



VIGHNAHARATA TRUST

SHIVAJIRAO S. JONDHLE COLLEGE OF PHARMACY, ASANGAON.

TAL.- SHAHAPUR, DIST.- THANE (M.S.) -421 601

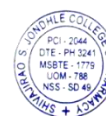
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Affiliated to MSBTE & University of Mumbai

02527-272399 | Mob: 9594962018 | ssjcop3241@gmail.com

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

PEOs	Descriptions
PEO 1	Students shall be having strong knowledge to promote awareness among patients and healthcare professionals regarding the safe usage of medication and medical devices.
PEO 2	Work closely with healthcare professional to improve patient care and established effective communication with patients .
PEO 3	Manage and maintain pharmacy inventory to ensure availability of needed medication or analyzers by the ethics.
PEO 4	Guide or educate patients on topics such as disease management, preventive care and over the counter drugs or medications therapy.
PEO 5	To motivate the students for higher education, team spirit, marketing and technical knowledge.




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PROGRAM OUTCOME

PO's		Descriptions
PO1	Pharmacy knowledge	Possess knowledge and comprehension of the core and basic knowledge associated with the profession of pharmacy.
PO2	Modern tool usage	Learn, select, and apply appropriate methods and procedures, resources, and modern pharmacy-related computing tools with an understanding of the limitations.
PO3	Leadership skills	Understand and consider the human reaction to change, motivation issues, leadership and team-building when planning changes required for fulfillment of practice, professional and societal responsibilities. Assume participatory roles as responsible citizens or leadership roles when appropriate to facilitate improvement in health and wellbeing.
PO4	Professional identity	Understand, analyze and communicate the value of their professional roles in society (e.g. health care professionals, promoters of health, educators, managers, employers, employees).
PO5	Pharmaceutical ethics	Honor personal values and apply ethical principles in professional and social contexts. Demonstrate behavior that recognizes cultural and personal variability in values, communication and lifestyles. Use ethical frameworks; apply ethical principles while making decisions and take responsibility for the outcomes associated with the decisions.
PO6	Communication	Communicate effectively with the pharmacy community and with society at large, such as, being able to comprehend and write effective reports, make effective presentations and documentation, and give and receive clear instructions.
PO7	The pharmacist and society	Apply reasoning informed by the contextual knowledge to assess societal, health, safety and legal issues and the consequent responsibilities relevant to the professional pharmacy practice.
PO8	Environment and sustainability	Understand the impact of the professional pharmacy solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO9	Lifelong learning	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. Self-assess and use feedback effectively from others to identify learning needs and to satisfy these needs on an ongoing





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COURSE OUTCOMES

F.Y D.PHARMACY THEORY (ER 91)

COURSE:- PH-I

SUB:- Pharmaceutics - I

SR.NO.	COURSE OUTCOME'S
C101.1	Understand & classify different dosage form and different pharmacopoeias
C101.2	Apply to calculation including conversion from another system, desirable feature of a container, type of Containers and method size reduction.
C101.3	Understand principle, working of various instrument size separation, mixing and homogenization, clarification and filtration, extraction and galenicals, evaporation.
C101.4	Understand principal, construction, working of various instruments, distillation, drying, sterilization, tablet, capsule, immunological product.

COURSE:- PH-I

SUB:- Pharmaceutical Chemistry-I

SR.NO.	COURSE OUTCOME'S
C102.1	Able to define acid base, antioxidant, GIT, antimicrobial agent, respiratory stimulant, antidote, etc.
C102.2	To understand the classification of antioxidants, GIT, antimicrobial agent, respiratory stimulant, antidote, etc.
C102.3	Able to apply knowledge of various medicinal drugs to solve health problems.
C102.4	Analyze the different cation & anion by using specific identification test of cation and anion
C102.5	Able to investigate the drug sample whether it is pure or impure.
C102.6	Able to apply appropriate technology of measurement of radio activity.

COURSE:- PH-I

SUB:- Pharmacognosy

SR.NO.	COURSE OUTCOME'S
C103.1	Understand history, scope of pharmacognosy & indigenous system of medicines.
C103.2	Compare various system of classification of natural drugs and memories pharmacognosy of various categories of drugs.
C103.3	Study adulteration, drug evaluation and state pharmacognosy of various categories of drugs.
C103.4	Describe various chemical nature of crude drugs.
C103.5	Discuss collection and preparation of crude drugs for the market.
C103.6	Classify fibers use in sutures & Surgical dressings & memories pharmacognosy of various categories of drugs.



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COURSE:- PH-I

SUB:- Biochemistry and Clinical Pathology

SR.NO.	COURSE OUTCOME'S
C104.1	Able to state cell, carbohydrate, lipid, protein, vitamin.
C104.2	To understand the classification of cell, carbohydrate, lipid, protein, vitamin.
C104.3	Able to apply knowledge of various symptoms and treatment of disease to solve health problems.
C104.4	Able to understand and describe the structure and function of cell, various metabolism cycle involved in human body.
C104.5	Able to investigate the symptoms of disease, abnormalities of carbohydrate, lipid, protein and normal count WBC, RBC, Platelets.
C104.6	Demonstrate the knowledge of biological important of carbohydrate, lipid, protein, vitamin, symptoms and treatment of various diseases.

COURSE:- PH-I

SUB:- Human Anatomy and Physiology

SR.NO.	COURSE OUTCOME'S
C105.1	Study concept of anatomy and physiology, structure of cell, tissues of body.
C105.2	Classify skeleton, discuss composition of blood, its function, blood group, and disorders of blood.
C105.3	Understand the lymphatic and cardiovascular system.
C105.4	Describe the urinary system, respiratory system, their parts, function and differentiate various skeletal muscles.
C105.5	Memories the anatomy and physiology of nervous system and special sense organs.
C105.6	Define the anatomy and physiology of digestive system, reproductive system and endocrinology.

COURSE:- PH-I

SUB:- Health Education and Community pharmacy

SR.NO.	COURSE OUTCOME'S
C106.1	Understand the concept of health, nutrition, disease, nutrition deficiency disease, its treatment and prevention.
C106.2	Utilize information related to demography & family planning.
C106.3	Execute first aid, demonstrate environment and health.
C106.4	Classify microbes, describe isolation and staining techniques of microbes.
C106.5	State the communicable and non communicable diseases and distinguish among them.
C106.6	Evaluate the different , methods of epidemiology.



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S.Y D.PHARMACY THEORY (ER 91)

COURSE:-PH-II

SUB:- Pharmaceutics-II

SR.NO.	COURSE OUTCOME'S
C201.1	Understand of prescription calculation involved in prescription and incompatibilities in prescription.
C201.2	Able to method of preparation while theoretical and practical aspects, use of appropriate container, closure and special labelling requirements, storage condition of powder.
C201.3	Understand of theoretical aspects including commonly used vehicles, essential adjuvants like stabilizers, colourants and flavours with examples of monophasic, biphasic liquid oral dosage form.
C201.4	Understand principal, type, classification of ointments and pastes.
C201.5	Understand principal, type, classification, merits and demerits of suppositories and pessaries, dental and cosmetic preparation.
C201.6	Understand principal, type, classification, merits and demerits of sterile dosage form.

COURSE:- PH-II

SUB:- Pharmaceutical Chemistry-II

SR.NO.	COURSE OUTCOME'S
C202.1	Define category of pharmaceutical organic compound.
C202.2	Understand the classification of pharmaceutical organic compound according to category.
C202.3	Apply knowledge of various medicinal drug to solve health problems.
C202.4	Understand the describe structure, IUPAC, Chemical properties, uses of organic compound.
C202.5	Investigate the drug content from its dosage form with the help of brand name.
C202.6	Demonstrate the knowledge of medicinal drug uses to access social, health, safety, and consequent responsibility.



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COURSE:- PH-II

SUB:- Hospital and Clinical Pharmacy

SR.NO.	COURSE OUTCOME'S
C206.1	Define hospital, Hospital pharmacy and drug distribution system in hospital.
C206.2	Formulate sterile and non-sterile manufacture & use of surgical instruments, hospital equipments and health accessories.
C206.3	Understand PTC, DIS surgical dressing & application of computers.
C206.4	State the clinical pharmacy practice, modern dispensing aspects & terminology used in the practice of medicine.
C206.5	Describe pathophysiology, symptoms of disease, physiological parameter, drug interaction & ADR.
C206.6	Recognize drugs in clinical toxicity drug abuse, drug dependence, bioavailability of drug.




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F.Y D.PHARMACY PRACTICAL (ER 91)

COURSE :- PH-I	SUB:- Pharmaceutics
SR.NO.	COURSE OUTCOME'S
C101.1	Students can be able to prepare and evaluate different pharmaceutical dosage forms.
C101.2	Students can able to prepare and dispense parenteral products.
C101.3	Student can able to formulate various cosmetics products.
C101.4	To understand the packaging storage, application and handling of the different formulations.

COURSE :- PH-I	SUB:- Pharmaceutical Chemistry
SR.NO.	COURSE OUTCOME'S
C102.1	To identify inorganic drugs and pharmaceuticals by using various chemicals Method
C102.2	To assess the purity by evaluating range the impurities in inorganic drugs and Pharmaceutical
C102.3	Understanding of the basic concepts of acidity /basicity, buffers and tonicity applicable in pharmaceuticals
C102.4	To build an idea about quantitative analysis through performing assay of inorganic pharmaceuticals by carrying out various volumetric titrations

COURSE :- PH-I	SUB:- Pharmacognosy
SR.NO.	COURSE OUTCOME'S
C103.1	To learn the usage of different instrument for identification of crude drugs.
C103.2	Identify the given crude drugs based on the morphological characteristics.
C103.3	Able to identify unorganized drugs by chemical methods
C103.4	To apply different techniques in analysing drugs from natural origins



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COURSE :- PH-I	SUB:- Biochemistry and Clinical Pathology
SR.NO.	COURSE OUTCOME'S
C104.1	To identify Explain the biochemical processes, metabolism of biomolecules, and various enzymes in the field of clinical diagnosis.
C104.2	Demonstrate practical knowledge on the identification and detection methods of biomolecules.
C104.3	To learn Demonstrate understanding and handling of microscope and sampling procedures.
C104.4	To apply various routes of drug administration and blood samples withdrawal technique.

COURSE :- PH-I	SUB:- Human Anatomy and Physiology
SR.NO.	COURSE OUTCOME'S
C105.1	To study, the structure and functions of the various organs system of the human body.
C105.2	To study the different methods of blood collection techniques.
C105.3	To learn microscopic examination of Permanent slide.
C105.4	To study, analyse and the haematological tests and also record the blood pressure, heart rate, pulse rate and respiratory volumes



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S.Y D.PHARMACY PRACTICAL (ER 91)

COURSE: -PH-II

SUB: -Pharmaceutics-II

SR.NO.	COURSE OUTCOME'S
C201.1	It is emphasized to learn prescriptions including their translation, calculation and suitability for technical modality. For e.g. mixtures, lotions, and liniments, ointments, creams, syrups, suppositories, etc.
C201.2	To understand the prescription and identify the type of formulation and preparation.
C201.3	To prepare the different types of dosage forms and their uses, advantages, disadvantages, adverse effect, mode of action, etc.
C201.4	To learn the medicinal pharmacy, dispensing, formulating, industrial knowledge, career based, etc.

COURSE:- PH-II

SUB:- PC-II

SR.NO.	COURSE OUTCOME'S
C202.1	Perform qualitative test to systematically identify the unknown chemical substance.
C202.2	Synthesize the selected chemical substance as per standard synthetic scheme.
C202.3	To study the melting point & boiling point of different organic and inorganic compounds.
C202.4	To identify the different elements and functional groups present in organic and inorganic compounds.

COURSE:- PH-II

SUB:- P&T

SR.NO.	COURSE OUTCOME'S
C203.1	To study the effect of local anesthetic on rabbit cornea.
C203.2	To study the action of strychnine on frog and effect of digitalis on frog's heart.
C203.3	To study the effect of potassium and calcium ions, ACh and adrenaline on frog's heart.
C203.4	To study the effect of mydriatics & myotics on rabbit's eye and also to study the hypnotics, convulsants, anti-convulsants in mice, frog, rat, etc. (During the pyrogen testing)



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COURSE:- PH-II

SUB:- Hospital and Clinical Pharmacy

SR.NO.	COURSE OUTCOME'S
C204.1	Dispensing, manufacturing of narcotic and other prescribed drugs in pharmaceuticals bulk.
C204.2	Preparations of injectables, injections, etc.
C204.3	To study the different types of sterilizers (autoclave, hot air oven, membrane filters, surgical instruments, syringes, needles and glasswares, rubber gloves, rubber tubines, hospital fabrics, surgical dressings, etc.)
C204.4	To evaluate absorbent cotton wool by IP and to determine the holding capacity of absorbent cotton wool, no. of threads per 10cm.



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F.Y D.PHARMACY THEORY (ER 20)

COURSE:- PH 1

SUB:- PHARMACEUTICS

SR.NO.	COURSE OUTCOME'S
C101.1	Describe about the different dosage forms and their formulation aspects .
C101.2	Explain the advantages ,disadvantages,and quality control tests of different dosage forms.
C101.3	Discuss the impotance of quality assuarance and good manufacturing practices

COURSE:- PH 1

SUB:-PHARMACEUTICAL CHEMISTRY

SR.NO.	COURSE OUTCOME'S
C102.1	Describe the chemical class, structure and chemical name of the commonly used drug and pharmaceutical of both organic and inorganic nature.
C102.2	Discuss the pharmacological uses, dosage regimen, stability issues and storage condition of all such chemical substances commonly used as drugs.
C102.3	Describe the quantitative and qualitative analysis, impurity testing of chemical substance given in the official monographs.
C102.4	identify the dosage form and the brand name of the drugs and pharmaceuticals popular in the market place.



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COURSE:- PH 1

SUB:- PHARMACOGNOSY

SR.NO.	COURSE OUTCOME'S
C103.1	Identify the important / common crude drugs of natural origin occurrence, distribution, isolation, identification test of common phytoconstituents. Therapeutic activity and pharmaceutical application of various natural drug substances and phytoconstituents.
C103.2	Describe the uses of herbs in nutraceuticals and cosmeceuticals application of herbs in health food and cosmetics.
C103.3	Discuss the principles of alternative system of medicine. Therapeutic activity and pharmaceutical application of various natural drug substances and phytoconstituents.
C103.4	Describe the important aspects of quality control of drugs of natural origin. Basic concepts in quality control of crude drugs and various systems of medicines.

COURSE:- PH 1

SUB:- HUMAN ANATOMY AND PHYSIOLOGY

SR.NO.	COURSE OUTCOME'S
C104.1	Describe the various organ systems of the human body.
C104.2	Discuss the anatomical features of the important human organs and tissues.
C104.3	Explain the homeostatic mechanism regulating the normal physiology in the human system.
C104.4	Discuss the significance of various vital physiological parameters of the human body.

COURSE:- PH 1

SUB:- SOCIAL PHARMACY

SR.NO.	COURSE OUTCOME'S
C104.1	Discuss about the roles of pharmacists in the various national health programs.
C104.2	Describe various sources of health hazards and disease preventive measures.
C104.3	Discuss the healthcare issues associated with food and nutritional substances.
C104.4	Describe the general roles and responsibilities of pharmacists in public health.



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S.Y D.PHARMACY THEORY (ER 20)

COURSE:- PH-II

SUB:- PHARMACOLOGY

SR.NO.	COURSE OUTCOME'S
C201.1	Describe the basic condition of pharmacokinetic and pharmacokinetic.
C201.2	Enlist the various classes and drugs of choices for any given disease conditions.
C201.3	Advice the dosage regimen, route of administration and contraindication of given drugs.
C201.4	Describe the common adverse drug reaction.

COURSE:- PH-II

SUB:-COMMUNITY PHARMACY AND MANAGEMENT

SR.NO.	COURSE OUTCOME'S
C202.1	Describe the establishment, legal requirements and effective administration of a community pharmacy.
C202.2	Professional handle prescription and dispense medication.
C202.3	Counsel patient about the disease, prescription and non- prescription medicine.
C202.4	Perform basic health screening on patient and interpret the reports in the community pharmacy setting.

COURSE:- PH-II

SUB:-Biochemistry and clinical pathology

SR.NO.	COURSE OUTCOME'S
C203.1	Describe the function of biomolecule.
C203.2	Discuss catalytic activity, diagnostic and therapeutic importance of enzyme the various function of enzyme the human system
C203.3	Explain the metabolic pathway of biomolecule in both physiological and pathological condition, metabolic pathway of biomolecules in health and illness (metabolic disorder)
C203.4	Describe the principles of organ function tests and their clinical significance
C203.5	Determine the biomolecules/ metabolites in the given biological sample, both qualitative and quantitative.
C203.6	Describe the clinical pathology of blood and urine.



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COURSE:- PH-II

SUB:- PHARMACOTHERAPEUTICS

SR.NO.	COURSE OUTCOME'S
C204.1	Help assign the subjective and objective parameters of patient in common disease condition
C204.2	Assist other health care providers to analyse drug related problems and provide therapeutic intervention.
C204.3	Participate in planning the rational medicine therapy for common disease
C204.4	Design and deliver discharge counselling for patients.

COURSE:- PH-II

SUB:- HOSPITAL AND CLINICAL PHARMACY

SR.NO.	COURSE OUTCOME'S
C205.1	Explain about the basic concept of hospital pharmacy administration
C205.2	Manage the supply chain and distribution of medicine within the hospital setting
C205.3	Assist the other healthcare provider in monitoring drug therapy and address drug related
C205.4	Interpret common lab investigation reports for optimizing drug therapy.

COURSE:- PH-II

SUB:- PHARMACY LAW AND ETHICS

SR.NO.	COURSE OUTCOME'S
C206.1	Describe the history and evaluation of pharmacy law in India
C206.2	Interpret the act and rules regulating the profession and practice of pharmacy in india
C206.3	Discuss the various code of ethics related to practice standards in pharmacy.
C206.4	Interpret the fundamentals of patent law from the perspective of pharmacy



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F.Y D.PHARMACY PRACTICAL(ER20)

COURSE:- PH-I

SUB:- Pharmaceutics

SR.NO.	COURSE OUTCOME'S
C101.1	Calculate the working formula from the given master formula.
C101.2	Formulate the dosage form and dispense in a appropriate container.
C101.3	Design the label with necessary product and patient information.
C101.4	Perform the basic quality control test for common dosage form.

COURSE:- PH-I

SUB:- Pharmaceutical Chemistry

SR.NO.	COURSE OUTCOME'S
C102.1	Perform the limit test for various inorganic elements and reports.
C102.2	Prepare standard solution using the principle of volumetric analysis.
C102.3	Test the purity of selected inorganic and organic compounds against monograph standards.
C102.4	Synthesize the selected chemical substance as per standard synthetic scheme.
C102.5	Perform qualitative test to systematically identified the unknown chemical substance.

COURSE:- PH-I

SUB:- Pharmacognosy

SR.NO.	COURSE OUTCOME'S
C103.1	Identify the given crude drugs based on the morphological characteristics.
C103.2	Take a transverse section of the given crude drugs.
C103.3	Describe the anatomical characteristics of the given crude drug under microscopical conditions.
C103.4	Carry out the physical and chemical tests to evaluate the given crude drugs.



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COURSE:- PH-I

SUB:- Human Anatomy and Physiology

SR.NO.	COURCE OUTCOME'S
C104.1	Perform the haematological test in human subjects and interpret the results.
C104.2	Record, monitor and documents the vital physiological parameters of human subject and interpret the results.
C104.3	Describe the analytical features of the important human tissues under the microscopical conditions.
C104.4	Discuss the significance of various anatomical and physiological characteristics of the human body.

COURSE:- PH-I

SUB:- Social Pharmacy

SR.NO.	COURCE OUTCOME'S
C105.1	Describe the roles and responsibilities of pharmacists in various national health programs.
C105.2	Design promotional material for public health awareness
C105.3	Describe various health hazards including microbial source.
C105.4	Advice on preventing measures for various disease.
C105.5	Provide first aid for various emergency conditions.



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S.Y D PHARMACY (20) PRACTICAL

COURSE:-PH-II

SUB:-Pharmacology

SR.NO	COURCE OUTCOME'S
C201.1	Study and report the local anaesthetic, mydriatic and mitotic effect of the given drug on the rabbit eye.
C201.2	Coose appropriate animal experiment model to study the effects of the given drug acting drugs acting on the central nervous system and submit the reports.
C201.3	Perform the effect of given tissues (simulated) on isolated organs / tissues and interpret the results.
C201.4	Interpret the dose independent responses of drug in various animal experiment model.

COURSE:- PH-II

SUB:- Community Pharmacy and Management

SR.NO.	COURCE OUTCOME'S
C202.1	Handle and fill prescription in a professional manner.
C202.2	Counsel patient on various disease and minor ailments.
C202.3	Counsel patient on prescription and or non - prescription medicine.
C202.4	Design and prepare patient information leaflets.
C202.5	Perform basic health screening tests.



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COURSE:- PH-II SUB:- Biochemistry and Clinical Pathology

SR.NO.	COURCE OUTCOME'S
C203.1	Qualitatively determine the biomolecules / metabolites in simulated biological samples.
C203.2	Determine the normal and abnormal constituents in blood and urine sample and interpret the results of such testing.

COURSE:- PH-II SUB:- Pharmacotherapeutics

SR.NO.	COURCE OUTCOME'S
C204.1	Write SOAP For the given clinical cases of selected common disease.
C204.2	Council the patient about the disease conditions, uses of drugs, methods of handling and administraton of drug, lifestyle modifications and monitoring parameter.

COURSE:- PH-II SUB: Hospital and Clinical Pharmacy

SR.NO.	COURCE OUTCOME'S
C205.1	Professionaly handle and answer the drug information queries.
C205.2	Interpret the common laboratory reports.
C205.3	Report suspected adverse drug reaction using standards procedures.
C205.4	Understand the uses and methods of handling various medical / surgical aids and devices.
C205.5	Interprete and report the drug-drug interaction in common disease for optimizing the drug therapy.