

Course Description

Recommended Books (Latest Editions)

1. Principles of Biochemistry by Lehninger.
2. Harper's Biochemistry by Robert K. Murry, Daryl K. Granner and Victor W. Rodwell.
3. Biochemistry by Stryer.
4. Biochemistry by D. Satyanarayan and U.Chakrapani
5. Textbook of Biochemistry by Rama Rao.
6. Textbook of Biochemistry by Deb.
7. Outlines of Biochemistry by Conn and Stumpf
8. Practical Biochemistry by R.C. Gupta and S. Bhargavan.
9. Introduction of Practical Biochemistry by David T. Plummer. (3rd Edition)
10. Practical Biochemistry for Medical students by Rajagopal and Ramakrishna.
11. Practical Biochemistry by Harold Varley.

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



- **Basic mechanism involved in the process of inflammation and repair:**
Introduction, Clinical signs of inflammation, Different types of Inflammation, Mechanism of Inflammation – Alteration in vascular permeability and blood flow, migration of WBC's, Mediators of inflammation, Basic principles of wound healing in the skin, Pathophysiology of Atherosclerosis

Unit II

10Hours

- **Cardiovascular System:**
Hypertension, congestive heart failure, ischemic heart disease (angina, myocardial infarction, atherosclerosis and arteriosclerosis)
- **Respiratory system:** Asthma, Chronic obstructive airways diseases.
- **Renal system:** Acute and chronic renal failure

Unit II

10Hours

- **Haematological Diseases:**
Iron deficiency, megaloblastic anemia (Vit B12 and folic acid), sickle cell anemia, thalassemia, hereditary acquired anemia, hemophilia
- **Endocrine system:** Diabetes, thyroid diseases, disorders of sex hormones
- **Nervous system:** Epilepsy, Parkinson's disease, stroke, psychiatric disorders: depression, schizophrenia and Alzheimer's disease.
- **Gastrointestinal system:** Peptic Ulcer

Unit IV

8 Hours

- Inflammatory bowel diseases, jaundice, hepatitis (A,B,C,D,E,F) alcoholic liver disease.
- **Disease of bones and joints:** Rheumatoid arthritis, osteoporosis and gout
- **Principles of cancer:** classification, etiology and pathogenesis of cancer
- **Diseases of bones and joints:** Rheumatoid Arthritis, Osteoporosis, Gout
- **Principles of Cancer:** Classification, etiology and pathogenesis of Cancer

Unit V

7 Hours

- **Infectious diseases:** Meningitis, Typhoid, Leprosy, Tuberculosis

Urinary tract infections

- **Sexually transmitted diseases:** AIDS, Syphilis, Gonorrhea

Recommended Books (Latest Editions)



BP203 T. BIOCHEMISTRY (Theory)

45 Hours

Scope: Biochemistry deals with complete understanding of the molecular levels of the chemical process associated with living cells. The scope of the subject is providing biochemical facts and the principles to understand metabolism of nutrient molecules in physiological and pathological conditions. It is also emphasizing on genetic organization of mammalian genome and hetero & autocatalytic functions of DNA.

Objectives: Upon completion of course student shall be able to

1. Understand the catalytic role of enzymes, importance of enzyme inhibitors in design of new drugs, therapeutic and diagnostic applications of enzymes.
2. Understand the metabolism of nutrient molecules in physiological and pathological conditions.
3. Understand the genetic organization of mammalian genome and functions of DNA in the synthesis of RNAs and proteins.

Course Content:

UNIT I

08 Hours

- **Biomolecules**

Introduction, classification, chemical nature and biological role of carbohydrate, lipids, nucleic acids, amino acids and proteins.

- **Bioenergetics**

Concept of free energy, endergonic and exergonic reaction, Relationship between free energy, enthalpy and entropy; Redox potential.

Energy rich compounds; classification; biological significances of ATP and cyclic AMP

UNIT II

10 Hours

- **Carbohydrate metabolism**

Glycolysis – Pathway, energetics and significance

Citric acid cycle- Pathway, energetics and significance

HMP shunt and its significance; Glucose-6-Phosphate dehydrogenase (G6PD) deficiency

Glycogen metabolism Pathways and glycogen storage diseases (GSD)

Gluconeogenesis- Pathway and its significance

Hormonal regulation of blood glucose level and Diabetes mellitus

- **Biological oxidation**

Electron transport chain (ETC) and its mechanism.



Oxidative phosphorylation & its mechanism and substrate level phosphorylation

Inhibitors ETC and oxidative phosphorylation/Uncouplers

UNIT III

10 Hours

- **Lipid metabolism**

β -Oxidation of saturated fatty acid (Palmitic acid)




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Formation and utilization of ketone bodies; ketoacidosis

- De novo synthesis of fatty acids (Palmitic acid)

Biological significance of cholesterol and conversion of cholesterol into bile acids, steroid hormone and vitamin D

Disorders of lipid metabolism: Hypercholesterolemia, atherosclerosis, fatty liver and obesity.

- **Amino acid metabolism**

General reactions of amino acid metabolism: Transamination, deamination & decarboxylation, urea cycle and its disorders

Catabolism of phenylalanine and tyrosine and their metabolic disorders (Phenylketonuria, Albinism, alcaptonuria, tyrosinemia)

Synthesis and significance of biological substances; 5-HT, melatonin, dopamine, noradrenaline, adrenaline

Catabolism of heme; hyperbilirubinemia and jaundice

UNIT IV

10 Hours

- **Nucleic acid metabolism and genetic information transfer**

Biosynthesis of purine and pyrimidine nucleotides

Catabolism of purine nucleotides and Hyperuricemia and Gout disease

Organization of mammalian genome

Structure of DNA and RNA and their functions

DNA replication (semi conservative model)

Transcription or RNA synthesis

Genetic code, Translation or Protein synthesis and inhibitors




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UNIT V

07 Hours

- **Enzymes**

Introduction, properties, nomenclature and IUB classification of enzymes

Enzyme kinetics (Michaelis plot, Line Weaver Burke plot)

Enzyme inhibitors with examples

Regulation of enzymes: enzyme induction and repression, allosteric enzymes regulation

Therapeutic and diagnostic applications of enzymes and isoenzymes

Coenzymes –Structure and biochemical functions

BP 209 P. BIOCHEMISTRY (Practical)

4 Hours / Week

1. Qualitative analysis of carbohydrates (Glucose, Fructose, Lactose, Maltose, Sucrose and starch)
2. Identification tests for Proteins (albumin and Casein)
3. Quantitative analysis of reducing sugars (DNSA method) and Proteins (Biuret method)
4. Qualitative analysis of urine for abnormal constituents
5. Determination of blood creatinine
6. Determination of blood sugar
7. Determination of serum total cholesterol
8. Preparation of buffer solution and measurement of pH
9. Study of enzymatic hydrolysis of starch
10. Determination of Salivary amylase activity
11. Study the effect of Temperature on Salivary amylase activity.
12. Study the effect of substrate concentration on salivary amylase activity.



T111 - Dispensing Pharmacy (Theory)

(3 hrs/ week)

Section – I

TOPICS	Hrs.
1) Pharmacist: A Health Care Provider, Concept of pharmaceutical health care, Growth of Pharmacy Practice	03
2) Compounding & Dispensing of medication: Definition of dispensing & compounding. Good dispensing & compounding practices, fundamental operations in compounding. Containers & closures for dispensed products, labeling & storage of compounded products. Dispensing of prefabricated dosage forms, patient counseling, and documentation of compounding & dispensing records.	07
3) Prescription: Its parts, types of prescription, prescription pricing & documentation.	05
4) Incompatibilities: Definition types of prescription, prescription pricing & documentation	10
5) Pharmaceutical Calculations: - % Calculations, Allegation method, isotonicity, proof spirit. Posology: factors affecting & Calculations of doses. Weight & measures.	04

Section – II

TOPICS	Hrs.
6) Compounding & Dispensing Aspects of -	
i) Formulation & procedure for compounding & dispensing of oral & external use liquids, gargles, nasal drops, sprays, enemas.	04
ii) Suspensions: - Thickening agents, Diffusible & in diffusible type, oral suspensions & lotions.	04
iii) Emulsions: - Emulgents, choice of emulgents, HLB values, two phase emulsion, methods of preparation (Dry & wet gum & soap emulsions.), determination of type, physical stability & causes for instability..	04
iv) Semisolids: - Ointments, Creams, Pastes, jellies, Poultices & Plasters.	07
v) Suppositories: - Formulation, displacement value, compounding & evaluation.	02
vi) Solid Dosage Forms: - Divided & bulk (oral & external) powders, effervescent granules. Filling of Hard gelatin Capsules, dispensing of prefabricated Tablets, Capsules, Pastilles, Lozenges, Pills & tablet triturates.	07
7) Surgical Aids including Ligatures & Sutures: Surgical dressing, medicated bandages, Ligatures & Sutures processing and manufacturing, packing & Q.C. test of catgut	03

TOTAL Hrs: - 45

Books Recommended:

1. AH. Gennaro **Remington's Pharmaceutical Science**-(Mack Publishing)
2. Collett & Aulton **Pharmaceutical Practice**
3. Hoover **Dispensing of Medications** (Mack Publishing)
4. Sprowls **Prescription Pharmacy** Lippincott)
5. Stocklos **Pharmaceutical Calculations**
6. IP, BP, USP-NF, NFI and the Pharmaceutical Codex, Martindale Extra Pharmacopoeia
8. Winfield and Richard **Pharmaceutical Practice**




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P111- Dispensing Pharmacy (Practicals)

(3 hrs/ week)

Notes:

- (i) All the prescriptions shall be in metric system except a few for practice which shall be in the imperial system.
- (ii) Latest editions of books wherever applicable shall be used.
- (iii) Special attention to be paid to the cleanliness and precise working (including documentation) of the candidate in the laboratory.
- (iv) Minimum thirty exercises should be conducted
 1. Dispensing Vs Compounding
 2. Weighing technique for the dispensing-balance sensitivity - Weight box calibration and - accuracy.
Precision of weighing and error evaluation.
Measuring techniques - Precision and accuracy of measuring and error evaluation
Devices for accurate dosage measurement
Handling of prescription - Reading, checking, labeling and dispensing with detailing.
General Dispensing procedure - Different containers for dispensing, labeling of dispensed medicines - Documentation.
 3. Posology and calculations
Weights and measures
Reducing and enlarging formulae
Percentage calculations
Dilutions and concentration (Stock solutions)
H.L.B. System
Isotonic solutions
 4. Compounding and dispensing with precision of the following preparations:
 - (i) Powders and Granules
Compound Magnesium Trisilicate oral powder*
Siedlitz powder*
Isapogol granules**
Effervescent granules of sodium sulphate**
Zinc, starch and Talc Dusting powder*
Eutectic powder containing Menthol with camphor*
 - (ii) Solutions
Salicylic acid colloid*
Paediatric ferrous sulphate oral solution*
Zinc Sulphate and Zinc chloride mouth wash*
Mouth wash containing Thymol, Menthol, Peppermint oil and a suitable antiseptic.**
 - (iii) Suspensions
Paediatric kaolin mixture**
Magnesium Trisilicate mixture**
Paediatric chalk mixture**
Inhalation containing menthol and eucalyptus*
 - (iv) Emulsions
Emulsion for internal use containing acacia
White liniment*
Oily calamine lotion**
Benzyl Benzoate application*




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T235 Pathphysiology

45 Hours (3hrs/Week)

Sr. No	Chapter	No of Hrs
Section-I		
1.	Basic Principles of cell injury and adaptation, causes, pathogenesis and morphology. Repairs of wounds, factors influencing healing of wounds.	03
2.	Inflammation. A) Acute inflammation. Chemical mediators in inflammation. B) Chronic inflammation.	04
3	Immunity – Transplantation and immunological tolerance, allograft reactions, transplantation antigens, mechanism of rejection of allograft. Autoimmunity I) Criteria for autoimmunity II) Classifications of autoimmune diseases in man, mechanism of autoimmunity.	04
4	Hypersensitivity I) Hypersensitivity type I,II,III,IV II) Biological significance of hypersensitivity. III) Allergy due to food, chemicals and Drugs.	04
5	Pain Pain syndromes- Headache; assessment, structures involved in headache and head pain. Types of headaches- migraine, cluster headache, muscle contraction, (tension headaches), headaches affecting elderly Joint pain:- Degenerative joint diseases- osteoarthritis, - types, causes and abnormalities assessment. Rheumatoid arthritis- causes abnormalities, course and prognosis, assessment, subjective, objective management. Gout-cause abnormalities, chronic changes, tophaceous gout- asymptomatic hyperuricemia, chronic gout, maintenance,.	05
6	Types of Acid-Base derangements- Deficiency of water and solute balance, Deficiency of water relative to solute, Anion gap, Dehydration, Hypermnatremia, Hyperosmolar state, Excess fluid and electrolyte (Na), Hypervolemia, Hyperkalemia, Hypokalemia, Respiratory acidosis, Respiratory alkalosis, Metabolic acidosis, Metabolic alkalosis. Arterial oxygen tension and Hemoglobin oxygen saturation curve- blood gas transport.	05
7.	Central Nervous System: Seizure and epilepsy, neural basis of epilepsy, types of epilepsy, Ischemia infarction (stroke) and intracranial hemorrhage, anoxia, brain death. Alzheimer's disease, Dementias, Parkinsonism, Schizophrenia, Depression and Mania	05
Section-II		
8.	Disorder of respiration: Chronic disorders- chronic obstructive pulmonary diseases- Ateletaxis, Emphysema, Asthma, diffuse interstitial lung disease. Acute disorder of respiratory system, Acute respiratory failure, Pneumonia, pulmonary embolism.	03
9.	Pathophysiology of Cancer	06
10	Biological effects of radiation	01
11	Disorders of gastrointestinal tract(GIT): Disorders of oesophagus- Achalasia, gastro-oesophageal reflux and reflux oesophagitis, causes consequences and management. Disorder of stomach, small intestine and large intestine - Peptic ulcer disease-acute ulcer, chronic peptic ulcer., tuberculosis of intestine, Acute intestinal obstruction. Constipation, diarrhea, Hirschsprung's disease(General disorders of GIT e. g. vomiting Nausea, Flatus etc should also be covered) Ulcerative colitis, Crohn's disease	05
12	Endocrine disorders- Pituitary gland- growth hormone- Dwarfism, Gigantism, Adrenal gland-Addison's disease Thyroid gland-Hypo and Hyperthyroidism Sex hormones- Hirsutism, Gynecomastia, virility, impotence etc Pancreas-Diabetes,	08
13	Disorders caused by biological and environment agents: Etiological agent of diseases, diagnosis of infectious diseases-test selection, specimen collection, preservation, transportation, testing and data interpretation infectious diseases Sexually transmitted diseases STD (HIV) pneumonias, leprosy, malaria, food poisoning, Diarrhea/Dysentery (Bacterial and amoebic), typhoid, tuberculosis. Effect of air pollution and smoking-impact of gases like SO ₂ , NO, NO ₂ and CO	06



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T244 Pathophysiology and Clinical Bio-chemistry
45 Hours (3hrs/Week)

Sr. No.	Chapter	No of Hrs
	Section-I	
01	Disorders of gastrointestinal tract (GIT): I) Disorders of liver- Infectious hepatitis, types of hepatitis, liver changes in viral hepatitis, assessment-course and complications. Alcoholic liver diseases –fatty liver, Alcoholic hepatitis cirrhosis. Lacnec's cirrhosis, Portal hypertension, hepatic encephalopathy. II) Disorders of the gall bladder and bile ducts- Gall stone formation-types of gall stones assessments and management. Acute cholecystitis –causes and pathological changes. III) Disorders of exocrine pancreas- pancreatitis acute and chronic- types, causes, abnormalities, assessment and management. IV) Nutrition- adequate diet. Malabsorption syndrome, intestinal and pancreatic malabsorption, abnormal bacterial flora, steatorrhea. Protein calorie malnutrition ,vitamins, obesity, pathogenesis of starvation	10
02.	Disorders of Urinary System- Renal failure- Chronic renal failure, Acute renal failure- Obstructive renal failure, pre-renal acute failure, acute tubular necrosis, Urinary tract infections and pyelonephritis – lower urinary tract infection, acute pyelonephritis, chronic pyelonephritis. Glomerular Disease:- types of glomerulonephritis and nerphrotic syndromes	05
03.	Disorders of CVS- Hypertension, Ischemic Heart Diseases- Angina: types and causes diagnosis of ischemic heart disease, management of ischemia and angina pectoris. Atherosclerosis. Myocardial Infarction. CCF-Types of heart failure, causes of heart failure heart cell changes in the heart failure, consequences of decreased myocardial contractility. Clinical manifestation of congestive heart Failure and their pathophysiological basis, management of chronic heart failure. Types of shock, mechanisms and principles	08
	Section-II	
1	Clinical Biochemistry Introduction to clinical biochemistry	01
2	Clinical enzymology: Analytical diagnostic and therapeutics uses of –enzymes I. Enzymes in diagnosis- SGPT, SGOT, Creatine kinase, lactate dehydrogenase and its isoenzymes, β glucuronidase in cancer diagnosis, serum acid phosphate II. Enzymes of pharmaceutical and therapeutic importance-Streptokinase, Urokinase, Hyalauronidase, Collagenase, Papain, Bromelin, Trypsin, Pepsin, Asparaginase, Seratopeptidase and Oncolytic enzymes	03
3.	Diseases related to carbohydrate metabolism – diabetes mellitus and OGTT, Carbohydrate metabolism(inborn errors), Glycogen storage disease, Galactosemia, lactose intolerance, glycosuria or mellituria	03
4	Diseases of protein energy malnutrition- Kwashiorkor and Marasmus Diseases Aromatic amino acid metabolism , Hartnup's disease, Phenylketonuria (PKU), Albinism, Alkaptonuria, Different Tyrosinemias, Sulphur containing amino acid metabolism; Cystinosis, Cystinuria, homocysteinuria, Disease of Branched chain amino acid metabolism; maple syrup urine disease Disorders related to urea cycle metabolism Histidinemia, Hyperprolinemia type I , Hyperprolinemia type II	05
5.	Disease related to lipid metabolism – Obesity, atherosclerosis Hyperlipidemia, Hyperlipoproteinemias, Hypercholesterolemias, Hypocholesterolemias, Lipotropic factors II) Abnormalities in Lipoproteinaemia , Glycogen Storage Diseases.	03
6	Organ function tests a. Liver function tests b. Renal function tests-blood urea nitrogen, creatinine, uric acid, creatinine clearance c. Gastric function tests- rennin, pepsin fractional test meal, stimulation of gastric secretion, hyper secretion and its treatment d. Thyroid function tests- determination of hormones- T3,T4,TSH uptake studies. e. Pancreatic function tests- Diabetes – Type – I Type- II-OGTT, glycated Hemoglobin and microalbuminurea	07

Books Recommendeds:

- 1) Robbins Pathologic. Basis of Disease Harcourt Asia Pte.ltd. New Delhi 2000 6th edition
- 2) Harsh Mohan. Textbook of Pathology Jaypee New Delhi 2002, 4th edition
- 3) Davidson's Principles and Practice of Medicine Churchill Livingstone, London1999, 18th edition
- 4) Harrison's. Principle of Internal Medicine. Mc-Graw-Hill, New Delhi, 2005.16th edition (Vol. I,II)
- 5) Styer L. - Biochemistry



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45 Hours (3hrs/Week)

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02.	Disorders of Urinary System- Renal failure- Chronic renal failure, Acute renal failure- Obstructive renal failure, pre-renal acute failure, acute tubular necrosis, Urinary tract infections and pyelonephritis – lower urinary tract infection, acute pyelonephritis, chronic pyelonephritis. Glomerular Disease:- types of glomerulonephritis and nerphrotic syndromes	05
03.	Disorders of CVS- Hypertension, Ischemic Heart Diseases- Angina: types and causes diagnosis of ischemic heart disease, management of ischemia and angina pectoris. Atherosclerosis. Myocardial Infarction. CCF-Types of heart failure, causes of heart failure heart cell changes in the heart failure, consequences of decreased myocardial contractility. Clinical manifestation of congestive heart Failure and their pathophysiological basis, management of chronic heart failure. Types of shock, mechanisms and principles	08
	Section-II	
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3.	Diseases related to carbohydrate metabolism – diabetes mellitus and OGTT, Carbohydrate metabolism(inborn errors), Glycogen storage disease, Galactosemia, lactose intolerance, glycosuria or mellituria	03
4	Diseases of protein energy malnutrition- Kwashiorkor and Marasmus Diseases Aromatic amino acid metabolism , Hartnup's disease, Phenylketonuria (PKU), Albinism, Alkaptonuria, Different Tyrosinemias, Sulphur containing amino acid metabolism; Cystinosis, Cystinuria, homocysteinuria, Disease of Branched chain amino acid metabolism; maple syrup urine disease Disorders related to urea cycle metabolism Histidinemia, Hyperprolinemia type I , Hyperprolinemia type II	05
5.	Disease related to lipid metabolism – Obesity, atherosclerosis Hyperlipidemia, Hyperlipoproteinemias, Hypercholesterolemias, Hypocholesterolemias, Lipotropic factors II) Abnormalities in Lipoproteinaemia , Glycogen Storage Diseases.	03
6	Organ function tests a. Liver function tests b. Renal function tests-blood urea nitrogen, creatinine, uric acid, creatinine clearance c. Gastric function tests- rennin, pepsin fractional test meal, stimulation of gastric secretion, hyper secretion and its treatment d. Thyroid function tests- determination of hormones- T3,T4,TSH uptake studies. e. Pancreatic function tests- Diabetes – Type – I Type- II-OGTT, glycated Hemoglobin and microalbuminurea	07

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- 3) Davidson's Principles and Practicé of Medicine. Churchill Livingstone, London1999, 18th edition
- 4) Harrison's. Principle of Internal Medicine. Mc- Graw-Hill, New Delhi, 2005.16th edition (Vol. I,II)
- 5) Styer L. - Biochemistry



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P244 Pathophysiology and Clinical Bio-chemistry

1) Use and interpretation of biochemical data viz: (Significance of screening the parameter) Diagnostic prognostic screening tests like (rationale behind performing following tests) **

- Blood sugar : by O-toluidine, glucose oxidase, (02)
- Blood protein by Biuret, Lowery's method.(01)
- Blood urea (01)
- Serum uric acid (01)
- Urine calcium (01)
- Serum cholesterol(01)
- Serum bilirubin (01)
- Blood creatinine(01)
- Blood chlorides(01)
- SGPT (01)
- SGOT(01)
- Urine amylase (01)
- LDH(01)
- Separation of amino acids by two dimensional Paper Chromatography. (Demonstration) (01)
- Study of enzyme kinetics and factors affecting its activity. (construction of Michaelis – Menton curve, optimum temperature, optimum PH, Lineweaver Burke plot for following 1) enzymatic hydrolysis of glycogen by amylase and 2) conversion of sucrose to glucose by invertase. (02)

- Pregnancy test*
- Measurement of Glucose by glucometer*
- Qualitative tests for identification of given protein sample*
- Preparation of plasma (using diff.anti-coagulants),serum*
- Widal test*
- RA factor test*

* Indicate minor experiments

** Indicate Major experiments

Books Recommendeds:

- Mukherjee K.L. Medical Laboratory Technology. Tata McGraw Hill. New Delhi,1999 4th edition (Vol.I,II,III)
- Harold Varley. Practical Clinical Biochemistry. CBS, New Delhi1988, 4th edition
- Deb A.C. Viva &Practicals in biochemistry. Central book agency. Calcutta 2002
- Plummer D.T. An Introduction to Practical Biochemistry. Tata Mc-Graw Hill, New Delhi,1994, 3rd edition
- Godkar P.B. Clinical Biochemistry- Principles and Practice. Bhalani Publishing House, Bombay, 5th edition.

Scheme for practical

SR.NO	Head	Sessional	Annual
1	Synopsis	04	10
2	Major experiment	07	30
3	Minor experiment	03	15
4	Viva	02	10
5	Duration	03 Hrs	4 Hrs
6	Journal & Attendance	10	-
	Total	30	70



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6	Drugs Acting on Cardio Vascular System: Anti-Hypertensives, Anti-Arrhythmic Agents, Anti-anginal agents, Anti-hyperlipidemic agents Captopril, Enalapril, Diltiazem hydrochloride, Nifedipine, Verapamil	11
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Total Hrs-45

Books Recommended:

1. Principles of Medicinal Chemistry, Foye, Lemke and Williams, Indian Ed. B. I. Waverly, Pvt. Ltd. New Delhi 1995
2. Wilson and Gisvold, Textbook of Organic Medicinal and Pharmaceutical Chemistry, J. N. Delgado, W.A. Remers, Lipincott-Raven 10th Ed., 1998
3. Essentials of Medicinal Chemistry by Koralkovas, 2nd edition, Wiley- Inter Sci. Pub. 1988
4. The Organic Chemistry of Drug Synthesis: Daniel Lednicer, John Wiley and Sons. Inc. Vol.-6
5. Profiles in Drug Synthesis: V.N. Gogte
6. Burger's Medicinal Chemistry and Drug Discovery (Vol. 1-6) Wiley Inter Sci. Pub
7. Textbook of Pharmaceutical Chemistry by Harkishansing & Kapoor
8. Principle of Medicinal Chemistry (Volume I & II) by Kadam, Mahadik and Bothara
9. Unit Processes in Organic Chemistry, V ed., Groggins, P. H., Tata McGraw Hill

P352 Pharmaceutical Medicinal Chemistry –I (Practicals)
(3Hrs/week)

Sr. no.	Topic
1	Synthesis of the following compounds <i>p</i> -bromothiophenol* <i>o</i> -Iodo benzoic acid and <i>o</i> -chlorobenzoic acid (Sandmeyer Reaction)** Benzilic acid from benzoin* Toluene- <i>p</i> -Sulphonate* Acetanilide from Acetophenone (Beckmann Rearrangement)** Benzanilide from Benzophenone** Benzoic acid* Benzylidene acetophenone **
2	A) Microwave oven synthesis of the following compounds [Ref. 4, 5, 6] Benzil* Benzpinacol* Benzillic acid* Succinic anhydride* Ethyl benzoate* 3-methyl -1- phenyl -5-pyrazolone** 4-nitrobenzyl benzoate* Phenytoin** Benzocaine** Butamben** 2,3 Diphenylquinoxaline**



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T352 Pharmaceutical Medicinal Chemistry–I (Theory)
(3Hrs /week)

Sr.no.	Topic	Hours
Section I		
1.	Introduction: Medicinal Chemistry: Definition And Objectives—using the internet for medicinal chemistry; Sources of Drugs-Serendipity, Random Screening, Extraction from Natural Sources, Molecular Modifications.	03
2	Theoretical Aspects of Drug Action: The Ferguson Principle; Drug targets: Molecular mechanisms of drug action; Measurement and Expression of Drug Effects. Physicochemical parameters affecting drug action: Solubility, Partition Coefficient, Surface Activity, <i>pKa</i> , Ionisation. Stereochemistry and drug action: Optical isomerism, Geometrical isomerism, Bio-isosterism.	06
3	Metabolism Routes of Elimination: Factors Affecting Metabolism – Genetic Factors, Physiological Factors, Pharmaceutical Factors, Drug Interactions. Metabolic Process- Phase I (Oxidation, Reduction & Hydrolysis) and Phase II (Glucuronide Conjugation, Acetylation, Methylation, Sulphate Conjugation, Conjugation with amino acids and Mercapturic acid formation)	06
4	Introduction to Receptor Concept History, Affinity, Receptor & biological response, Drug Receptor interaction, Forces involved in drug receptor interaction. Receptor Theories, Conformational flexibility and multiple modes of Action	06

SECTION II

The following topics should be covered with the points listed below

1. Introduction
2. Classification
3. Mechanism of action
4. Structure-activity relationship
5. Pharmacokinetics (Metabolism) and
6. Therapeutic uses
7. Synthesis of drugs official in IP (listed in respective classes)

5	Drugs Acting on ANS	
	a. Drugs Acting on Cholinergic Nervous System: Atropine sulphate, Pilocarpine nitrate	06
	b. Drugs Acting on Adrenergic Nervous System: Adrenaline, Noradrenaline, Prazosin hydrochloride, Propranolol, Clonidine hydrochloride	04
	c. Local Anaesthetics: Benzocaine, Lignocaine, Procaine hydrochloride	03



Principals
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Shirpur Dist.Dhule(M.S) 425 405

T363 Pharmacology-II (Theory)
(3hrs/Week)

Sr. No.	Topic	No of Hrs
Section-I		
1.	Pharmacology of drugs acting on Central Nervous System	
	a) General considerations (Introduction), Neurotransmission and transmitters in CNS	05
	b) Alcohol	02
	c) General anesthetics	02
	d) Drugs used in parkinsonism	01
	e) Sedatives and hypnotics	03
	f) CNS stimulants	02
	g) Anti-Convulsants	02
	h) Psychiatric disorders and their treatment (Antipsychotics, anxiolytics and antidepressants)	05
Section-II		
2.	Opoid Analgesics	03
3.	Drug dependence and drug abuse	02
4.	Pharmacology of local-anesthetics	02
5.	New Drug Development	01
	a) Pre-clinical evaluation (acute ,subacute & chronic toxicity, ADME, therapeutic index)	02
	b) Clinical evaluation	02
6.	Bio-assays- Concept, Principles, Merits & Demerits, Methods, Types, Bioassay of insulin, Digitalis as per official books. Brief to Biostatistics with reference to Bio-assay.	05
7.	Pharmacology of drugs acting on Respiratory system	06
	a) Mucolytics	
	b) Expectorants	
	c) Antitussives	
	d) Asthma	
Total Hrs.		45

Books Recommended:

- 1) Satoskar R.S, Bhandarkar S.D, Rage N.N. Pharmacology and Pharmacotherapeutics. Popular Prakashan Mumbai 19th edition.
- 2) Barar F.S.K. Essentials of Pharmacotherapeutics, S.Chand & Company Ltd. New Delhi
- 3) Tripathi K.D. Essentials of medical Pharmacology ,Jaypee New Delhi 2004 5th edition
- 4) Rang H.P., Dale M.M. *et.al*. Pharmacology. Churchill Livingstone, New Delhi 2005 5th edition
- 5) Katzung B.G .Basic & Clinical Pharmacology Mc-graw Hill, New Delhi 2001. 8th edition.
- 6) Lewis's Pharmacology. Churchill Livingstone London, 1980 5th edition
- 7) Goodman Gilman, The Pharmacological basis of therapeutics. Mc-graw Hill New Delhi 2001 10th edition
- 8) Seth S.D. Textbook of Pharmacology Elsevier, New Delhi 2004 2nd Edition
- 9) Harvey R.A., Champe P.C. Lippincott's Illustrated Reviews-Pharmacology. Lippincott Williams & Wilkins, Pennsylvania. 2000 2nd edition.




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Examination Pattern is as follows

Sr. No.	Types of Question	Sessional	University
	Duration	3 Hrs	4 Hrs
1	Synopsis	5	10
2	Viva Voce	5	10
3	Exp. Major	-	30
	Minor	10	20
4	Journal Marks	10	-
	Total Marks	30	70




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T366 Pharmaceutical Biotechnology (Theory)
(3hrs/Week)

Section I		
Sr.No.	Topic	Hours
1	Biotechnology -Definition, scope and potential	02
2	Fermentation technology and industrial microbiology	
	Fermentation as a biochemical process	2
	Construction, working and types of fermenter, fermentation monitoring, in-situ recovery and downstream processing.	4
	Industrial production of Penicillin, dextran and Vit B ₁₂	2
	Waste discharge & effluent treatment	2
3	Plant cell and tissue culture	
	Cellular totipotency	1
	Laboratory and media requirements for establishing in vitro culture	2
	Cell culture techniques –organ, callus, single cell, cell suspension and protoplast culture	3
	Somatic hybridization and cybridisation-isolation and fusion of protoplast, selection of hybrids and cybrids and their applications	3
	Production of secondary metabolites using hairy root culture, immobilized cell culture and elicitor-induced accumulation.	3
	Introduction to germplasm conservation	1
Section II		
04	Animal cell culture	05
	Introduction to animal cell culture, media, culture techniques and types of animal cell culture	
5	Genetic recombination of animal cells	05
	Steps in genetic recombination, endonucleases, vectors, strain construction and gene transfer methods.	
6	Biotechnological production of human insulin, human growth hormone and interferons. Impurities in bioproducts.	05
7	Principle and applications of polymerase chain reaction (PCR), gel electrophoresis, peptide mapping, protein sequencing, HPLC and immunoassay	05

Total Hrs- 45




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Books Recommended

1. Bainse William, Biotechnology from A to Z, 2nd Edition, 2002, Oxford University Press.
2. Casida L. E., Industrial Microbiology, 2000, New Age International, Delhi.
3. De Kalyan Kumar, Plant Tissue Culture, 1st Edition, 1997, New Central Book Agency (P) Ltd.
4. Disouza J. I., Killedar S. G., Biotechnology and Fermentation Process, Nirali Prakashan
5. Freifelder David, Molecular Biology, 2nd Edition, 1998, Narosa Publishing House.
6. Gupta P. K., Elements of Biotechnology, 1st Edition, 2001, Rastogi Pub., Meerut.
7. Higgins, Best D.J. and Jones J., Biotechnology: Principles and Applications, Blackwell Scientific Publications, Boston, MA 1985.
8. Hugo W. B., Russell A. D., Pharmaceutical Microbiology, 6th Edition, 1998
9. Razdan M.K., An introduction to plant tissue culture, Oxford & IBH Pub., Co. Pvt. Ltd, New Delhi.




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T483 Clinical Pharmacology and Pharmacy (Theory)

Sr. No.	Topics	No of Hrs
	Section-I	
1.	Toxicology a) Acute, Sub acute and Chronic toxicity b) Poison, Types and Classification and General treatment of Poisoning, c) Signs, Symptoms and treatment of acute and chronic poisoning due to i) Barbiturates ii) Alcohol iii)Morphine iv) Insecticides vi) Snake bites vii) Heavy metals (Lead, Arsenic, Mercury) d) Drug and Poison information center	02 02 08 01
2.	Drug interactions, Role of Pharmacist in minimizing Drug interactions	07
3.	Drug induced diseases	04
	Section-II	
4.	Therapeutic Drug Monitoring	03
5.	Adverse Drug Reaction Monitoring	03
6.	Ambulatory Patient Care, Institutional Patient Care, Role of pharmacist in long term care	01
7	Medication Errors & Role of Pharmacist in safe use of medicines, Use of medicines in	02

(3hrs/Week)




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	pregnancy.	
8	Drug Utilization Evaluation -Introduction, Utilization, Evaluation	04
9.	Essential Drug Use & Rational Drug Use	04
10.	Pharmacoeconomics	02
11.	Pharmacoepidemiology	02

Total Hrs-45

Books Recommended:

1. Bennett P.N, Brown M.J. Clinical Pharmacology Churchill living stone New Delhi 2003 9th edition
2. Melmon & Morrelli's Clinical Pharmacology. Mc-Graw Hill. New Delhi 2000 4th edition
3. Craig C.R, Stitzel R.E. Modern Pharmacology with Clinical application, Lippincott Williams & Wilkins, New York 2004 6th edition
4. Raymond J.M. Niesink, John de vries. Hollinger M.A. Toxicology- Principle and applications, CRC, Florida
5. Klaassen C.D, Casarett & Doull's. Toxicology. The basic science of poison Mc-Graw Hill, New Delhi 6th ed
6. Remington's Pharmaceutical Science and practice pharmacy .Lippincott Williams and Wilkins, New Delhi 2004, 20th edition
7. Katzung B.G. Basic & Clinical Pharmacology. Mc-Graw Hill, New Delhi 2001 8th edition
8. Clinical pharmacy practice - C. W. Blissit
9. Therapeutic drug monitoring - B. Widdop
10. TDM & Clinical biochemistry – Mike Hallworth
11. Textbook of therapeutics, Drug & disease management - 7th edition - Eric T. Herfindel, Dick. R. Gourley
12. Recent developments in TDM & Clinical toxicology – I. Sunshine - Marcel – Dekker 1992
13. Handbook of TDM: – Simkin
14. Parrthsarathi G, Hansen Kavin Nyrtort & Nahata Milap C. A Textbook of Clinical Practice: Essential Concepts & skills, Orient Longman.
15. Roger walker, Clive Edwards, Clinical Pharmacy & therapeutics, 3rd International Edition, Churchill Livingstone.
16. Dr. Tipnis H. P, Dr. Bajaj Amrita, Clinical Pharmacy, Career Publication.



Seen
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P483 Clinical Pharmacology and Pharmacy (Practical)
(3hrs/Week)

- 1) Paracetamol/ Carbon tetra Chloride induced hepatotoxicity in rats-Changes in markers like SGOT, SGPT, and Bilirubin, LDH etc. **.
- 2) Determination and interpretation of biochemical Data by Urine analysis. **.
 - a) Urine microscopy.
 - b) Determination of normal constituent.
 - c) Determination of Abnormal constituent like albumin, blood, ketone bodies, uric acid, casts, microorganisms.
- 3) Comment on the given prescriptions with reference to case report mentioning possible therapeutic uses, and contraindications, with dose, route of administration, justification of inclusion of each ingredient, and possible Drug interactions..(**At least one case of important diseases should be discussed on basis of available evidences from literature and if possible from Hospitals.**) *.
- 4) Patient Counseling-Interview techniques and advice on some theoretical conditions. *..
- 5) ADR reporting according to the Blue letter of AADRAC, Australia, Yellow form of CSM, UK.
ADR reporting form developed by KEM, Mumbai. *.
- 6) Calculating Cost of prescription. *.
- 7) Histological studies in biopsies.(Human permanent slide) *.
- 9) Preparation of information material for educating patients about drug usage. *.

Sr. No.	Types of Question	Sessional	University
	Duration	3 Hrs	4 Hrs
1	Synopsis	5	10
2	Viva Voce	5	10
3	Exp. Major	-	30
	Minor	10	10+10
4	Journal Marks	10	-
	Total Marks	30	70

Books Recommended:

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- 2) Melmon & Morrelli's Clinical Pharmacology. Mc-Graw Hill. New Delhi 2000 4th edition




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- 3) Craig C.R, Stitzel R.E. Modern Pharmacology with Clinical application, Lippincott Williams & Wilkins, New York 2004 6th edition
- 4) Raymond J.M. Niesink, John de vries. Hollinger M.A. Toxicology- Principle and applications, CRC, Florida 96
- 5) Klaassen C.D, Casarett & Doull's. Toxicology. The basic science of poison Mc-Graw Hill, New Delhi 6th ed.
- 6) Remington's Pharmaceutical Science and practice pharmacy .Lippincott Williams and Wilkins, New Delhi 2004, 20th edition
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- 8) Clinical pharmacy practice - C. W. Blissit
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- 10) TDM & Clinical biochemistry – Mike Hallworth
- 11) Textbook of therapeutics, Drug & disease management - 7th edition - Eric T. Herfindel, Dick. R. Gourley
- 12) Recent developments in TDM & Clinical toxicology – I. Sunshine - Marcel – Dekker 1992
- 13) Handbook of TDM. – Simkin

Minimum Twelve numbers of Experiments should be performed. Experiments requiring three steps should be classified as Minor-first two steps, and Major- last step

Books Recommended

- 1) Text Book of Practical Organic Chemistry – A.I. Vogel
- 2) Practical Organic Chemistry – Mann and Sanders
- 3) Systematic identification of Organic Composition, Shriner and Fuson
- 4) Introduction to Spectroscopy, Donald L. Pavia, Third Edition, Harcourt College Publishers
- 5) Introduction to Spectroscopy, Silverstein, B.

Examination Pattern is as follows

Sr. No.	Types of Question	Sessional	University
	Duration	3 Hrs	4 Hrs
1	Synopsis	5	10
2	Viva Voce	5	10
3	Exp. Major	-	30
	Minor	10	20
4	Journal Marks	10	-
	Total Marks	30	70

T473 Pharmacology III (Theory) (3hrs/Week)

Sr.No.	Topics	No of Hrs
	Section-I	



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1.	Endocrine system a) Thyroid and Anti Thyroid drugs b) Insulin, Insulin analogues and Oral Hypoglycemic agents c) Male and Female Sex hormones and oral contraceptives d) Oxytocin and other uterine stimulants and relaxants	01 02 03 03 01
2.	Cardiovascular system a) Anti-hypertensives b) Anti anginal drugs c) Anti arrhythmic drugs d) Drugs used for therapy of Congestive Cardiac Failure e) Drugs used in Hyperlipidemias	03 02 03 03 02
Section-II		
3.	Gastro-intestinal system a) Anti-Ulcer drugs and Antacids b) Laxative and purgatives c) Emetic and Anti emetic d) Appetizers and Digestants and carminatives	02 01 02 01
4.	Diuretics Pharmacology of drugs acting n Renal system (Diuretic) and Anti-diuretics	02
5.	Pharmacology of autacoids and their Antagonist a) Histamine and Antihistaminic b) 5- Hydroxytryptamine and its antagonists c) Lipid derived autacoids and platelet activating factor d) Non Steroidal Anti-inflammatory Drugs	02 02 02 02
6.	Drug Acting on Blood and Blood Forming agent a) Coagulants and anti-coagulants b) Haemopoietics c) Thrombolytics and antiplatelet	02 02 02
Total Hrs.		45

Books Recommended

- 1) Satoskar R.S, Bhandarkar S.D, Rage N.N. Pharmacology and Pharmcotherapeutics. Popular Prakashan Mumbai 19th edition.
- 2) Barar F.S.K. Essentials of Pharmacotherapeutics, S.Chand & Company Ltd. New Delhi
- 3) Tripathi K.D. Essentials of medical Pharmacology ,Jaypee New Delhi 2004 5th edition
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- 6) Lewis's Pharmacology. Churchill Livingstone London,1980 5th edition
- 7) Goodman Gilman, The pharmacological basis of therapeutics. Mc-graw Hill New Delhi 2001 10th edition
- 8) Seth S.D. Textbook of Pharmacology Elsevier, New Delhi 2004 2nd Edition




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Activity Report



President :
Shri Amrishbhai R. Patel
M.L.A.

Principal :
Dr. S. B. Bari
M.Pharm. Ph.D., D.I.M.F.J.C.

Activity report (2023-24)

Submitted to

The Principal,

H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur

Name of Activity	International Yoga Day
Organizer	H.R.P.I.P.E.R. and THE ART OF LIVING
Venue	H.R.P.I.P.E.R. Ground
Name of Speaker With contact details	THE ART OF LIVING & YOG VIDYA DHAM SHIRPUR.
Date of activity	21/06/2023
Objectives	To promote the physical, mental, and spiritual benefits of yoga, fostering a sense of community and mindfulness across diverse populations.
In charge	Principal, Dr. S. B. Bari, H.R.P.I.P.E.R. and SES management
Number of Participant	Students- 42 Teachers -21
Brief Report on activity	On 21, June, 2023 H.R.P.I.P.E.R. and THE ART OF LIVING celebrated International Yoga Day at H.R.P.I.P.E.R. Ground, drawing over 63 participants. The event featured a guided group yoga session led by certified instructors, showcasing various styles such as Hatha and Vinyasa. Participants also engaged in workshops focused on mindfulness and stress management, gaining practical techniques to incorporate yoga into their daily lives. Health and wellness booths provided resources on nutrition and holistic practices, along with free consultations from local health professionals. Activities for children included yoga games and storytelling, promoting family involvement.
Photograph Of activity	
Outcome	Increased participation in yoga practices worldwide, resulting in heightened awareness of its physical, mental, and emotional benefits..

Y. Man
Physical Director

S. B. Bari
Principal

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President :
Shri Amrishbhai R. Patel
M.L.A.

Principal :
Dr. S. B. Bari
M.Pharm. Ph.D., D.I.M.F.J.C.

Activity report

Submitted to

The Principal,

H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur

Name of Activity	Ayurveda Camp
Organizer	H. R. Patel Institute of pharmaceutical Education and Research Shirpur.
Venue	Central Library
Date of activity	25/08/23
Objectives	Maintenance and promotion of health, prevention of disease and cure of sickness. Ayurveda's aim is to maintain an equilibrium between body, mind, and soul to increase immunity and enable the body to develop the ability to fight and cure diseases. It helps to repair the body parts and tissues that may have been impacted due to the disease and the corresponding imbalance caused.
Guest	Dr. Kuldeep Raj Kohli Ex. Director of Ayush for the Government of Maharashtra
In charge	Mr. Ketan B. Patil NSS program officer and Ms. Rajshri T. Dhole Assistant NSS program officer
Number of Participant	15
Brief Report on activity	An Ayurveda Camp is a health and wellness event that focuses on the ancient Indian system of medicine known as Ayurveda. Typically organized in community settings or wellness retreats, these camps aim to promote holistic well-being by offering traditional Ayurvedic therapies, consultations, and educational sessions. Participants have the opportunity to engage with experienced Ayurvedic practitioners who assess their individual constitutions (doshas) and provide personalized recommendations for diet, lifestyle, and herbal remedies. Ayurveda, rooted in a holistic approach to health, emphasizes the balance of mind, body, and spirit. The camp often includes activities such as yoga, meditation, and workshops on Ayurvedic principles, fostering a comprehensive understanding of this natural healing system. Attendees gain insights into preventive healthcare, herbal treatments, and lifestyle practices that align with Ayurvedic principles, fostering a deeper connection with their overall well-being. Ayurveda Camps serve as immersive experiences that empower individuals to take an active role in enhancing their health and vitality through the timeless wisdom of Ayurveda.

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President :
Shri Amrishbhai R. Patel
M.L.A.

Principal :
Dr. S. B. Bari
M.Pharm. Ph.D., D.I.M.F.J.C.

Photograph
Of activity



Outcome

Students were given information about their health concerns and were made aware of the significance of Ayurveda.

Principal
Principal

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President :
Shri Amrishbhai R. Patel
M.L.A.



Principal :
Dr. S. B. Bari
M.Pharm. Ph.D., D.I.M.F.J.C.

Activity report (2023-24)

Submitted to

The Principal,

H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur

Name of Activity	29 August Sports Day Intercollege Chess Competition.
Organizer	H.R.P.I. P.E.R. Shirpur
Venue	H.R.P.I.P.E.R. Shirpur
Name of Speaker With contact details	Principal, Student & Faculty.
Date of activity	29/08/2023
Objectives	The objective of celebrating Sports Day with an Intercollege Chess Competition is to foster strategic thinking and sportsmanship among students, while promoting mental agility and healthy competition across colleges.
In charge	Director of Physical Education .H. R. P. I. P. E.R.
Number of Participant	Students - 23
Brief Report on activity	On The Intercollege Chess Competition, held as part of the Sports Day celebration, took place on 29/08/2023 at H. R. P. I. P. E.R. Participants from various colleges competed in a series of intense and strategically challenging matches, showcasing their skill, patience, and focus. The event aimed to promote critical thinking, sportsmanship, and camaraderie among students. Overall, the Intercollege Chess Competition successfully highlighted the importance of mental agility in sports, making it a memorable and inspiring day for all participants and attendees.
Photograph Of activity	 
Outcome	The Intercollege Chess Competition on Sports Day successfully enhanced camaraderie and teamwork among students, encouraged strategic skill-building, and celebrated intellectual sportsmanship, creating a vibrant and inclusive competitive spirit across colleges.

[Signature]
Physical Director

[Signature]
Principal

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Mr. Amrishbhai R. Patel
President
(M.L.A.)

Prof. Dr. S. B. Bari
Principal
(M. Pharm. Ph.D.)

The Shirpur Education Society's

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सूचना

दि. ११/०९/२०२३

सर्व शिक्षक व शिक्षकेतर कर्मचार्यांना कळविण्यात येते कि, मा. शालेय शिक्षण मंत्री श्री. अमरीशभाई पटेल यांच्या वाढदिवसानिमित्त आपल्या महाविद्यालयात भव्य रक्तदान शिबिराचे आयोजन करण्यात आले आहे. तरी इच्छुकांनी दि. १४/०९/२०२३ रोजी सकाळी १०:०० वाजेला उपस्थित राहावे.

नोंद:

१. रक्तदात्याचे वय १८ किंवा १८ हून अधिक असावे.
२. रक्तदात्याचे वजन ५० किंवा ५० किलोहून अधिक असावे.
३. रक्तदात्याने या अगोदर किमान महिन्यापूर्वीपर्यंत रक्तदान केलेले नसावे.

NSS Officer

Mr. K. B. Patil

NSS PROGRAM OFFICER

H.r.patel Institute of Pharmaceutical
Education & Research

Shirpur Dist. Dhule (M.S) 425405

SD Officer

Mr. N. P. Pawar

Principal

Dr. S. B. Bari

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Mr.Amrishbhai R.Patel
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सूचना

दि. ११/०९/२०२३

सर्व विद्यार्थ्यांना कळविण्यात येते कि, मा. शालेय शिक्षण मंत्री श्री. अमरीशभाई पटेल यांच्या वाढदिवसानिमित्त आपल्या महाविद्यालयात भव्य रक्तदान शिबिराचे आयोजन करण्यात आले आहे. तरी इच्छुकांनी दि. १४/०९/२०२३ रोजी सकाळी १०:०० वाजेला उपस्थित राहावे.

नोंद:

१. रक्तदात्याचे वय १८ किंवा १८ हून अधिक असावे.
२. रक्तदात्याचे वजन ५० किंवा ५० किलोहून अधिक असावे.
३. रक्तदात्याने या अगोदर किमान महिन्यापूर्वीपर्यंत रक्तदान केलेले नसावे.
४. इच्छुकांनी विद्यार्थ्यांनी आपले नाव वर्गशिक्षका १३/०९/२०२३ पर्यंत नोंदणी करावी.

NSS Officer

Mr. K. B. Patil

NSS PROGRAM OFFICER
H.r.patel Institute of Pharmaceutical
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SD Officer

Mr.N. P.Pawar



Principal

Dr. S. B. Bari

PRINCIPAL
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Shirpur Dist.Dhule(M.S) 425405

Date :- 13/09/23

To,
Class Teacher
HRPIPER, Shirpur

Respected Mam/sir,

Sub:- For approving a leave for
Blood donation camp.

Respected Sir/Mam,

We, the students of Third year B Pham
(A & B Div). We request you to approve our
one day leave for attending a Blood donation
camp as a NSS Volunteer. It is our humble
request to consider our attendance.

Waiting for your positive reply.

Thanking you

Approved

* Name of students (NSS Volunteers)
Attending Blood Donation camp

13/9/23 Roll no Class

			Div
1-	Gureshi Huzaifa Sadique	33	(B)
2.	Patil Yashashri Samar	30	(B)
3.	Patil Harshada Ishwar	07	(B)
4.	Patil Prachi Bhaskar	16	(B)
5.	Makawana Khushi Sanjay	43	(A)
6.	Kachhava Sakshi Sanjay	35	(A)
7.	Mahajan Krishna Dilip	40	(A)
8)	Joshi Atharva Vijay	34	(A)
9)	Jadhav Rahul Sukhdere	32	(A)
10	Abhange Naresh Yularaj	01	(A)

leave granted

13/09/23
only for 10 students





The Shirpur Education Society's
H. R. Patel Institute of Pharmaceutical
Education & Research,
Shirpur (Dhule)
NSS/Cultural Committee
Student Development Department




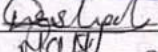
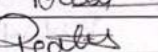
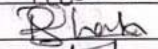
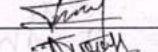
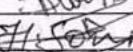

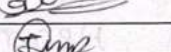
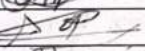
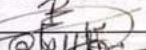
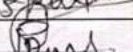
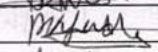
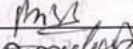
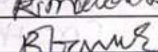
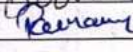

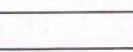
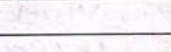

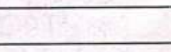
The following staff and students were present for blood donation on occasion of Birthday of
Hon. Shri. Amrishbhai Patel On 14/09/23 at HRPIPER

S. N.	Name	Designation	Sign	
1	Sakshi Deepak Bharati	student		↓ HB
2	Tejaswi Deepak Bari	Student		↓ HB
3	Pankaj Jyoti Bhoi	Student		
4	Rohit madhukar Bayle	student		
5	Dr. N.B. Chaudhari	Staff		
6	Raj Chandrakant Patil	student		Underage
7	Jadhav Harsha	Staff		↓ HB
8	Karvi Pravin [Haliwari]	Staff		↓ HB
9	Ms. Rajshree P. Shole	Staff		↓ HB
10	Mr. Vinod Patel	Staff		↓ HB
11	Hemraj B. Sonawane	Student		
12	Mr. Subhas Agey	Staff		
13	Mr. S.N. Jadhav	Staff		
14	Chaitan Rathi	Staff (A.P. Sec)		
15	Rohit Pawar	Student		
16	Meghalaj S. Patil	Student		
17	Kunal B. Patil	Student		
18	Gopal K. Mali	Student		
19	Prathmesh D. Deshmukh	Student		
20	Manishan Thakre	Student		
21	Pavai Sugandhi	TR		
22	Patil Vinayakrao Ramnath	TR		↓ HB
23	Nikita Sopan Chaudhary	Student		
24	Vivek Shriyansh Shabharwal	TR		
25	Pooja Anil Dargasing	Staff		
26	Bhil Sunil Gokul	TR		
27	Pradip Chavan	Student		↓ HB
28	Raj Banjara	Student		↓ HB
29	Sanyukta N. Pawar	Student		↓ HB
30	Dr. Ganesh Bansri Patil	Staff		
31	Utkarsh Uttamrao Bhamare	Student		
32	Parasid Jagannath Rodge	Student		
33	Aadrika Kishor Bhodane	Student		↓ HB
34	Rohit Patil	Student		
35	Vishal Patil	Student		
36	Paran Shailendra Patil	Student		
37	Nilesh Sankar Kani	Student		
38	Akash Patil	Student		
39	Dr. Rahul Tade	Staff		

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S. N.	Name	Designation	Sign
40	Sarthak Shah	student	
41	Divya Shah	student	
42	Patil Neha	student	
43	Patil Ritika	student	
44	Ruhi Shah	student	
45	Dhankesh B. Patil	Student	
46	Saurabh A. Telang	— u —	
47	Soni Himanshu D	— // —	
48	Arani Bhavsa	— / —	
49	Grass Pawar	— / —	
50	Tanushai Patil	7/—	
51	Ankita Puri	— / —	
52	Rahul Sudhan	student	
53	Kumar Sakshi	— / —	
54	myanka Nikam	student	
55	Pankaj Ladhe	student	
56	Patel greeshma mahesh	student	
57	Mahajan Rajendra Thakuram	staff	
58	Bhavisat Ratantol Bhaskar	staff	
59	Mr. Arun Kumar shah	staff	

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President :
Shri Amrishbhai R. Patel
M.L.A.

Principal :
Dr. S. B. Bari
M.Pharm. Ph.D., D.I.M.F.J.C.

Activity report
Submitted to
The Principal,
H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur

Name of Activity	Blood Donation Camp
Organizer	H. R. Patel Institute of pharmaceutical Education and Research Shirpur.
Venue	HRPIPER
Date of activity	14/09/2023
Objectives	Support to Critical Patients: Blood donation camps are organized with the purpose of supplying blood to the blood banks for the need of patients suffering from cancer, hemophilia, and thalassemia or accident victims. It can help patients suffering from life-threatening conditions live longer and with a higher quality of life and supports complex medical and surgical procedures.
In charge	Mr. Ketan B. Patil NSS program officer and Ms. Rajshri T. Dhole Assistant NSS program officer
Number of Participant	75
Brief Report on activity	On September 14, 2022, a blood donation camp was held in honour of Hon. Amrishbhai Patel. 77 people, including employees and students, donated blood during this blood donation camp. This group project was planned to teach the pupils about social responsibility. Students from the NSS unit contributed to the event's smooth execution.



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'Serving Nation's Health'

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President :
Shri Amrishbhai R. Patel
M.L.A.

Principal :
Dr. S. B. Bari
M.Pharm. Ph.D., D.I.M.F.J.C.

Photograph
Of activity



Outcome

A tremendous volume of blood was collected for the needy with the assistance of blood donors.

Principal
H.R. Patel Institute of Pharmaceutical
Education & Research,
Shirpur Dist Dhule (M.S.) 425 405

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President :
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M.L.A.

Principal :
Dr. S. B. Bari
M.Pharm. Ph.D., D.I.M.F.J.C.

Activity report (2023-24)

Submitted to

The Principal,

H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur

Name of Activity	K.B.C.N.M.U. Jalgaon Under Dhule Zone Inter College Yoga M/W Competition.
Organizer	M.D.Palesha College Dhule.
Venue	M.D.Palesha College Dhule
Name of Speaker With contact details	Dhule Sports President, Secretary & Principal College Student & Faculty.
Date of activity	3/10/2023
Objectives	The objective of celebrating the Inter College Yoga M/W Competition is to promote physical and mental well-being among students, while fostering discipline, concentration, and a healthy lifestyle. It also encourages friendly competition and unity across colleges through the practice of yoga.
In charge	Principal, H. R. P. I. P. E.R. and Sport In- charge
Number of Participant	Student 5 Teachers - 1
Brief Report on activity	The Inter College Yoga M/W Competition brought together students from various colleges to showcase their skills in flexibility, balance, and mindfulness. The event promoted physical fitness, mental clarity, and overall well-being, fostering a spirit of healthy competition and unity among participants.
Photograph Of activity	
Outcome	The outcome of the Inter College Yoga M/W Competition was a successful display of physical endurance and mental focus, with participants gaining recognition for their discipline and skill.

Y. Thakur
Physical Director

S. B. Bari
Principal
H.R.Patel Institute of Pharmaceutica
Education & Research,
Shirpur Dist Dhule (M.S.) 425 405

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President :
Shri Amrishbhai R. Patel
M.L.A.


Principal :
Dr. S. B. Bari
M.Pharm. Ph.D., D.I.M.F.J.C.

Activity report (2023-24)

Submitted to

The Principal,

H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur

Name of Activity	K.B.C.N.M.U.Jalgaon under Dhule zone intercollege Table Tennis, Boxing, Competition.
Organizer	S.P.D.M. College Shirpur.
Venue	S.P.D.M. College Shirpur..
Name of Speaker With contact details	Dhule Sports President, Secretary & Principal College Student & Faculty.
Date of activity	5/10/2022
Objectives	The objective of celebrating the Intercollege Table Tennis and Boxing Competition is to promote athletic excellence, resilience, and discipline among students.
In charge	Physical Director , H. R. P. I. P. E.R.
Number of Participant	Student 5 Teachers - 1
Brief Report on activity	The Intercollege Table Tennis and Boxing Competition saw enthusiastic participation from students, showcasing remarkable skills and determination in both sports. The event fostered a spirit of healthy competition, discipline, and sportsmanship, while providing a platform for students to excel in fast-paced and physically demanding activities.
Photograph Of activity	
Outcome	The outcome of the Intercollege Table Tennis and Boxing Competition was a strengthened sense of camaraderie and competitive spirit among students, with participants gaining valuable experience and recognition for their athletic abilities.

Y. Thakur
Physical Director

S. B. Bari
Principal
H.R.Patel Institute of Pharmaceutica
Education & Research,
Shirpur Dist Dhule (M.S.) 425 405

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President :
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M.L.A.

Principal :
Dr. S. B. Bari
M.Pharm. Ph.D., D.I.M.F.J.C.

Activity report
Submitted to
The Principal,
H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur

Name of Activity	"स्वच्छ भारत अभियाना" अंतर्गत "एक तारीख, एक तास, व एक साथ श्रमदान"
Organizer	H. R. Patel Institute of pharmaceutical Education and Research Shirpur.
Venue	HRPIPER
Date of activity	01/10/2023.
Objectives	The day serves as a tribute to Mahatma Gandhi, the father of the nation.
In charge	Mr. Ketan B. Patil NSS program officer and Ms. Rajshri T. Dhole Assistant NSS program officer
Number of Participant	20
Brief Report on activity	National call for citizen-led 1 hour labor donation for cleanliness on October 1, 2023 at 10 am. Nine years ago, Prime Minister Shri Narendra Modi called for cleanliness in 2014. Citizens from all walks of life responded with great enthusiasm to take ownership for a clean India. On the occasion of Gandhi Jayanti, the Prime Minister has made a unique appeal to the countrymen to take action. On the eve of Babu's birth anniversary, all the students and teaching and non-teaching staff together gave 'Swachhanjali' to him. As per the theme Swachhta Hi Seva Abhiyaan, "On 1st October i.e. Sunday at 10 am a big program was organized on cleanliness. At that time, the students and teachers and non-teaching staff helped in this cleanliness drive from time to time, in which they cleaned the college premises.



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President :
Shri Amrishbhai R. Patel
M.L.A.

Principal :
Dr. S. B. Bari
M.Pharm. Ph.D., D.I.M.F.J.C.



Photograph
Of activity

औषधनिर्माणशास्त्र महाविद्यालयात स्वच्छता ही सेवा कार्यक्रम

■ शिरपूर । प्रतिनिधी

एच. आर. पटेल
औषधनिर्माण शास्त्र
महाविद्यालय, राष्ट्रीय सेवा
योजना विभाग तर्फे स्वच्छ
भारत अभियान अंतर्गत एक
तारीख, एक तास व एक
साथ श्रमदान कार्यक्रम साजरा
करण्यात आला.

स्वच्छ भारत अभियाना
अंतर्गत एक तारीख, एक तास,
एक साथ श्रमदान कार्यक्रमाच्या
माध्यमातून विद्यार्थ्यांनी आपल्या
वैयक्तिक स्वच्छतेसह, घर व
परिसर स्वच्छ ठेवून पालकांना
स्वच्छता कार्यात नेहमीच मदत
करावी. सोबतच सर्वांनी मनाची

स्वच्छता देखील करावी या
उत्की प्रमाणे आणि स्वच्छता
कार्य केवळ एक दिवसासाठी
न ठेवता सातत्यपूर्ण ठेवल्यास
आरोग्य स्वस्थ राहते, सोबतच
मन प्रसन्न राहते या प्रेरणेतून
आणि पंतप्रधान नरेंद्र मोदी
यांनी केलेल्या आवाहनानुसार
महाविद्यालयाच्या परिसरात
स्वच्छता मोहीम राबविण्यात
आली त्यातून महाविद्यालयाच्या
सभोवतालचा परिसर स्वच्छ
करण्यात आला. याप्रसंगी
प्राचार्य डॉ. एस. बी. बारी,
प्रा. पी. बी. निनावे, प्रा. राहुल
ताडे, प्रा. नारायण पवार,
केतन पाटील, एस. डी. बागुल
उपस्थित होते.

Outcome

As a result, swachhata became a national behavior and Swachh Bharat Mission became a household name.

Principal

H.R. Patel Institute of Pharmaceutical
Education & Research,

H. R. Patel Institute of Pharmaceutical Education and Research

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The Shirpur Education Society's
H. R. Patel Institute of Pharmaceutical
Education & Research,
Shirpur (Dhule)
NSS/Cultural Committee
Student Development Department



The following staffs and students were present for the celebration of

"राज्यातील सेवा"

On 01/10/2023 at HRPIMER

S. N.	Name	Designation	Sign
1			
2	Dr. P. B. Ninave		
3	Mr. S. D. Bagul	Registrar	
4	R. M. Patil	R. M. Patil	pear
5	Mr. Zabiullah K. A. Khafik	Lecturer	
6	Mr. Dhamji C. Patil	Lab Assislt	
7	Mr. Narayan P. Pawar	Assistant prof.	
8	Dr. Rahul S. Tade	Dent prof.	
9	Mr. Vinod H. Patel	Librarian	
10	Mr. Y. B. Thakur	Phy. Director	
11	Jyotsna Nandkishor Jadhav	NSS Volunteer	
12	Sonawane Nivedita Yuvraj	-11-	
13	Roshni Atul Gujarathi	-11-	
14	Tejaswini Dattatray Shinde	-11-	
15	Pranjali manik sunawanshi	-11-	
16	Vrushali mahesh wani	-11-	
17	Saurav Bapusaheb Patil	-11-	
18	Patil Yashashri Samar	-11-	
19	Patil Harshada Ishwar	-11-	
20	Manome Ashish Subhash	-11-	
21	Magar chetana Sanjay	-11-	
22	Yeote Aniya Anand	-11-	
23	Abhange Nareb Yuvraj	-11-	
24	Mr. K. B. Patil	Assistant Prof	
25	Mr. M. K. Mahajan	-11-	
26	Mr. P. B. Hire	Registrar	
27	Gujarati mayesha Anandkumar	NSS volunteer	



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President :
Shri Amrishbhai R. Patel
M.L.A.

Principal :
Dr. S. B. Bari
M.Pharm. Ph.D., D.I.M.F.J.C.

Activity report (2023-24)
Submitted to
The Principal,

H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur

Name of Activity	K.B.C.N.M.U.Jalgaon under Dhule zone intercollege Weightlifting, Power & Bodybuilding Competition.
Organizer	S.S.V.P.S. College Shindkheda.
Venue	S.S.V.P.S. College Shindkheda.
Name of Speaker With contact details	Dhule Sports President, Secretary & Principal College Student & Faculty.
Date of activity	08/11/2023
Objectives	The objective of celebrating the Intercollege Weightlifting, Powerlifting, and Bodybuilding Competition is to promote strength, discipline, and physical fitness among students.
In charge	Physical Director, H. R. P. I. P. E.R.
Number of Participant	Student 02 Teachers - 01
Brief Report on activity	The Intercollege Weightlifting, Powerlifting, and Bodybuilding Competition featured remarkable displays of strength, dedication, and discipline from students across various colleges. Participants showcased their physical prowess in different categories, from weightlifting to bodybuilding, with each competitor pushing their limits to achieve personal and collective goals. The event created an inspiring atmosphere, emphasizing the importance of hard work, perseverance, and mental focus in strength-based sports. It also fostered a spirit of healthy competition and camaraderie among participants, leaving a lasting impression on both competitors and spectators.
Photograph Of activity	 
Outcome	The outcome of the Intercollege Weightlifting, Powerlifting, and Bodybuilding Competition was a celebration of strength, discipline, achieving impressive personal milestones.

Y. H. Patel
Physical Director

S. B. Bari
Principal

H. R. Patel Institute of Pharmaceutical Education and Research

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President :
Shri. Amrishbhai R. Patel
M.L.C.


Principal :
Dr. S. B. Bari
M.Pharm. Ph.D., D.I.M.F.I.C.

Activity report

Submitted to

The Principal,

H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur

Name of Activity	Social Awareness Rally on World AIDS Day
Organizer	H. R. Patel Institute of pharmaceutical Education and Research Shirpur.
Venue	HRPIPER
Date of activity	1 st December 2023
Objectives	To raise awareness about HIV/AIDS among the community. The event aimed to disseminate crucial information regarding HIV prevention, treatment, and support. Through this collaborative effort, the participants sought to highlight the importance of collective action in combating the spread of HIV, emphasizing the role of education and community involvement in addressing the challenges posed by the epidemic.
In charge	Dr. Z. G. Khan
Number of Participant	105
Brief Report on activity	In a remarkable display of solidarity and commitment to raise awareness about HIV/AIDS, students of H. R. Patel Institute of Pharmacy, Shirpur orchestrated a vibrant rally on World AIDS Day. The event, held on 1st December 2023, brought together enthusiastic participants from the institute, joining hands to disseminate crucial information about HIV prevention, treatment, and support. The event's highlight was the presence of esteemed dignitaries, including the institute's Principal, Dr. S. B. Bari Sir, and Dr. P. B. Nin Ninave, and distinguished guests Dr. D. R. Patil Sir and Dr. Shidkhedkar Sir. Their participation underscored the significance of collaborative efforts in combating the spread of HIV and promoting awareness.
Photograph Of activity	



The Shirpur Education Society's

H. R. Patel Institute of Pharmaceutical Education and Research

NBA reaccredited B.Pharm Programme [2022-2025] : NAAC Accredited with 'A' Grade

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M.L.C.

Principal :
Dr. S. B. Bari
M.Pharm. Ph.D., D.I.M.F.I.C.

	<div><p>Social Awareness Rally Organized by IQAC and Department of Pharmaceutical Chemistry On Occasion of – World AIDS Day Theme: “Let Communities Lead” Date: 01 December 2023 Time: 10:00 am</p></div> <div></div> <div><p>Shirpur Education Society's H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur Dist. Dhule (NBA re-accredited 2022-2025, ISO 9001:2008 Certified) (NIRF 2020: Pharmacy Rank Band: 76-100)</p></div>
Outcome	<p>The event effectively disseminated crucial information on HIV prevention, treatment, and support. By fostering a collaborative environment, the rally highlighted the importance of collective action in addressing the challenges posed by the epidemic, emphasizing the role of education and community involvement in combating the spread of HIV and promoting greater awareness and understanding.</p>




Dr. S. B. Bari
Principal

H.R.Patel Institute of Pharmaceutical
Education & Research,
Shirpur Dist Dhule (M.S.) 425 405

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Shri. Amrishbhai R. Patel
M.L.C.

Principal :
Dr. S. B. Bari
M.Pharm. Ph.D., D.I.M.F.I.C.

Activity report

Submitted to

The Principal,

H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur

Name of Activity	Bharat 2047 Voice of Youth Consultation Online Program
Organizer	H. R. Patel Institute of pharmaceutical Education and Research Shirpur.
Venue	Third Floor B. Pharm Class Room No. 1, HRPIPER, Shirpur
Date of activity	11 th December 2023
Objectives	To achieve the goal of Viksit Bharat, the government will focus on improving people's capabilities and empowering them.
In charge	Mr. N. P. Pawar
Number of Participant	38
Brief Report on activity	Bharat 2047 Voice of Youth Consultation Program developed by University Grants Commission, New Delhi has been conducted online at HR Patel Pharmacy College Shirpur today on 11th December 2023 at 10:30 AM. Principal Dr. S. B. Bari for this program was attended by student development officers, professors, non-teaching staff, and students in large numbers.
Photograph Of activity	

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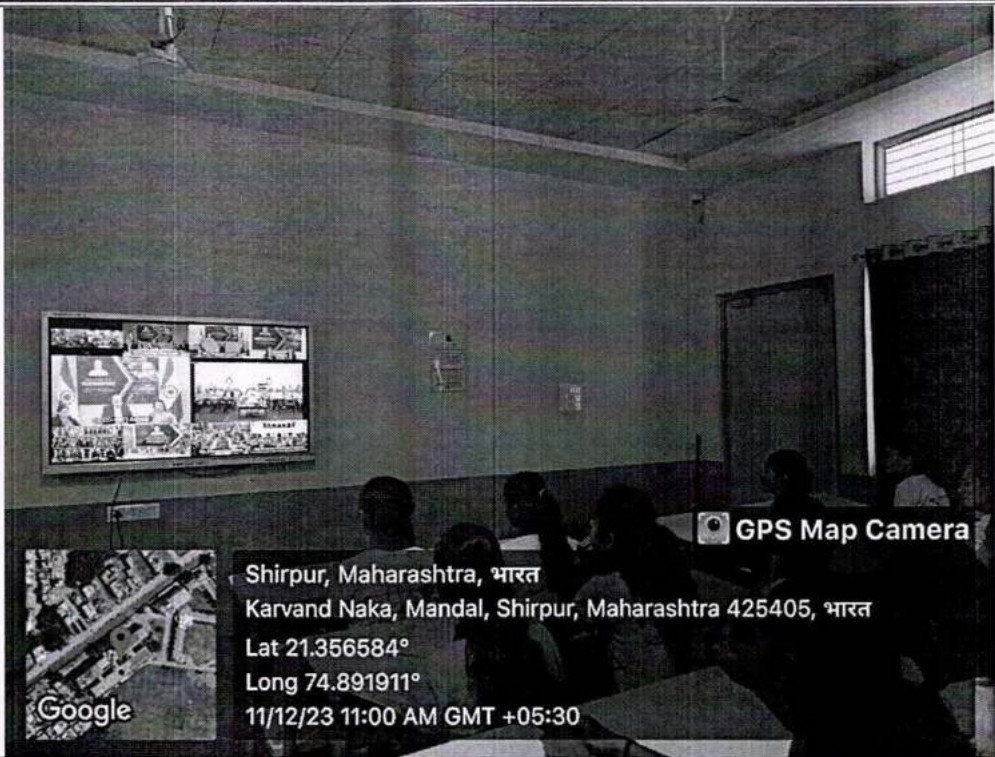
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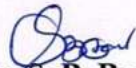
President :
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M.L.C.

Principal :
Dr. S. B. Bari
M.Pharm. Ph.D., D.I.M.F.I.C.

	 <p>GPS Map Camera</p> <p>Shirpur, Maharashtra, भारत Karvand Naka, Mandal, Shirpur, Maharashtra 425405, भारत Lat 21.356584° Long 74.891911° 11/12/23 11:00 AM GMT +05:30</p> <p>Google</p>
Outcome	The Viksit Bharat @2047: Voice of Youth was launched to realise the vision of Viksit Bharat, which demands a firm belief in India's destiny, unwavering dedication and a profound recognition of the people's vast potential capabilities and talent, particularly the youth.


Mr. N. P. Pawar
Student development Officer




Dr. S. B. Bari
Principal
H.R. Patel Institute of Pharmaceutical
Education & Research,
Shirpur Dist Dhule (M.S.) 425 405

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M.L.A.


Principal :
Dr. S. B. Bari
M.Pharm. Ph.D., D.I.M.F.J.C.

Activity report (2023-24)

Submitted to

The Principal,

H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur

Name of Activity	K.B.C.N.M.U.Jalgaon under Dhule Zone Intercollege Cricket Competition.
Organizer	R. C. Patel Pharmacy College Shirpur.
Venue	H.R.P.I.P.E.R. Shirpur
Name of Speaker With contact details	Dhule Sports President, Secretary & Principal College Student & Faculty.
Date of activity	17/12/2023
Objectives	The objective of celebrating the Intercollege Cricket Competition is to promote teamwork, sportsmanship, and physical fitness among students.
In charge	Physical Director, H. R. P. I. P. E.R.
Number of Participant	Student 05 Teachers - 01
Brief Report on activity	The Intercollege Cricket Competition brought together teams from various colleges, each showcasing their cricketing skills in an exciting and competitive environment. The matches were filled with intense moments of strategy, athleticism, and sportsmanship, with players demonstrating excellent teamwork and individual talent. The event fostered a sense of unity and enthusiasm among participants and spectators alike, creating a vibrant atmosphere of healthy competition. Overall, the competition highlighted the spirit of the game and strengthened the connections between colleges through the love of cricket.
Photograph Of activity	
Outcome	The outcome of the Intercollege Cricket Competition was a successful display of skill, teamwork, and sportsmanship, with participants gaining valuable experience and recognition for their performance.

Francis
Physical Director

S.B. Bari
Principal
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M.L.C.


Principal :
Dr. S. B. Bari
M.Pharm. Ph.D., D.I.M.F.I.C.

Activity report

Submitted to

The Principal,

H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur

Name of Activity	One day seminar on "Women's Health Enhancement Seasonal Campaign."
Organizer	H. R. Patel Institute of pharmaceutical Education and Research Shirpur.
Venue	HRPIPER
Date of activity	3 rd January 2024
Objectives	Educate participants about the importance of women's health, particularly in the context of seasonal changes. Discuss specific health challenges faced by women during different seasons and provide strategies for prevention and management. Raise awareness about the "Women's Health Enhancement Seasonal Campaign."
In charge	Mr. N. P. Pawar
Number of Participant	89
Brief Report on activity	A guest lecture was held on the topic of "Women's Health Enhancement Seasonal Campaign." A guest lecturer for this Seminar Dr. Supriya Pantvaidya madam and Dr. Manisha Gaud madam was welcomed by the principal of the college Dr. S. B. Bari presented the bouquet. The direction of the lecture was steered by the students of Khopragade College, while gratitude was expressed by Prof. N. P. Pawar. The lecture was attended by all women's staff, and girl students of the college. Dr. Supriya Pantvaidya madam madam and Dr. Manisha Gaud madam share the importance of women's health, particularly in the context of seasonal changes.
Photograph Of activity	 <p>GPS Map Camera</p> <p>Shirpur, Maharashtra, India Shri padmavati nagar, Shahada road Near pharmacy college, in front of Recreation Garden, Mandal, Shirpur, Maharashtra 425405, India Lat 21.354704° Long 74.893475° 03/01/24 12:47 PM GMT +05:30</p>

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Outcome

Gain a comprehensive understanding of the unique health challenges faced by women during different seasons. Engage in constructive discussions and knowledge-sharing sessions with experts, peers, and stakeholders in the field of women's health.


Mr. N. P. Pawar
Student development Officer




Dr. S. B. Bari
Principal
H.R.Patel Institute of Pharmaceutical
Education & Research,
Shirdpur Dist Dhule (M.S.) 425 405

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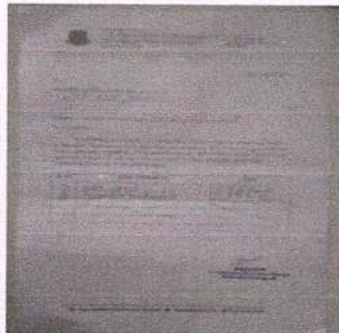
Principal :
Dr. S. B. Bari
M.Pharm. Ph.D., D.I.M.F.J.C.

Activity report (2023-24)

Submitted to

The Principal,

H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur

Name of Activity	K.B.C.N.M.U.Jalgaon under Dhule zone intercollege Cricket Competition.
Organizer	K.B.C.N.M.U.Jalgaon under Dhule zone College Shirpur.
Venue	H.R.P.I.P.E.R. Shirpur.
Name of Speaker With contact details	Dhule Sports President, Secretary & Principal College Student & Faculty.
Date of activity	06/01/2024
Objectives	The objective of celebrating the K.B.C.N.M.U. Jalgaon under Dhule Zone Intercollege Cricket Competition is to promote cricketing talent and sportsmanship among students in the Dhule zone.
In charge	Physical Director, H. R. P. I. P. E.R.
Number of Participant	Student 02 Teachers - 01
Brief Report on activity	The K.B.C.N.M.U. Jalgaon under Dhule Zone Intercollege Cricket Competition brought together college teams from the Dhule region, highlighting the students' cricketing skills and sportsmanship. The event fostered healthy competition, teamwork, and camaraderie among colleges, while providing an exciting platform for emerging cricketers.
Photograph Of activity	 
Outcome	Faculty of the college were made aware about the importance of Sport in health.

Physical Director
Physical Director

Principal
Principal
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M.L.C.

Principal :
Dr. S. B. Bari
M.Pharm. Ph.D., D.I.M.F.I.C.

Activity report

Submitted to

The Principal,

H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur

Name of Activity	Women's Health Checkup Camp at Lauki
Organizer	H. R. Patel Institute of pharmaceutical Education and Research Shirpur.
Venue	Lauki Tal-Shirpur
Date of activity	10 January 2024
Objectives	To provide women in the community with access to comprehensive health screenings. To assess hematological parameters, including CBC and total blood count, to identify any abnormalities or health concerns. To offer medical expertise and guidance through the checkup conducted by Dr. Sachin Shah from Shradha Clinical Laboratory. To engage College SDD and NSS students in community service and health promotion activities.
In charge	Mr. N. P. Pawar, Mrs. Sonal Shah
Number of Participant	60
Brief Report on activity	A women's health checkup camp was held at Lauki, tal- shirpur. Hematological parameters, including CBC and total blood count, were determined during the camp. Dr. Sachin Shah from Shradha Clinical Laboratory conducted the checkup. College SDD and NSS students assisted in ensuring the smooth conduction of the camp.
Photograph Of activity	

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M.Pharm. Ph.D., D.I.M.F.I.C.



Outcome

Identification of any abnormalities or health concerns related to hematological parameters through CBC and total blood count screenings. Increased awareness among women in the community about the importance of regular health checkups and early detection of health issues. Enhanced community engagement and collaboration between healthcare professionals, educational institutions, and the local community for promoting women's health and well-being.

R. Pawar
Mr. N. P. Pawar
Student development Officer



Dr. S. B. Bari
Dr. S. B. Bari
Principal
H.R. Patel Institute of Pharmaceutical
Education & Research,
Shirdpur Dist Dhule (M.S.) 425 405

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Activity report (2023-24)

Submitted to

The Principal,

H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur

Name of Activity	K.B.C.N.M.U. Jalgaon under Zonal Intercollege Cricket Competition.
Organizer	K.B.C.N.M.U. Jalgaon under Nandurbar zone intercollege Women Cricket Competition.
Venue	P.S.V.P. Lonkheada, College Shahada
Name of Speaker With contact details	Dhule Sports President, Secretary & Principal College Student & Faculty.
Date of activity	11/01/2024 to 12/01/2024
Objectives	The objective of celebrating the K.B.C.N.M.U. Jalgaon Under Nandurbar Zone Intercollege Women Cricket Competition is to empower women athletes and promote gender equality in sports.
In charge	Physical Director, H. R. P. I. P. E.R.
Number of Participant	Student 01 Teachers - 01
Brief Report on activity	The K.B.C.N.M.U. Jalgaon under Nandurbar Zone Intercollege Women's Cricket Competition featured competitive matches with talented female cricketers from various colleges. The event highlighted athletic skill, teamwork, and sportsmanship, promoting women's participation in sports and fostering unity across colleges.
Photograph Of activity	 
Outcome	The outcome of the K.B.C.N.M.U. Jalgaon under Nandurbar Zone Intercollege Women's Cricket Competition was a display of exceptional talent and teamwork, with participants demonstrating strong cricketing skills.

Physical Director
Physical Director

Principal
Principal
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M.L.C.

Principal :
Dr. S. B. Bari
M.Pharm. Ph.D., D.I.M.F.I.C.

Activity report
Submitted to
The Principal,

H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur

Name of Activity	Guest Lecture on Women's Awareness Campaign on Menstruation
Organizer	H. R. Patel Institute of pharmaceutical Education and Research Shirpur.
Venue	HRPIPER
Date of activity	18 January 2024
Objectives	Educate participants about the importance of women's health, particularly in the context of seasonal changes. Discuss specific health challenges faced by women during different seasons and provide strategies for prevention and management. Raise awareness about the "Women's Health Enhancement Seasonal Campaign."
In charge	Mr. N. P. Pawar and Mrs. Sonal Shah
Number of Participant	37
Brief Report on activity	A guest lecture was held on the topic of " Women's Awareness Campaign on Menstruation." A guest lecturer for this Mrs. Pratibha Chaudhari madam was welcomed by the Mrs. Sonal Shah presented the bouquet. The direction of the lecture was steered by the students of Khopragade College, while gratitude was expressed by Prof. N. P. Pawar. The lecture was attended by all women's staff, and girl students of the college. Mrs. Pratibha Chaudhari madam shares the importance of women's health, particularly in the context of Menstruation period.
Photograph Of activity	 <p>REDMI NOTE 8 PRO AI QUAD CAMERA</p> <p>18/01/2024 15:29</p>



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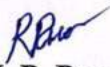


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AI QUAD CAMERA

18/01/2024 15:28

Outcome

Gain a comprehensive understanding of the unique health challenges faced by women during different seasons. Engage in constructive discussions and knowledge-sharing sessions with experts, peers, and stakeholders in the field of women's health.


Mr. N. P. Pawar
Student development Officer




Dr. S. B. Bari
Principal
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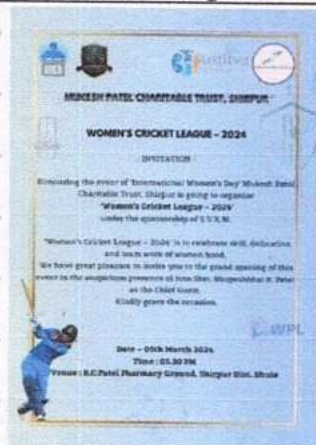


Principal :
Dr. S. B. Bari
M.Pharm. Ph.D., D.I.M.F.J.C.

Activity report (2023-24)

Submitted to

The Principal,

H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur

Name of Activity	05 March -09 March 2024 Women's Day Cricket League
Organizer	Mukesh Patel Charitable Trust
Venue	R.C.P.I.P.E.R. College Shirpur ,
Name of Speaker With contact details	SES Secretary & Principal Teaching non-Teaching Women's Staff.
Date of activity	05/03/2024 to 09/03/2024
Objectives	The objective of celebrating the Women's Day Cricket League is to empower and celebrate women athletes through sports, promoting gender equality and inclusivity in cricket.
In charge	Principal, H. R. P.I.P.E.R. and Director of Physical Education
Number of Participant	Students- 25 Girls 18 Teachers - 7
Brief Report on activity	The Women's Day Cricket League, held from 5th to 9th March 2024, was an empowering and exciting event that brought together women cricketers from various colleges and communities. The league featured highly competitive matches, with teams displaying remarkable skill, strategy, and teamwork on the field. The atmosphere was filled with energy and support, as players competed not only for victory but also for the celebration of women's achievements in sports. The event was a significant step in promoting gender equality in cricket, providing a platform for women athletes to shine. Spectators and participants alike were inspired by the talent and passion displayed throughout the league.
Photograph Of activity	  
Outcome	The Women's Day Cricket League successfully achieved its objective of empowering women through sports, with outstanding performances from all participants.

S. Bari
Physical Director

S. Bari
H.R. Patel Institute of Pharmaceutical Education & Research,
Shirpur Dist Dhule (M.S.) 425 405.

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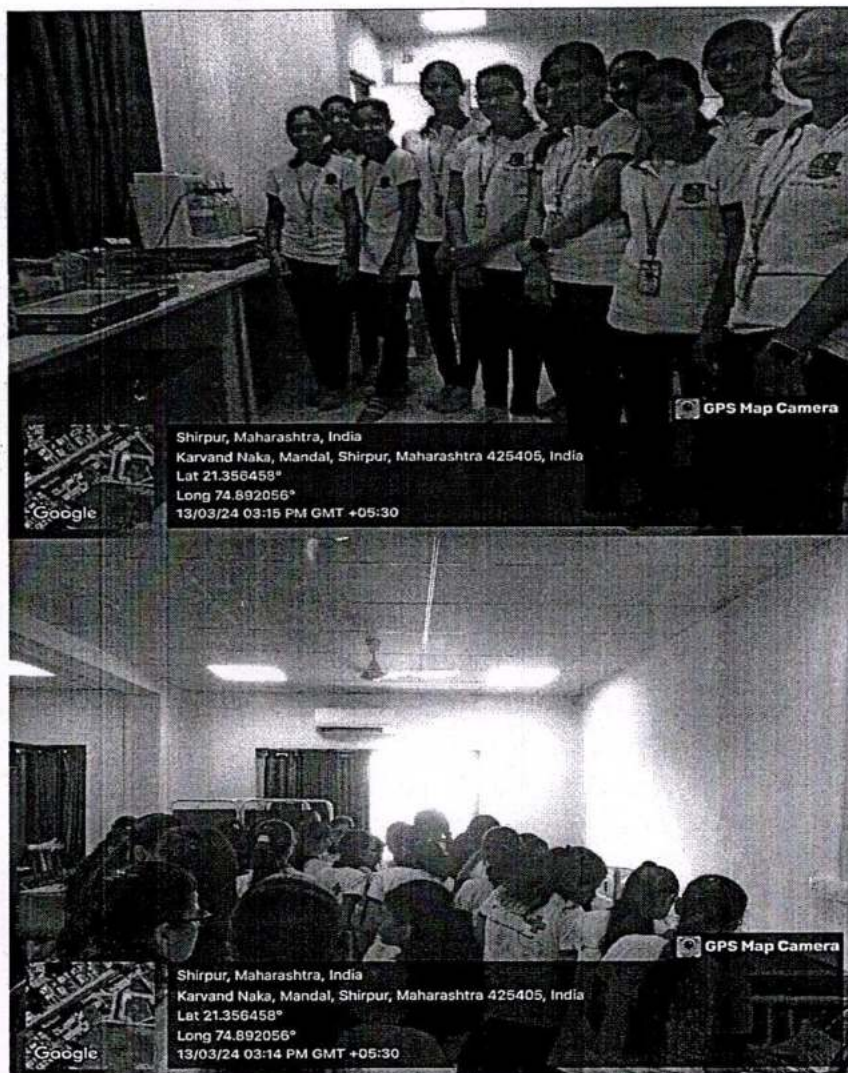
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Name of Activity	Women Employment visit at hospital
Organizer	Student Development Department of KBCNMU, Jalgaon, and HRPIPER, Shirpur Organized jointly
Venue	Third floor Primary Health Care Hospital HRPIPER, Shirpur
Date of activity	13 th March 2024
Event Coordinator	Mr. N. P. Pawar
Speaker Name	-
Objectives	Discuss & verbalize the role of a basic healthcare provider Demonstrate techniques to maintain the personal hygiene needs of a patient, Practice infection control measures, Demonstrate the ability to perform clinical skills essential in providing basic healthcare services, Promote safety, understand usage of protective devices and demonstrate precautions to be taken while usage of Oxygen, Demonstrate Basic Life Support, Cardio Pulmonary Resuscitation and other actions in the event of medical and facility emergencies
Number of Participant	61
Brief Report on activity	The girl students visited the Primary Health Care Hospital located on the third floor of HRPIPER, Shirpur, where they underwent the General Duty Assistant Advanced Course conducted by the Government of India to facilitate employment opportunities. During the course, the students demonstrated their ability to perform essential clinical skills necessary for providing basic healthcare services. They also learned about promoting safety, understanding the usage of protective devices, and demonstrated precautions to be taken when using Oxygen, performing Basic Life Support, Cardio Pulmonary Resuscitation, and other necessary actions in the event of medical and facility emergencies.
	 <p>GPS Map Camera</p> <p>Shirpur, Maharashtra, India Kavind Naka, Mandal, Shirpur, Maharashtra 425401, India Lat 21.356639° Long 74.89203° 13/03/24 03:18 PM GMT +05:30</p> <p>Google</p>



**Photograph
Of activity**




Outcome

They gained a comprehensive understanding of safety promotion, proper utilization of protective equipment, and demonstrated adeptness in observing precautions while handling Oxygen, administering Basic Life Support, conducting Cardio Pulmonary Resuscitation, and managing various medical and facility emergencies.

R. Pawar
Mr. N. P. Pawar
Student Development Officer



S. B. Bari
Dr. S. B. Bari
Principal
H.R. Patel Institute of Pharmaceutical
Education & Research,
Shirpur Dist Dhule (M.S.) 425 405

Name of Activity	Guest lecture on Young Women and Social Media
Organizer	Student Development Department of KBCNMU, Jalgaon, and HRPIPER, Shirpur Organized jointly
Venue	HRPIPER Seminar hall, Shirpur
Date of activity	16 th March 2024
Event Coordinator	Mr. N. P. Pawar
Speaker Name	Dr. Vivekanand L. Chavan
Objectives	Stress the importance of developing digital literacy skills and critical thinking abilities to navigate social media effectively. Encourage the audience to question content authenticity and recognize manipulation tactics.
Number of Participant	88
Brief Report on activity	A guest lecture was held on the topic of Young Women and Social Media. A guest lecturer for this Dr. Vivekanand L. Chavan sir was welcomed by the principal of the college Dr. S. B. Bari presented the bouquet. The direction of the lecture was steered by the students of Khopragade College, while gratitude was expressed by Prof. N. P. Pawar. The lecture was attended by first and second year B. Pharm girl students of the college. Dr. Vivekanand L. Chavan Showcased instances where social media serves as a tool for young women's empowerment, activism, and community-building. Highlighted successful campaigns and movements led by young women online.
Photograph Of activity	





President :
Shri Amrishbhai R. Patel
M.L.A.

Principal :
Dr. S. B. Bari
M.Pharm. Ph.D., D.I.M.F.J.C.

Activity report (2023-24)

Submitted to

The Principal,

H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur

Name of Activity	PIMS (DU) State Level Pharma Cricket Cup 2024 intercollege Cricket Competition.
Organizer	PIMS(DU) College of Pharmaceutical Sciences Loni,
Venue	PIMS Sports Ground Loni, Ahmednagar. (M.S.)
Name of Speaker With contact details	Sports President, Secretary & Principal College Student & Faculty.
Date of activity	18/01/2024 to 21/01/2024
Objectives	The objective of the PIMS (DU) State Level Pharma Cricket Cup 2024 is to encourage participation and showcase cricketing talent among pharmacy students across colleges.
In charge	Physical Director, H. R. P. I. P. E.R.
Number of Participant	Student 14 Teachers - 01
Brief Report on activity	The PIMS (DU) State Level Pharma Cricket Cup 2024 brought together teams from various pharmacy colleges across the state, offering a dynamic and competitive environment for participants. The event was marked by high-energy matches where players demonstrated excellent cricketing skills, teamwork, and sportsmanship. The matches included both singles and team categories, with enthusiastic participation from students who were eager to prove their abilities on the field. The tournament fostered a sense of camaraderie among pharmacy students and highlighted the importance of physical activity and community building within the academic environment. The event was well-organized and provided a great platform for students to interact, enjoy the sport, and compete in a professional setting.
Photograph Of activity	
Outcome	The outcome of the PIMS (DU) State Level Pharma Cricket Cup 2024 was highly successful, with a strong display of cricketing talent, teamwork, and school spirit.

Y. Hariz
Physical Director

H. R. Patel Institute of Pharmaceutical Education and Research

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