. 12 Hrs
2. **Air based hazards:** Sources, Types of Hazards, Air circulation maintenance industry for sterile area and non sterile area, Preliminary Hazard Analysis (PHA) Fire protection system: Fire prevention, types of fire extinguishers and critical Hazard management system. 12 Hrs
3. **Chemical based hazards:** Sources of chemical hazards, Hazards of Organic synthesis, sulphonating hazard, Organic solvent hazard, Control measures for chemical hazards, 12 Hrs



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Management of combustible gases, Toxic gases and Oxygen displacing gases management, Regulations for chemical hazard, Management of over-Exposure to chemicals and TLV concept.

- 4 **Fire and Explosion:** Introduction, Industrial processes and hazards potential, mechanical electrical, thermal and process hazards. Safety and hazards regulations, Fire protection system: Fire prevention, types of fire extinguishers and critical Hazard management system mechanical and chemical explosion, multiphase reactions, transport effects and global rates. Preventive and protective management from fires and explosion-electricity passivation, ventilation, and sprinkling, proofing, relief systems -relief valves, flares, scrubbers. 12 Hrs
- 5 **Hazard and risk management:** Self-protective measures against workplace hazards. Critical training for risk management, Process of hazard management, ICH guidelines on risk assessment and Risk management methods and Tools 12 Hrs
Factory act and rules, fundamentals of accident prevention, elements of safety programme and safety management, Physicochemical measurements of effluents, BOD, COD, Determination of some contaminants, Effluent treatment procedure, Role of emergency services.

REFERENCES

1. Y.K. Sing, Environmental Science, New Age International Pvt, Publishers, Bangalore
2. "Quantitative Risk Assessment in Chemical Process Industries" American Institute of Chemical Industries, Centre for Chemical Process safety.
3. Bharucha Erach, The Biodiversity of India, Mapin Publishing Pvt. Ltd., Ahmedabad – 380 013, India,
4. Hazardous Chemicals: Safety Management and Global Regulations, T.S.S. Dikshith, CRC press



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19. Audit & Regulatory Compliance, F.Y. M. Pharm (MQA)

AUDITS AND REGULATORY COMPLIANCE (MPA 203T)

Scope

This course deals with the understanding and process for auditing in pharmaceutical industries. This subject covers the methodology involved in the auditing process of different in pharmaceutical industries.

Objectives

Upon completion of this course the student should be able to

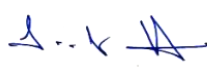
- To understand the importance of auditing
- To understand the methodology of auditing
- To carry out the audit process
- To prepare the auditing report
- To prepare the check list for auditing

THEORY

60 Hrs

1. **Introduction:** Objectives, Management of audit, Responsibilities, Planning process, information gathering, administration, Classifications of deficiencies 12 Hrs
2. **Role of quality systems and audits in pharmaceutical manufacturing environment:** cGMP Regulations, Quality assurance functions, Quality systems approach, Management responsibilities, Resource, Manufacturing operations, Evaluation activities, Transitioning to quality system approach, Audit checklist for drug industries. 12 Hrs
3. **Auditing of vendors and production department:** Bulk Pharmaceutical Chemicals and packaging material Vendor audit, Warehouse and weighing, Dry Production: Granulation, tableting, coating, capsules, sterile production and packaging. 12 Hrs
4. **Auditing of Microbiological laboratory:** Auditing the manufacturing process, Product and process information, General areas of interest in the building raw materials, Water, Packaging materials. 12 Hrs




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- 5 **Auditing of Quality Assurance and engineering department:** 12
Quality Assurance Maintenance, Critical systems: HVAC, Water, Hrs
Water for Injection systems, ETP.

REFERENCES

1. Compliance auditing for Pharmaceutical Manufacturers. Karen Ginsbury and Gil Bismuth, Interpharm/CRC, Boca Raton, London New York, Washington D.C.
2. Pharmaceutical Manufacturing Handbook, Regulations and Quality by Shayne Cox Gad. Wiley-Interscience, A John Wiley and sons, Inc., Publications.
3. Handbook of microbiological Quality control. Rosamund M. Baird, Norman A. Hodges, Stephen P. Denyar. CRC Press. 2000.
4. Laboratory auditing for quality and regulatory compliance. Donald C. Singer, Raluca-loana Stefan, Jacobus F. Van Staden. Taylor and Francis (2005).



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20. Computer Aided Drug design, F.Y. M. Pharm (MPC)

COMPUTER AIDED DRUG DESIGN (MPC 203T)

Scope

The subject is designed to impart knowledge on the current state of the art techniques involved in computer assisted drug design.

Objectives

At completion of this course it is expected that students will be able to understand

- Role of CADD in drug discovery
- Different CADD techniques and their applications
- Various strategies to design and develop new drug like molecules.
- Working with molecular modeling softwares to design new drug molecules
- The *in silico* virtual screening protocols

Theory

60 Hrs

1. Introduction to Computer Aided Drug Design (CADD)

12
Hrs

History, different techniques and applications.

Quantitative Structure Activity Relationships: Basics

History and development of QSAR: Physicochemical parameters and methods to calculate physicochemical parameters: Hammett equation and electronic parameters (σ), lipophilicity effects and parameters ($\log P$, π -substituent constant), steric effects (Taft steric and MR parameters) Experimental and theoretical approaches for the determination of these physicochemical parameters.

2. Quantitative Structure Activity Relationships: Applications

12
Hrs

Hansch analysis, Free Wilson analysis and relationship between them, Advantages and disadvantages; Deriving 2D-QSAR equations.

3D-QSAR approaches and contour map analysis.

Statistical methods used in QSAR analysis and importance of statistical parameters.

3. Molecular Modeling and Docking

12
Hrs

a) Molecular and Quantum Mechanics in drug design.

b) Energy Minimization Methods: comparison between global



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minimum conformation and bioactive conformation

- c) Molecular docking and drug receptor interactions: Rigid docking, flexible docking and extra-precision docking. Agents acting on enzymes such as DHFR, HMG-CoA reductase and HIV protease, choline esterase (AchE & BchE)

- 4 **Molecular Properties and Drug Design** 12
a) Prediction and analysis of ADMET properties of new molecules and its importance in drug design. Hrs
b) *De novo* drug design: Receptor/enzyme-interaction and its analysis, Receptor/enzyme cavity size prediction, predicting the functional components of cavities, Fragment based drug design.
c) Homology modeling and generation of 3D-structure of protein.
- 5 **Pharmacophore Mapping and Virtual Screening** 12
Concept of pharmacophore, pharmacophore mapping, Hrs
identification of Pharmacophore features and Pharmacophore modeling; Conformational search used in pharmacophore mapping.

In Silico Drug Design and Virtual Screening Techniques

Similarity based methods and Pharmacophore based screening, structure based *In-silico* virtual screening protocols.

REFERENCES

1. Computational and structural approaches to drug discovery, Robert M Stroud and Janet. F Moore, RCS Publishers.
2. Introduction to Quantitative Drug Design by Y.C. Martin, CRC Press, Taylor & Francis group..
3. Drug Design by Ariens Volume 1 to 10, Academic Press, 1975, Elsevier Publishers.
4. Principles of Drug Design by Smith and Williams, CRC Press, Taylor & Francis.
5. The Organic Chemistry of the Drug Design and Drug action by Richard B. Silverman, Elsevier Publishers.
6. Medicinal Chemistry by Burger, Wiley Publishing Co.



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Panchakshri Shivacharya Trust's

CHANNABASWESHWAR PHARMACY COLLEGE (DEGREE)

Kava Road, Basweshwar Chowk, Latur-413512 (Maharashtra) Tel./Fax :- (02382) 243855

DTE Code :- 2253, University Code :- 947, MSBTE Code :- 2041

Email:- channabasweshwar@gmail.com / principalcbpc@gmail.com Website:- www.channabasweshwar.org




Approved by:- Govt. of Maharashtra, PCI, New Delhi, Affiliated to:- S.R.T.M. University, Nanded, MSBTE, Mumbai.

2. Crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the curriculum by conducting various programs

Sr. No.	Programme	Issues Relevant to			
		Professional Ethics	Gender Equity	Human Values	Environment and Sustainability
A	Blood Donation Drive	--	--	√	--
B	Tree Plantation Drive	--	--	√	√
C	Women's equality and safety Drive	--	√	√	--
D	Health Camp Drive	--	--	√	--
E	Green consumer day	--	--	√	√
F	World health day	--	--	√	--
G	Dental check-up	--	--	√	--
H	Tobacco addiction	--	--	√	--
I	COVID-19 Drive	--	--	√	--
J	Pulse Polio Lasikaran Mohim	--	--	√	--

K	Environment protection	--	--	√	√
L	Road Safety Awareness	--	--	√	--
M	Women Empowerment, Ethics and Moralities Parallel with Modern World, Career Orientation	√	√	√	--
N	Legal Rights of Women	√	√	--	--




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A. Blood Donation Drive

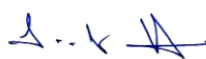
1) Blood donation camp (2022-23)

On the occasion of death anniversary of Lingekya Puja Channabaswaguru Guru Panchakshari Mahaswamiji N.S.S. Unit, Channabasweshwar Pharmacy College (Degree), Latur organized blood donation camp in collaboration with Mauli Blood Bank on 04th February 2023 in college campus. Through this camp 63 individuals were donated blood. On that occasion, Secretary Mr. Bhimashankar Devnikar, Principal, teaching, non-teaching staff members and students were present



Blood donation camp was organized by NSS unit of Channabasweshwar Pharmacy College (Degree), Latur on date 04/02/2023




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2) Blood donation camp (2019-20)

On the Occasion of Channabaswaguru Mahaswamiji's Death Anniversary, the NSS unit in association with the Bhalchandra Blood Bank, Latur organized a Blood Donation Camp at Channabasweshwar Pharmacy College (Degree), Latur from 10.00 am onwards on Date 04/02/2020. The inauguration of the camp was done by Principal Channabasweshwar Pharmacy College (Degree), Latur. In this camp nearly 30 volunteers and college students including the programme officer donated the blood.

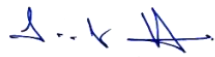


Bhalchandra Blood Bank, Latur organized a Blood Donation Camp at Channabasweshwar Pharmacy College (Degree), Latur.



On this event of Blood Donation Camp Students and Volunteers actively participated on Date 04/02/2020




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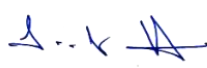
3) Blood donation camp (2018-19)

On the Occasion of Channabaswaguru guru Mahaswamiji's Death Anniversary NSS unit in association with the Bhalchandra Blood Bank, Latur organized a Blood Donation Camp at Channabasweshwar Pharmacy College (Degree), Latur from 10.00 am onwards on Date 04/02/2019. The inauguration of the camp was done by Principal Channabasweshwar Pharmacy College, Latur. In this camp near about 30 volunteers and college students including the Programme officer donated blood



Blood donation camp organized by Bhalchandra Blood Bank with NSS unit of Channabasweshwar Pharmacy College (Degree), on dated 04/02/2019, at this moment teaching staff, non-teaching staff and students actively participated




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B. Tree Plantation Drive

1) Tree plantation (2022-23)

“Tree Plantation Drive” at Manjra River Bank, Salgara (Bk.), Tq. & Dist. Latur

Collector's office, Latur, in collaboration with the N.S.S. Unit, Channabasweshwar Pharmacy College (Degree), Latur, organized Tree Plantation Drive at Manjra River Bank, Salgara (Bk.), Tq. & Dist. Latur on 24th July 2022 at 11:11 am. On this occasion, the Collector of Latur District, Honorable B.P. Prithviraj, Zilla Parishad Chief Executive Officer, Honorable Abhinav Goyal, Former MLA, Honorable Pasha Patel, Deputy Collector, Honorable Nitin Waghmare, the College Teaching and non-teaching staff members as well as students were present.

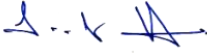


Tree Plantation by Collector of Latur district Honorable B.P. Prithviraj dated 24/07/2022



Tree Plantation by college students dated 24/07/2022




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Appreciation Certificate by Latur District Collector dated 24/07/2022



News of the event



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2) Tree Plantation at Sikandarpur (2022-23)

"Environment "and "Trees "became the important aspect to save earth from Global warming. N.S.S. Unit, Channabasweshwar Pharmacy College (Degree), Latur organized "Tree Plantation Drive "at Sikandarpur. On, Tq. Dist. Latur On 25th January 2023. The main aim of tree plantation drive was to create Awareness among the people regarding the importance of trees and they Could lead the country to a 'green' revolution. During this drive, more than 50 trees planted in crematorium of Sikandarpur. On this occasion, Mrs. Reshma Gambhire (Sarpanch Sikandarpur), Mr. Madhavrao Gambhire (Sarpanch Master Trainer YASHADA), Mr. Mahesh Manke (NSS) Programme Officer), NSS volunteers and villagers were actively participated.



Tree Plantation drive organized by NSS unit Channabasweshwar Pharmacy College (Degree) Latur at Sikandarpur village arranged street play by NSS Volunteers.




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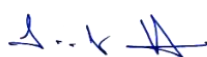
3) “Tree Plantation” (2021-22)

On 5th July 2021, Channabasweshwar Pharmacy College (Degree), Latur successfully completed the event of Tree Plantation under the National Service Scheme at college campus. The students were encouraged to plant tree as we all know that the whole world is facing the problem of global warming. The event was begun with the principal advice to NSS volunteer and staff members to think differently for the society to make the positive changes towards the nature. All students were informed about the “One Student-One Tree Campaign”. On that occasion, Principal Dr. Vijayendra Swamy S. M. staff and students moved towards the place and planted the trees.



Principal, Dr Vijayendra Swamy S. M. staff members and students planting the trees




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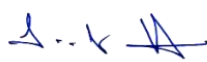
4) “Tree Plantation” (2020-21)

On 5th July 2020, Channabasweshwar Pharmacy College (Degree), Latur successfully completed the event of Tree Plantation under the National Service Scheme at college campus. Despite the challenges of the COVID-19 pandemic, our college has conducted tree plantation programme by following COVID-19 rules and regulations. On that occasion, staff members of our college moved towards the place and planted the trees.



Staff members planting the trees

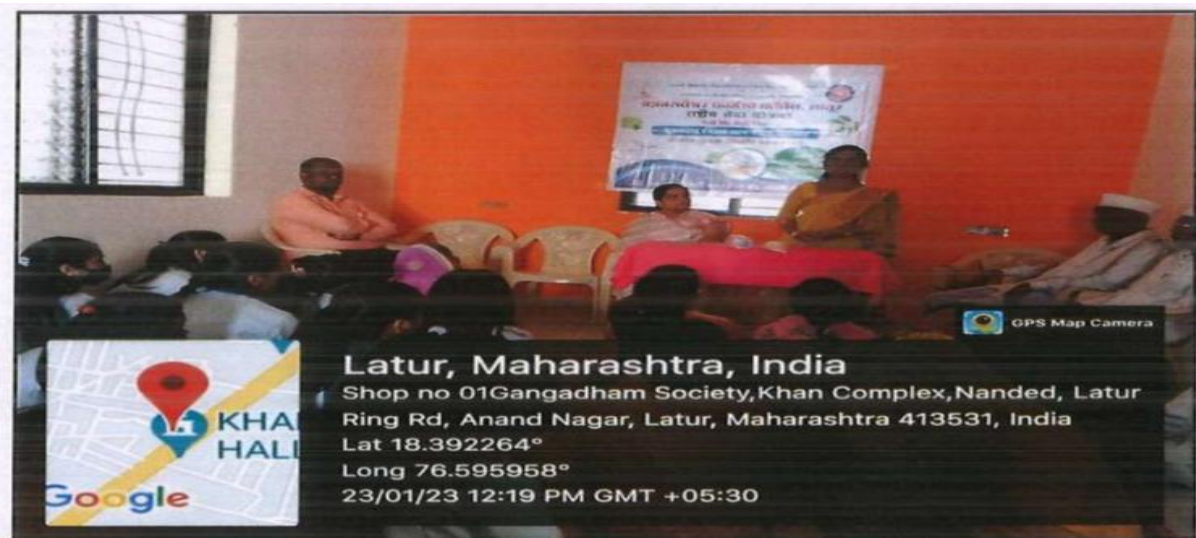



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C. Women's Equality & Safety Drive

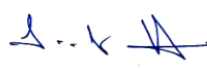
1) Women Safety and Security (2022-23)

Women's Safety & Security seminar was organized on 23 January 2023 at 11:00 am by the NSS Unit of Channabasweshwar Pharmacy College (Degree), Latur at Sikandarpur village. Mrs. Uma Vyas, Senate Member, Swami Ramanand Teerth Marathwada University Nanded, got as a speaker for this session. The main objective of this seminar was to make women employable, and to support their ability to work in groups. On that session, Principal Dr. O. G. Bhusnure, Mrs. Reshma Gambhire (Sarpanch), Mr. Shyamrao Gambhire, Mr. Mahesh Manke, Women's of Sikandarpur, villagers and NSS volunteers were present.



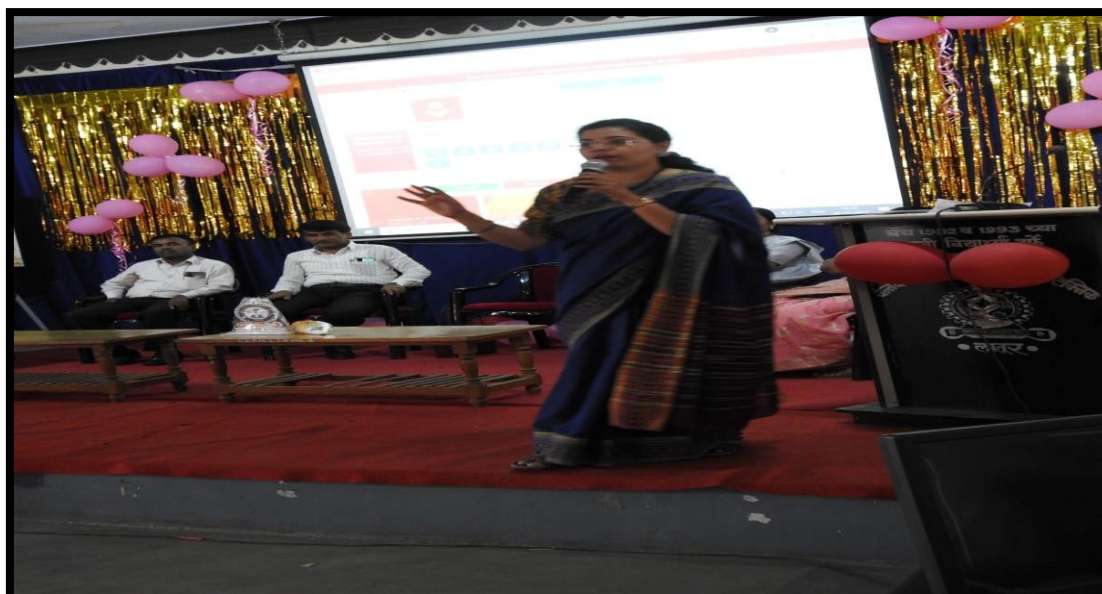
Mrs. Uma Vyas guiding on topic Women Safety and Security




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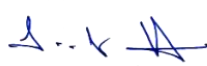
2) Embrace Equality (Women's Day Celebration) (2022-23)

On the occasion of International Women's Day, Channabasweshwar Pharmacy College (Degree), Latur organized Embrace Equality dated on 08/03/2023. Dr. Apurva Ungratwar, consultant Psychiatrist from Latur was the main speaker for this programme. To promote Embrace Equality among students and faculties the programme was conducted. Principal Dr. Bhusnure Omprakash Gadgeppa, Prof. Dr. Nagoba S. N. were also especially present for the event. Inauguration speech of the event was done by Ms. Zingade S. J. and vote of thanks was given by Ms. Gaikwad V.M.



Dr. Apurva Ungratwar guiding to all women




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3) Mission Sahasi Programme for Women Self Defence

Channabasweshwar Pharmacy College (Degree) Latur organized Programme **Mission Sahasi for Women Self Defence** On Date 13/12/2018, Time- 12:00 am onwards at Auditorium hall of our College. The programme was anchored by Ms. Giram Padmaja Sidram, for this program Ms. Prajakta Bhosale, Akhil Bharatiya Vidyarthi Parishad Latur were invited. Dr. Bhushure Omprakash Gadgeppa from Channabasweshwar Pharmacy College (Degree), felicitated the guests and delivered a welcome speech. Mrs. Giram Padmaja Sidram, Mr. Bhosale were present mainly & and vote of thanks was proposed by Mr. Kaudewar D.R. To promote the women self-defence, programme mission Sahasi was successfully completed.



Glimpses Of Mission Sahasi Programme for Women Self Defence



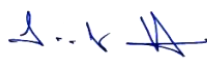
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Felicitation and inaugural of program Women Self Defence




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4) Sanitary Pad Disposal Workshop

Channabasweshwar Pharmacy College (Degree) Laturhas organized workshop on **Sanitary Pad Disposal** on 01/03/2019 Time- 11:00 am onwards Girl students, ladies and gent's faculties participated in this workshop. Mrs. Nirmala Thormote, the social activist from Latur was the main speaker for this programme.

To promote proper Disposal of sanitary pad the programme was conducted. Channabasweshwar Pharmacy College (Degree) Latur, organized one day "**Sanitary Pad Disposal Workshop**" on 01/03/2019; from 11:00 am to 2:00 pm. Dr. Bhusnure Omprakash Gadgeppa from Channabasweshwar Pharmacy College (Degree), felicitated the guests and delivered a welcome speech. Dr. Sanjay S. Thonte, Principal Channabasweshwar (Polytechnic) College Latur, Prof. Nagoba S. N., Dr. Sakhare R., Mr. Kaudewar D. R., Mr. Bhosale were actively participated in the programme. Mrs. Nirmala Thormote first gave the brief introduction about disposal method and various reason behind sanitary pad disposal. She discussed about social mentality behind the use & Sanitary Pad Disposal.

The programme was anchored by Dr. Bhusnure Omprakash Gadgeppa, and vote of thanks was proposed by Dr. Sanjay S. Thonte, Channabasweshwar (Polytechnic) College Latur



Delivering the speech on sanitary pad disposal



5) Gender Equality

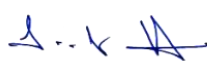
Our college Channabasweshwar Pharmacy College (Degree) Latur organized **Gender Equality** on Date 13/12/2022, Time- 4 pm in Auditorium Hall of our College.

Girl students, ladies and Gents faculties participated in this workshop. Sanjivani Sabnis who was a secretary of Bhartiya Stree Shakti, Umma Vyas, Dr. Sunita Kamdar & Meena Bhosale was the member of Bhartiya Stree Shakti was main guest for this programme. To promote gender equality among students and faculties the programme was conducted. Dr. Bhusnure Omprakash Gadgeppa principal, Channabasweshwar Pharmacy College (Degree), Latur were present for the inaugural ceremony. The programme was anchored by Dr. Giram Padmaja Sidram and vote of thanks was proposed by Ms. Gaikwad V.M



Glimpses of Workshop on gender equality 13/12/2022




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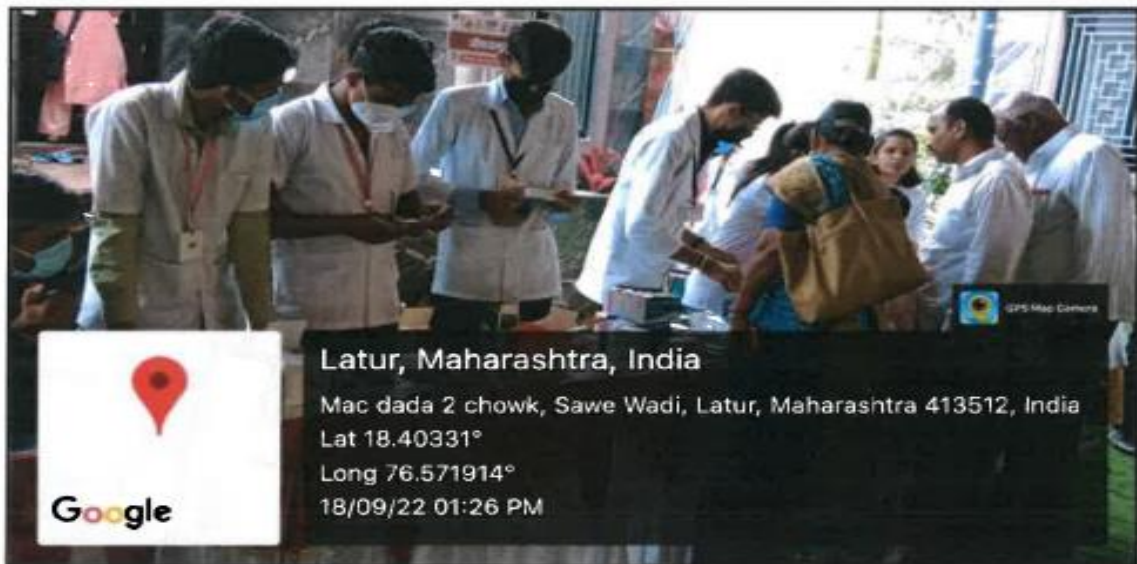
D. Health Camp Drive

1) Mega Health Checkup Camp (2022-23)

Shri. Shri. Shri. 1008 Nutan Kashi Jagadguru Dr. Mallikarjuna Vishwaradhya Shivacharya Mahaswamiji Gaurav Sohla Free Health Checkup Camp was organized on 18th September 2022 at Dewanji Mangal Karyalaya, Savewadi. Latur in association with Sai Foundation and NSS Unit, Channabasweshwar Pharmacy College, Latur. Through this camp, patients were examined by well-known physicians and free medicines were distributed to them. On this occasion Principal, teachers, non-teaching staff and students of the college were present.

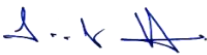


Health Checkup by NSS Volunteers



Distribution of Medicines by NSS Volunteers




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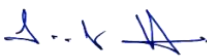
2) “Health and Hygiene Camp for Women” (2022-23)

On the occasion of the " Pharmacy Week celebration "Channabasweshwar Pharmacy College (Degree), Latur. Organized “**Health and Hygiene Camp for women**” On this occasion chief guest, Dr. Dhange C.R Madam Ankur Hospital, Latur gives valuable guidance on women’s health and hygiene. All the volunteers worked with full enthusiasm Different parameters of girls were checked like Blood pressure, Haemoglobin, Respiration rate BMR etc. There was a huge response from girls & women. On the occasion, Principal Dr. O. G. Bhusnure, Dr. Deshpande A.N., Dr. Shivaraj Nagoba, along with the Cultural coordinator, NSS coordinator, college staff and students were present and succeeded in the program.



On this occasion chief guest, Dr. Dhange C.R. Madam Ankur Hospital, Latur gives valuable guidance on women’s health and hygiene.




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3) Health Checkup Camp Sikandarpur Village (2022-23)

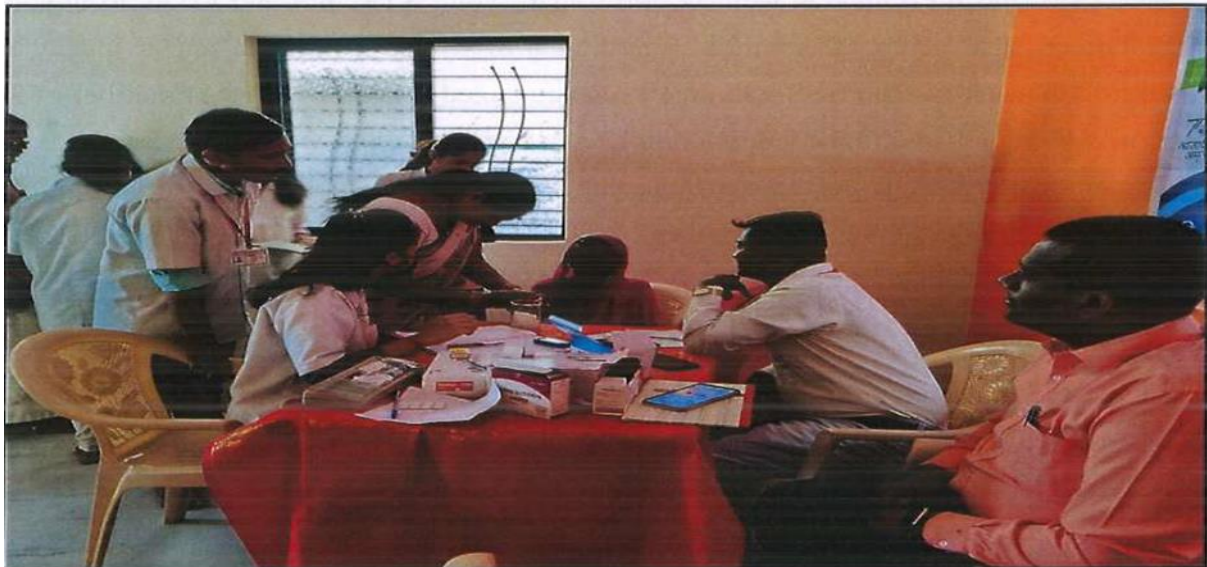
A medical health checkup camp had been set up at Sikandarpur on 20th January 2023 by the NSS Unit of Channabasweshwar Pharmacy College (Degree), Latur. In the camp, proper medical treatment of the people of Sikandarpur and nearby area was done and remedial measures were provided free of cost, including the basic medicines required for an early recovery. During this camp, various health parameters like Blood Pressure, BMI, Blood Sugar, and Haemoglobin of villagers were evaluated. After that, patients were sent to doctors where they were appropriately given the right directions regarding their health. The doctors carefully listened to the problems that patients were facing and provided an appropriate solution to cure it. Majority of the people were suffering from high low blood pressure and blood sugar. The camp lasted for four hours, from 11 am to 3 pm. More than 80 people attended health checkup camp.



Dr. Pratap Ege expressing his thoughts on health awareness during NSS special Camp.

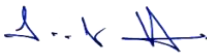



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Health Checkup program during NSS special camp AT Sikandarpur Village on date 20/01/2023.




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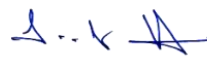
4) Atal Maha-Arogya Camp (2018-19)

The Atal Maha Shibir has been organized in the name of late Prime Minister Atal Bihari Vajpayee. The name of Atal, which has been given to this camp by looking after his passion and generosity, is very meaningful; Chief Minister Fadnavis said that through this camp no needy patients will be deprived of healthcare. He said that the basic needs of education, and health have been provided to them as well as food, clothing, and shelter and the government is making efforts to reach them. Medical College Latur & National Service Scheme of Channabasweshwar Pharmacy College, Latur, **Atal Maha-Arogya Camp** was organized on 07/10/2018 at 11.00 am. For this Camp Principal of Channabasweshwar Pharmacy College, teaching staff, non-Teaching staff and students actively participated.



Medical College Latur & National Service Scheme of Channabasweshwar Pharmacy College (Degree), Latur, Atal Maha-Arogya Camp was organized on 07/10/2018 at 11.00 am. Govt. Medical College Medical Officer Diagnose and NSS students of CBPC Latur distribute free medicines to needy patients.




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E. Green Consumer Day

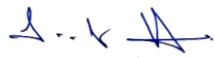
1) “Green Consumer Day” (2022-23)

MIDSR Dental College, Latur in collaboration with N.S.S. Unit, Channabasweshwar Pharmacy College (Degree), Latur celebrated “Green Consumer Day” on 28/09/2022 at 11:00 am. Mr. Rahul Bobe, an environmental consultant at the municipal corporation, Latur was invited as guest speaker. On that occasion Dr. Suresh Kamble, Dr. Omkumar Baghele, Dr. Vijayalaxmi Male, Mr. Mahesh Manke, Ms. Snehal Jogdand, NSS volunteers and students were present.



Mr. Rahul Bobe delivering a lecture on Green Consumer Day dated 28/09/2022




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F. World Heart Day


World Heart Day (2022-23)

NSS unit, Channabasweshwar Pharmacy College, Latur in collaboration with Rotary Club, Latur, Rotaract Club, Latur, Shivpuje Heart Care, Latur organized a heart awareness rally on 29/09/2022 at morning 6 am. The principal, teachers, non-teaching staff, NSS Volunteers, and students were present on that occasion



NSS Volunteers participated in World Heart Day Awareness Rally

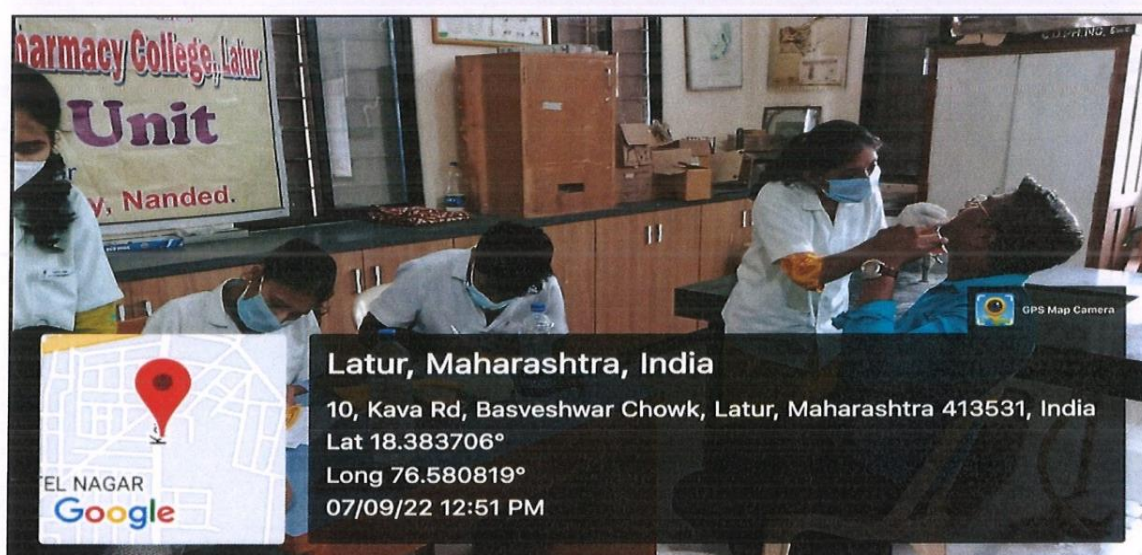



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G. Dental Checkup Camp


Dental Checkup Camp (2022-23)

N.S.S. Unit, Channabasweshwar Pharmacy College (Degree), Latur in collaboration with MIDSR Dental College, Latur was organized dental checkup camp at Channabasweshwar Pharmacy College (Degree), Latur. The camp was conducted by N.S.S. team under the supervision of Dr. Vilas Dhumal, Dr. Rutuja Dahifale, Dr. Trupti Gayke, Dr. Shruti Deshmukh, Dr. Rahul Pinate, Dr. Rushikesh Sugave, Dr. Shreyash Dungarwal, Dr. Pragati Jondhale, and Dr. Shrikant Patil. On that occasion Principal Dr. S.S. Thonte, Principal Dr. O.G. Bhusnure, Teaching, Non-teaching staff and students were present.



Dentists of MIDSR College, Latur Checking Teeth of Staff and Students




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H. Tobacco Addict free and Mental Health Balancing Campaign

Tobacco Addict free and Mental Health Balancing Campaign (2021-22)

On behalf of the National Service Scheme of Channabasweshwar Pharmacy College (Degree), Latur, on the occasion of the Amrit Mahotsav of Independence Day, on 28th December 2021, at 11.00 am, a Tobacco Addiction and Mental Health Balancing Campaign was organized in the presence of the principal, faculty the staff of the college.



Expertise given message to students related to Tobacco use is the largest single cause of preventable mortality and morbidity worldwide and it is strongly associated with a variety of mental illnesses. On Date: 28/12/2021.



I. COVID-19 Drive

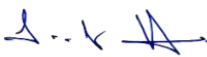
1) COVID -19 Vaccination “Booster dose Camp” (2022-23)

NSS unit, Channabasweshwar Pharmacy College, Latur in collaboration with UPHC, Tawarja Colony, Latur organized Covid-19 Booster Dose Camp at Channabasweshwar Pharmacy College, Latur on 09/07/2022 at morning 11:00 am onwards. The camp was conducted under the supervision of Dr. Yogesh Achane, Medical officer, UPHC, Tawarja Colony, Latur. On that occasion, Principal Dr. S. S. Thonte, Principal Dr. O. G. Bhusnure, Mrs. Surwase S. S., Teaching, Non-teaching staff, NSS Volunteers and students were present.



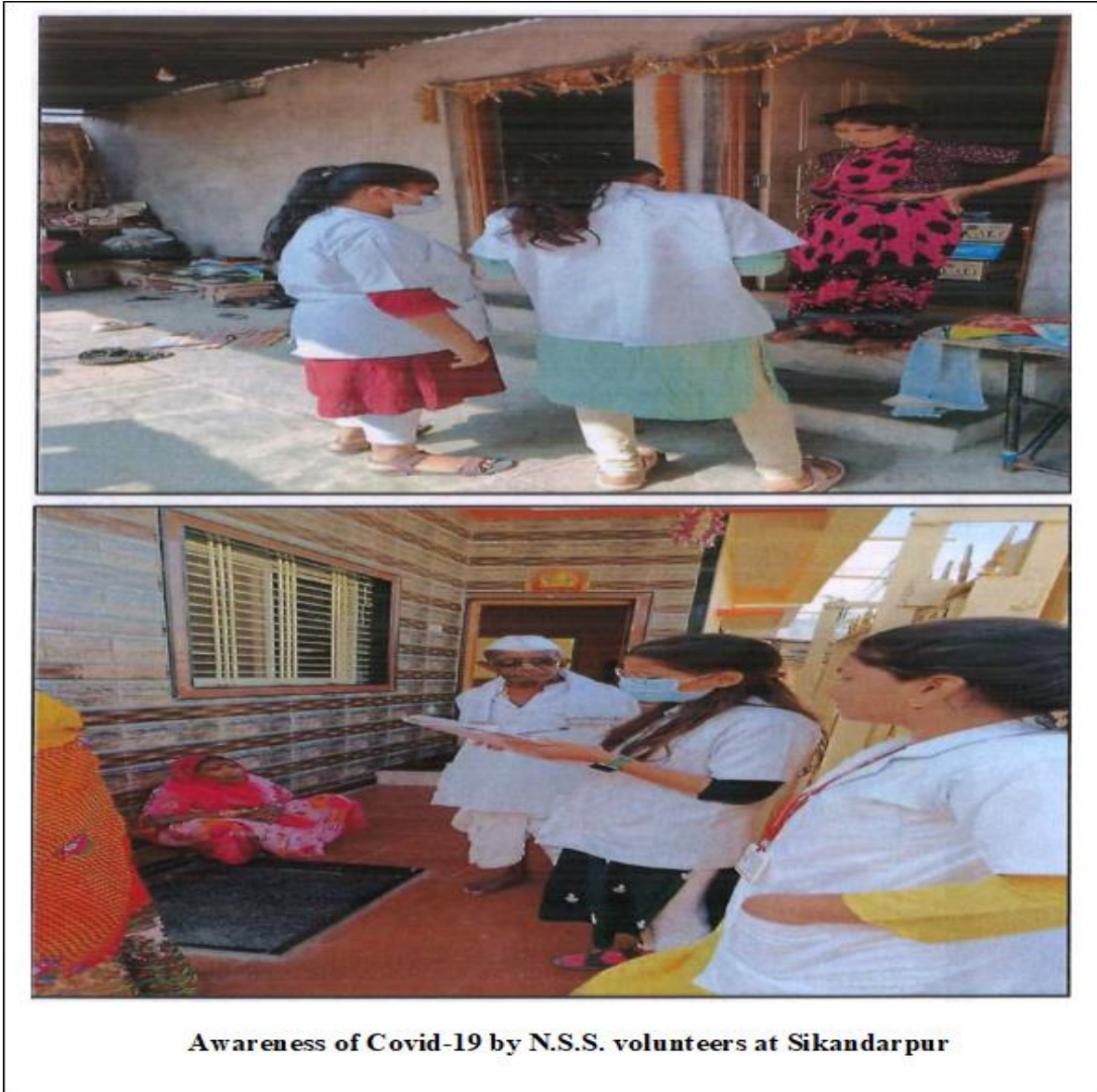
Snapshots during Covid-19 Booster Dose Vaccination Camp

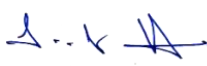



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2) Corona Awareness Program (2022-23)

N.S.S. Unit of Channabasweshwar Pharmacy College (Degree), Latur organized Corona awareness program at Sikandarpur village on date 24/01/2023. For this program NSS volunteers actively participated and they were award the people of Sikandarpur regarding precautions and prevention to be taken to avoid Covid-19.




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3) Corona Preventive Vaccination (2021-22)

On 27th October 2021 at 11.00 PM Corona preventive vaccination campaign was organized on behalf of National Service Scheme at Channabasweshwar Pharmacy College (Degree), Latur for society peoples and faculties of college. Corona preventive vaccination campaign was organized by Latur Metropolitan Municipality and NSS unit of Channabasweshwar Pharmacy College (Degree), Latur.




Dr. Anant Deshpande sir expresses valuable information regarding COVID-19 vaccination camping in the presence of respected dignitaries on dies.



COVID-19 Vaccination Campaign for Society and Faculties, Society peoples actively participated in this Campaign on Date 27/10/2021.




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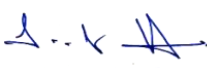
4) Anti -Corona check Post (2020-21)

NSS Unit of Channabasweshwar Pharmacy College (Degree),Latur. Of NSS department volunteer work as an Anti-Corona force warrior at Chakur. Anti Corona check post they worked to save life and Health awareness for Corona. Anti-Corona Task Force with volunteers across the places working on war foot, round the clock at all levels of Village.



Anti corona Force Check post for saving community and awareness of health, NSS Volunteers providing message regarding corona awareness to public.




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J. Pulse Polio Lasikaran Mohim Drive


1) Pulse Polio Lasikaran Mohim (2021-22)

Pulse Polio Vaccination Campaign was conducted on 28/02/2022 from 8 AM to 5 PM on behalf of National Service Scheme at Latur City and Municipal Corporation and Channabasweshwar Pharmacy College (Degree), Latur. The inauguration of the camp was done by Principal Channabasweshwar Pharmacy College (Degree), Latur. In this camp near about 20 volunteers and college students including program officer actively participated.



Pulse Polio Vaccination Campaign for Children, From Society parents were actively participated in this Campaign with their children on Date 28/02/2022.




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2) Pulse Polio Vaccination 2020-21

The Pulse Polio Vaccination Campaign was conducted on 31/01/2021 from 8 am to 5 pm at Latur City by Latur Metropolitan municipality and Channabasweshwar Pharmacy College (Degree). The inauguration of the camp was done by Principal Channabasweshwar Pharmacy College, Latur. In this camp, nearly 20 volunteers and college students including the program officer actively participated.



Pulse Polio Vaccination Campaign for Children, From Society parents actively participated in this Campaign with their children on Date 31/01/2021




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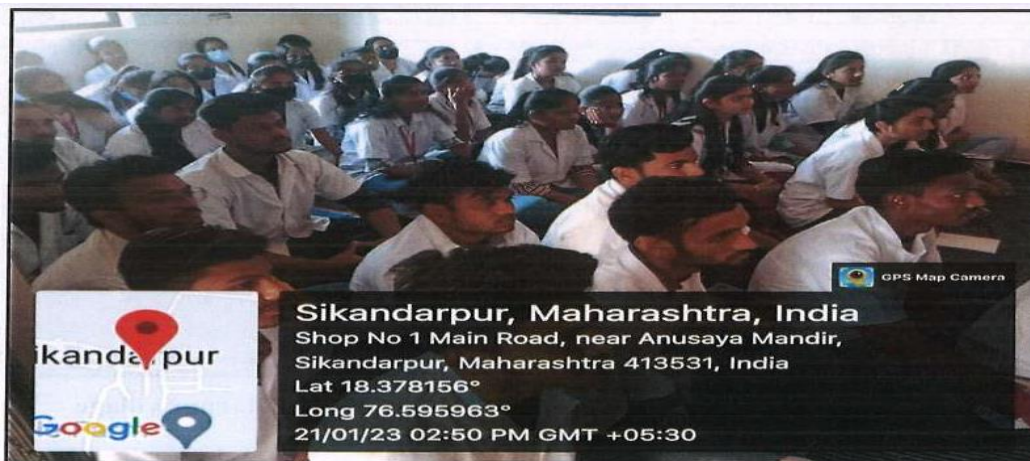
K. Environment Protection

Environment protection seminar (2022-23)

Environment protection seminar was organized on 21 January 2023 at 3:00 pm by the NSS Unit of Channabasweshwar Pharmacy College (Degree), Latur at Sikandarpur village. Mr. Rahul Bobe, Environment Consultant, Latur City Municipal Corporation, got as a speaker for this session. The main objective of this seminar was to help the social groups and individuals to acquire knowledge of pollution and environmental degradation. During this seminar session. Mr. Rahul Bobe guided about pollution control, waste management and recycling of waste materials. Environment protection helps to maintain our life healthy as well.

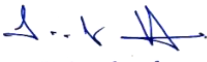


Mr. Rahul Bobe guiding villagers and NSS volunteers on topic Environment Protection



Villagers and NSS volunteers present for Environment Protection Seminar




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L. Road Safety Awareness Rally

Road Safety Awareness Rally (2019-20)

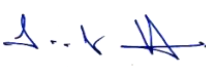
The NSS Unit, Channabasweshwar Pharmacy College (Degree), Latur, in association with the renowned Showroom Shoppers Stop in Latur, organized the "Road Safety Awareness Rally" on 24th February 2020. NSS Unit emphasized on the importance of road safety and safe driving and riding habits and appealed to the students to sensitize the public. On that occasion, the Principal, Teaching staff, non-Teaching staff and students actively participated for the campaign.



Student and Staff participation in road safety awareness rally

Dated 04/02/2020




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M. Women Empowerment, Ethics and Moralities Parallel with Modern World, Career Orientation

Women Empowerment, Ethics and Moralities Parallel with Modern World, Career Orientation

Channabasweshwar Pharmacy College (Degree) Latur organized Seminar on the subject **Women Empowerment, Ethics and Moralities Parallel with Modern World, Career Orientation** on Date 16/12/2022, Time- 12:30 pm onwards in S8 Hall of our College. This program was chaired by Dr. Giram Padmaja Sidram, for this program Ms. Madiha Farheen Patel was Eminent Speaker as she was Financial Associate in Genpact Bangalore. In this program Dr. Bhusnure Omprakash Gadgeppa, principal Channabasweshwar Pharmacy College (Degree), Miss. Zingade S.G. were present mainly.

Ms. Madiha Farheen Patel was given the brief introduction about Women Empowerment and various Ethics and Moralities, what is the meaning of workplace. She guided about what things included in Women Empowerment. Vote of thank and concluding speech given by Miss. Zingade S.G.

Panchakshari Shivacharya Trust, Aloor

CHANNABASWESHWAR
PHARMACY COLLEGE (DEGREE), LATUR

Organized by
Women's Grievance Cell

Topic
*Women Empowerment, Ethics and Moralities
Parallel with Modern World, Career Orientation*

Eminent Speaker
Madiha Farheen Patel
Financial Associate in Genpact Bangalore.

16 December 2022

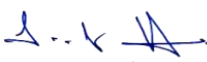
12.30 PM Onward

S-8 Hall

Co-ordinator
Dr. Giram P.S.
Miss. Zingade S. G.

Dr. Bhusnure O.G.
Principal
Channabasweshwar Pharmacy College (Degree), Latur

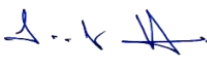



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**Seminar on Women Empowerment, Ethics and Moralities Parallel with Modern World,
Career Orientation on Date 16/12/2022**




Principal
Channabasweshwar Pharmacy
College (Degree), Latur

N. Legal Rights of Women

Legal Rights of Women


Channabasweshwar Pharmacy College (Degree) Latur organized Seminar on the subject **Legal Rights of Women** on Date 22/06/2023, Time- 4:30 pm at Auditorium Hall of our College. This program was chaired by Ms. Zingade S.G., for this program Adv. Nayana Nagnath Devtalkar was Eminent Speaker. In this program Dr. Vijayendra Swamy S. M, principal Channabasweshwar Pharmacy College (Degree), Anchoring of the event was done by Dr. Jette Nikita. Dr. Giram Padmaja Sidram, Miss. Zingade S.G. were present mainly.

Adv. Nayana Nagnath Devtalkar first gave the brief introduction about Legal Rights of Women, different types of rights for women and Legal procedure. She guided about what things and laws included in Indian Constitution. Vote of thank and concluding speech given by Mr. Manke M. B.



Seminar On the Subject Legal Rights of Women on Date 22/06/2023




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