

Course Description

BP 505 T. PHARMACEUTICAL JURISPRUDENCE (Theory)

45 Hours

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

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

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

Course Content:

UNIT-I

10 Hours

Drugs and Cosmetics Act, 1940 and its rules 1945:

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

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

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

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

UNIT-II

10 Hours

Drugs and Cosmetics Act, 1940 and its rules 1945.

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

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

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

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

UNIT-III

10 Hours

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



Penalties

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

UNIT-IV

08 Hours

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

UNIT-V

07 Hours

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

Recommended books: (Latest Edition)

1. Forensic Pharmacy by B. Suresh



BP606TPHARMACEUTICAL QUALITY ASSURANCE (Theory)

45 Hours

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

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

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

Course content:

UNIT – I

10 Hours

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

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

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

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

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

NABL accreditation : Principles and procedures

UNIT - II

10 Hours

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

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

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

UNIT – III

10 Hours

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



materials.

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

UNIT – IV

08 Hours

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

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

UNIT – V

07 Hours

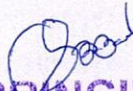
Calibration and Validation: Introduction, definition and general principles of calibration, qualification and validation, importance and scope of validation, types of validation, validation master plan. Calibration of pH meter, Qualification of UV-Visible spectrophotometer, General principles of Analytical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

Warehousing: Good warehousing practice, materials management

Recommended Books: (Latest Edition)

1. Quality Assurance Guide by organization of Pharmaceutical Products of India.
2. Good Laboratory Practice Regulations, 2nd Edition, Sandy Weinberg Vol. 69.
3. Quality Assurance of Pharmaceuticals- A compendium of Guide lines and Related materials Vol I WHO Publications.
4. A guide to Total Quality Management- Kushik Maitra and Sedhan K Ghosh
5. How to Practice GMP's – P P Sharma.
6. ISO 9000 and Total Quality Management – Sadhank G Ghosh
7. The International Pharmacopoeia – Vol I, II, III, IV- General Methods of Analysis and Quality specification for Pharmaceutical Substances, Excipients and Dosage forms
8. Good laboratory Practices – Marcel Deckker Series
9. ICH guidelines, ISO 9000 and 14000 guidelines




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BP 703T. PHARMACY PRACTICE (Theory)

45 Hours

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

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

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

Unit I:

10 Hours

a) Hospital and its organization

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

b) Hospital pharmacy and its organization

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

c) Adverse drug reaction

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



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

d) Community Pharmacy

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

Unit II:

10 Hours

a) Drug distribution system in a hospital

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

b) Hospital formulary

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

c) Therapeutic drug monitoring

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

d) Medication adherence

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

e) Patient medication history interview

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

f) Community pharmacy management

Financial, materials, staff, and infrastructure requirements.

Unit III:

10 Hours

a) Pharmacy and therapeutic committee

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

b)

information services

Drug



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

c) Patient counseling

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

d) Education and training program in the hospital

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

e) Prescribed medication order and communication skills

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

Unit IV 8 Hours

a) Budget preparation and implementation

Budget preparation and implementation

b) Clinical Pharmacy

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

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

c) Over the counter (OTC) sales

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

Unit V 7 Hours

a) Drug store management and inventory control

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

b) Investigational use of drugs



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

c) Interpretation of Clinical Laboratory Tests

Blood chemistry, hematology, and urinalysis

Recommended Books (Latest Edition):

1. Merchant S.H. and Dr. J.S.Quadry. *A textbook of hospital pharmacy*, 4th ed. Ahmadabad: B.S. Shah Prakakshan; 2001.
2. Parthasarathi G, Karin Nyfort-Hansen, Milap C Nahata. *A textbook of Clinical Pharmacy Practice- essential concepts and skills*, 1st ed. Chennai: Orient Longman Private Limited; 2004.
3. William E. Hassan. *Hospital pharmacy*, 5th ed. Philadelphia: Lea & Febiger; 1986.
4. Tipnis Bajaj. *Hospital Pharmacy*, 1st ed. Maharashtra: Career Publications; 2008.
5. Scott LT. *Basic skills in interpreting laboratory data*, 4th ed. American Society of Health System Pharmacists Inc; 2009.
6. Parmar N.S. *Health Education and Community Pharmacy*, 18th ed. India: CBS Publishers & Distributers; 2008.

Journals:

1. Therapeutic drug monitoring. ISSN: 0163-4356
2. Journal of pharmacy practice. ISSN : 0974-8326
3. American journal of health system pharmacy. ISSN: 1535-2900 (online)
4. Pharmacy times (Monthly magazine)




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BP 802T SOCIAL AND PREVENTIVE PHARMACY

Hours: 45

Scope:

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

Objectives:

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

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

Course content:

Unit I:

10 Hours

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

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

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

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

Unit II:

10 Hours

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

Unit III:

10 Hours

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



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

Unit IV:

08 Hours

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

Unit V:

07 Hours

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

Recommended Books (Latest edition):

1. Short Textbook of Preventive and Social Medicine, Prabhakara GN, 2nd Edition, 2010, ISBN: 9789380704104, JAYPEE Publications
2. Textbook of Preventive and Social Medicine (Mahajan and Gupta), Edited by Roy Rabindra Nath, Saha Indranil, 4th Edition, 2013, ISBN: 9789350901878, JAYPEE Publications
3. Review of Preventive and Social Medicine (Including Biostatistics), Jain Vivek, 6th Edition, 2014, ISBN: 9789351522331, JAYPEE Publications
4. Essentials of Community Medicine—A Practical Approach, Hiremath Lalita D, Hiremath Dhananjaya A, 2nd Edition, 2012, ISBN: 9789350250440, JAYPEE Publications
5. Park Textbook of Preventive and Social Medicine, K Park, 21st Edition, 2011, ISBN-14: 9788190128285, BANARSIDAS BHANOT PUBLISHERS.
6. Community Pharmacy Practice, Ramesh Adepu, BSP publishers, Hyderabad

Recommended Journals:

1. Research in Social and Administrative Pharmacy, Elsevier, Ireland




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BP803ET. PHARMA MARKETING MANAGEMENT (Theory)

45 Hours

Scope:

The pharmaceutical industry not only needs highly qualified researchers, chemists and, technical people, but also requires skilled managers who can take the industry forward by managing and taking the complex decisions which are imperative for the growth of the industry. The Knowledge and Know-how of marketing management groom the people for taking a challenging role in Sales and Product management.

Course Objective: The course aims to provide an understanding of marketing concepts and techniques and their applications in the pharmaceutical industry.

Unit I

10 Hours

Marketing:

Definition, general concepts and scope of marketing; Distinction between marketing & selling; Marketing environment; Industry and competitive analysis; Analyzing consumer buying behavior; industrial buying behavior.

Pharmaceutical market:

Quantitative and qualitative aspects; size and composition of the market; demographic descriptions and socio-psychological characteristics of the consumer; market segmentation & targeting. Consumer profile; Motivation and prescribing habits of the physician; patients' choice of physician and retail pharmacist. Analyzing the Market; Role of market research.

Unit II

10 Hours

Product decision:

Classification, product line and product mix decisions, product life cycle, product portfolio analysis; product positioning; New product decisions; Product branding, packaging and labeling decisions, Product management in pharmaceutical industry.

Unit III

10 Hours

Promotion:

Methods, determinants of promotional mix, promotional budget; An overview of personal selling, advertising, direct mail, journals, sampling, retailing, medical exhibition, public relations, online promotional techniques for OTC Products.



Unit IV

10 Hours

Pharmaceutical marketing channels:

Designing channel, channel members, selecting the appropriate channel, conflict in channels, physical distribution management: Strategic importance, tasks in physical distribution management.

Professional sales representative (PSR):

Duties of PSR, purpose of detailing, selection and training, supervising, norms for customer calls, motivating, evaluating, compensation and future prospects of the PSR.

Unit V

10 Hours

Pricing:

Meaning, importance, objectives, determinants of price; pricing methods and strategies, issues in price management in pharmaceutical industry. An overview of DPCO (Drug Price Control Order) and NPPA (National Pharmaceutical Pricing Authority).

Emerging concepts in marketing:

Vertical & Horizontal Marketing; Rural Marketing; Consumerism; Industrial Marketing; Global Marketing.

Recommended Books: (Latest Editions)

1. Philip Kotler and Kevin Lane Keller: Marketing Management, Prentice Hall of India, New Delhi
2. Walker, Boyd and Larreche : Marketing Strategy- Planning and Implementation, Tata MC GrawHill, New Delhi.
3. Dhruv Grewal and Michael Levy: Marketing, Tata MC Graw Hill
4. Arun Kumar and N Menakshi: Marketing Management, Vikas Publishing, India
5. Rajan Saxena: Marketing Management; Tata MC Graw-Hill (India Edition)
6. Ramaswamy, U.S & Nanakamari, S: Marketing Management: Global Perspective, Indian Context, Macmillan India, New Delhi.
7. Shanker, Ravi: Service Marketing, Excell Books, New Delhi
8. Subba Rao Changanti, Pharmaceutical Marketing in India (GIFT – Excel series) Excel Publications.



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T115 Hospital and Community Pharmacy
Duration: 3Hrs/week

Section -I	
TOPICS	Hrs.
1) Hospitals- Classification, functions, Organization administration governing body and management, medical staff, clinical departments, support service, dietetic service, nursing service, medical records department, pathology service, Blood bank, radiology, medical social service departments, anesthesia service, Central service department, Hospital contractual relations, contract management, Health maintenance Organization.	04
2) Hospital Pharmacy: History and Development	01
3) Duties and Responsibilities of Hospital Pharmacist	02
4) Pharmacy and Therapeutic Committee: Purpose of committee, committee name, membership, frequency of meeting, the committee agenda, functions of the committee, Generic vs. brand named drugs, Evaluation of drugs, Recommended reference materials, recommendations, committees role in the adverse drug reaction program, Drug experience reporting, Automatic stop order for dangerous drugs, committees role in developing emergency drug list.	05
5) Hospital Formulary: Format and appearance of the formulary, distribution of the formulary, keeping the formulary current, use of non-formulary drugs, (PPI), the legal basis of the formulary system, Anti substitution laws and the formulary, preparation of the formulary, formulary vs. Drug catalogue or list, selection of guiding for admission or deletion of drug , contains , prescription writing ,format, size , loose -leaf vs. bound , publication , formulary drug listing service formulary drug listing service preparation , categorizing and indexing , sample pharmacologic index , text, specialty formularies.	05
6) Organization and Personnel: Pharmacy specialist , drug information specialists, pharmacy education, job Descriptions, Determining the departmental staffs-professional , departmental staffs-lay personal, ofessional service s Rendered, Charting of pharmacy organization, personal in organized health care setting , control of personnel , Hiring of pharmacists , women in pharmacy, Salaries,	05
Section II	
7) Purchasing procedure and Inventory control: Procurement: Drug selection , purchasing authority, responsibility and control , role of purchasing agent in drug procurement , role of pharmacist in drug procurement, purchasing procedure , control on purchases, quality of drug , Discounts , central storage vs. pharmacy storage , storeroom arrangement , shelf stripping and floor- marking , marking of merchandise, control of dated or perishable inventory , taking of physical inventory , the perpetual inventory , material management.	03
8) Dispensing of Controlled Substances: Comprehensive Drug abuse prevention and control Act of 1970, authority of control , schedules for controlled substances, Registration Requirements , registration Exemption for hospital house staff, separate registration for independent activities, separate registrations for separate location , exemption of agent and employees, Times for application for registration , expiration of registration , application forms , modification in registration , inventory requirements, perceptions ,offenses and penalties, labeling and packaging requirements, model sets of hospital controlled sustenance's regulations, Miscellaneous regulations , control of narcotics by nurses , narcotics delivery to nursing station , protocol for reporting drug abuse or diversion , other systems, specials uses.	04
9) Techniques in radio pharmacy and clinical applications of radiopharmaceuticals: Introduction to particulate radiation, half life, therapeutic and diagnostic radiopharmaceuticals, facilities required, protection of operators, preparation of radiopharmaceuticals kits.	02
10) Use of Computers in Hospital: Terminology, program criteria, managing computers systems development ASHP technical assistant bulletin on hospital Drug Distribution and control, Impact of the computer on dispensing time, model computer regulations.	02
11) Pharmacist and community pharmacy	01
12) Community health care concepts, levels and systems. Health policy, health team, health promotion, education and rehabilitation, public health.	03
13) Health program in India:- National health programs- AIDS, Tuberculosis and child health.	03
14) Practice of patient education and counseling:- Objectives, methods, qualities for successful counseling, barriers and outcome of patient counseling, barriers and outcome of patient counseling, medical compliance and patient information leaflets-content, design and layouts, advisory labels.	04
Total no. of lectures	22
otal Hrs:	45

Books Recommended:

Merchant & Qadry , **Text book of Hospital Pharmacy - (B.S. Shah Prakashan)**

Hassan , **Hospital Pharmacy (Lea and Febiger)**



Parmar N S, Health education and Community Pharmacy
WHO consultative group report
Robin J Harman, Hand book of Pharmacy (The Pharmaceutical Press)
Winfield, Richards-- Pharmaceutical Practice

T245 Unit Operation-I (Theory)

TOPICS	Hrs.
1) Fluid flow: Fluid status, mechanism of fluid flow, Bernoulli's theorem, fluid heads, fluid handling	04
2) Handling and Conveying: Solids: portable power driven machines, trucks, trailers, power shovels, gantry cranes. Permanent installations for handling solids, conveyors-belt, chain, screw and pneumatic conveyors. Fluids: pumps, pipes and fittings, valves, pipe connections. Application in pharmacy e.g. In water management and handling of liquid dosage forms.	05
3) Boilers: Main parts, mountings and accessories- industrial boilers including cochams, babcock Wilcox and Lancashire.	04
4) Material Technology: Corrosion: Mechanism of corrosion, types of corrosion and ageing, factors influencing corrosion and method of combating corrosion. Material of Construction: Classification in to metals and nonmetals. Ferrous and nonferrous metals. Ferrous- cast iron, mild steel, stainless steel. Nonferrous- copper & alloys, nickel alloys, aluminium. Nonmetals: glass & plastic, types of plastics. Polyvinyl chloride, polystyrene, polyethylene, polypropylene, nylon, polyester, epoxy, polycarbonate, uses of materials of construction in the design of Pharma packaging.	07
5) Fluidization: Theory of Fluidization, Application of fluidization in pharmacy in the areas of powder handling, agglomeration, drying and coating.	03

SECTION-II

1) Water purification:- Deionization, reverse osmosis and distillation processes and large scale for mfg.	05
2) Environmental control:- air handling , air conditioning ,refrigeration , water vapour - air mixture ,humidity and particulates in air refrigeration , application of environmental control in pharma department like powder , Tablets and capsules.	06
3) Measurements :- a) Pressure: - Classification & description of various pressure measuring devices. b) Temperature: - Various direct & indirect (remote) methods use mechanical & electrical principles	04
4) Maintenance: Objective, prevention and corrective maintenance, Maintenance record keeping, Maintenance of machineries and equipments in pharmaceutical department such as- mills, micropulvirizer, sifters, mixers, homogenizers, granulators, compression equipments , coating equipments, packaging equipments, balances, pH meter.	04
5) Safety :- Hazards & their classification - mechanical, fire, chemical & occupational, their types & prevention, fire & explosion - Chemistry of fire, classification of fire, method of extinguishing accidents - unsafe actions, unsafe conditions, financial losses, costs prevention. Accidents safety training & education.	03

Total Hours: 45

Books Recommended

- 1) **K. Sambamurthy--** Pharmaceutical Engineering, New Age International Pvt. Ltd.
- 2) **W.L.Badger & J. T. Banthero--** Introduction to Chemical Engineering.
- 3) **David Ganderton.** --- Unit Process in Pharmacy, Medical Books Ltd. London
- 4) **G.G. Brown---** Unit Operations.
- 5) **Robbert H. Perry, Don W, Green.--**Perry's Chemical Engineering Hand Book, 7th edition, International Edition, McGraw Hill
- 6) **B.H. Deshamukh., P. V. Mondke.--**Elements of Mechanical & Electrical Technology, Nirali Publications
- 7) **N. D. Bhat---**Machine Drawing, Character Book Stall, Tulsi Sadan, Anand.
- 8) **N.G.Padya., C.S.Shaha---** Elements of Heat Engines, Charotar Book Stall, Tulsi Sadan, Anand (W. Rly), India.
- 9) **Donald P. Eckman ---** Industrial Instrumentation , Seventh Wiley Eastern, Reprint, 1983, Wiley Eastern Ltd, 4835/24, Ansari Road, Daryaganj, New Delhi 110 002.




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	procedures	
7	Medicinal and Toilet Preparation (Excise Duties) Act 1955 , and Rules 1956 Definition ;Bonded Manufactory ; Non-bonded manufactory	04
8	The Industries (Development And Regulations) Act,1952 Aim and salient features of act	02
9	Drug Price control Order 1995 Historical background ; essential commodities act ; relevant provisions ;; applicability to imported drugs and indigenously manufactured drugs; definition; prizes to Wholesale and retailer , Maximum allowable post manufacturing expenses MAP, Penal provision <u>Calculation of Retail price</u>	03
10	Consumer Protection Act ,1986 Definition; Consumer protection councils ; Consumer disputes redressal agencies	03
Total Hrs-		45

Books Recommended:

- 1 Drugs and Cosmetic Act and rules, 3rd Edition, by S.W. Deshpande and Nilesh Gandhi, Sumit Publishers, Mumabai,2004
- 2 Drugs and Cosmetic Act, 1940 by Vijay malik, Eastern Book Company, Lucknow, 2002
- 3 Text Book of Forensic Pharmacy by C.K. Kokate and S.B. Gokhale, Pharma Book Syndicate, 2006
- 4 Forensic Pharmacy, 4th Edition, by B. S. Kuchekar, A.M. Khadatare and S.C. Itkar, Nirali Prakashan, Pune,2004
- 5 Hand Book of Drug Laws, 10th Edition by M.L. Mehra, Universal Law Publishing Company, Delhi, 2005




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T476 Forensic Pharmacy (Theory)
(3hr/week)

Sr. no.	Topics	Hours
Section -I		
1	Pharmaceutical Legislation in India : A brief review	02
2.	Pharmacy Act – 1948 <ul style="list-style-type: none"> ▪ Pharmacy council of India : constitution, functions and power , ▪ Education regulation ; ▪ The central register of pharmacist ; Registration in central register 	05
3	Drug and Cosmetics Act ,1940 and Rules In 1945 <ul style="list-style-type: none"> ▪ Definition ▪ Drugs Technical Advisory board , Drug consultative committee central drug laboratory – composition and functions ▪ Import of Drugs and cosmetics ▪ Manufacturing, sales and distribution of drugs and cosmetics ▪ Prohibition relating to Ayurvedic , Siddha and Unani drugs 	11
4	Drug and magic remedies act 1954 Definition , official duties and penalties	05
Section-II		
5	Narcotic and Psychotropic Substance Act 1985 Historical background of opium act and dangerous drug act. Prohibition and penalties <i>under NDPS Act 1985</i>	05
6	Prevention of Food Adulteration Act 1954 And Rules 1955 <ul style="list-style-type: none"> ▪ Definition ▪ Central board of food standard ▪ Central food laboratory ▪ Composition and functions ▪ Public analyst –qualification duties ▪ Food inspector –qualification ,powers , duties ,sampling 	05




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T486 Pharmaceutical Management and Drug Regulatory Affairs (Theory)
3 hrs / week

Sr.no.	Topic	Hours
Section -I		
1	Introduction to Management Types of management Basic concepts of management Management process , function and principles Levels of management Pharmaceutical Management –Art , science or profession Social responsibilities of management Functions of management	04
2	Planning , and Forecasting Planning Nature ,process and types of planning Steps in planning process Planning premises Advantages and limitations of planning Management by Objective Meaning ,objective ,features , advantages and limitations Forecasting Meaning , nature importance limitations Techniques of forecasting	06
3	Organization Definition , nature , Theories , functions Line and staff organization concepts	04
4	Communication Nature, Types of communication Process, channels and barriers of communication Importance in pharmaceutical industries Limitations of communications	04
5	Marketing research , New product selection , product management , advertising	04
Section –II		
6	Leadership and Motivation Leadership Meaning, nature , leadership styles , theories of leadership Motivation Meaning, nature , importance , theories of motivation	05
7	Human Resource and Development (HRD) Definition , HRD methods , HRD process , HRD in Indian industry	03
8	GATT ((General Agreement on Tariff and Trade) and its impact on pharmaceutical industry: GATT History of GATT, Its impact on pharmaceutical industry, Pharmaceutical market in India	05
9	World Trade Organization (WTO) and Trade Related Intellectual Property Rights (TRIPS) Introduction to WTO Types of intellectual property rights: Industrial property and copy rights	05




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	Indian Patent Acts, 1970 with amendment -2002 Definition , types of patents	
10	Standard Institutions and Regulatory Authorities Bureau of Indian standards (BIS) International Organization for Standardization (ISO). United States of Food and Drug Administration (USFDA) Central Drug Standard Control Organization (CDSCO) International Conference on Harmonization (ICH); World Health Organization (WHO)	05
	Total number of lectures	45

Books Recommended:

- 1) Management a Global Perspective by Heinz Weihrich and Harold Koontz; 10th edition; Mc Graw Hills, New Jersey 1994.
- 2) Management Theory and Practice by C.B. Gupta ; 9th edition ; Sultan Chand and Sons Educational publishers , New Delhi 2006.
- 3) What every one should know about patents? by N. Subbaram ; 2nd edition Pharma Book syndicate , Hyderabad 2003
- 4) Human Resource management A contemporary Perspective by Ian Beardwell , len Holden ,1st edition Mac Millan Indian Ltd New Delhi 2001
- 5) Forensic Pharmacy by B.S. Kuchekar et.al; Nirali Prakashan, Pune 4th edition 2004.



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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
Submitted to
The Principal,

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

Name of Activity	Voter Awareness Programme
Organizer	H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur
Venue	Shirpur
Name of Speaker With contact details	-
Date of activity	17 February 2023
Objectives	a Voter Awareness Programme can contribute to increasing voter participation, promoting informed decision-making, and strengthening democracy.
In charge	N. S. S. Coordinator Prof. Ketan Patil, Assistant Program Officer Rajeshree Dhole
Number of Participant	
Brief Report on activity	<p>At HRPIPER, the establishment of the "Electoral Literacy Board" under the National Service Scheme at the College of Pharmaceutical Sciences, Shirpur, marks a significant step towards creating awareness and promoting the value of the "right to vote" among college students. The primary objective behind setting up this board is to educate and inform students about the significance of voting and elections in our democratic system. On 17th February 2023, a Friday, the Election Literacy Board organized an enlightening awareness lecture titled "Importance of Electoral Literacy for a Strong Democracy" at Patel Hall, Shirpur. The event was graced by the presence of Honorable Mr. Abasaheb Mahajan, the Tehsildar of Shirpur Municipal Corporation. With immense knowledge and experience, Mr. Mahajan delivered a thought-provoking lecture, emphasizing the vital role of an informed voter in shaping the country's future. During his speech, Mr. Mahajan highlighted that the right to vote is enshrined as a fundamental right in the Constitution. He underscored that voting symbolizes freedom and democracy, playing a crucial</p>

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role in upholding fairness, justice, and the safety of society. His words resonated with the attendees, inspiring them to recognize the power they possess as voters to contribute to a better nation. Furthermore, Honorable Mr. Deepak Patil, the Voter Center Level Officer, provided guidance to the students regarding the registration process for the voter list. He also demonstrated the procedure for linking mobile numbers to Aadhaar cards and voter cards, simplifying the access and participation of students in the electoral process. The presence of Election Naib Tehsildar, Mr. R. P. Kumawat, and Revenue Assistant, Mr. Pradeep Pardeshi, further enriched the lecture, enhancing the overall learning experience for the attendees. The awareness lecture organized by the Election Literacy Board at HRPIPER served as a platform to empower students with knowledge and understanding of their electoral rights and responsibilities. By facilitating the registration process and offering valuable insights, the event encouraged active participation and engagement of students in the democratic process, ensuring a brighter future for our nation.

**Photograph
Of activity**



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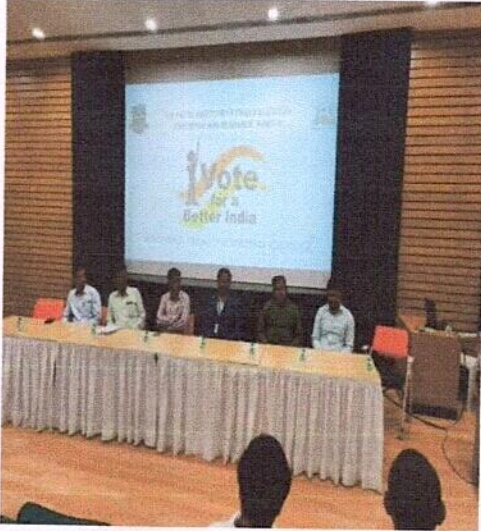
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Outcome	<p>The Voter Day Celebration was a success in terms of raising voter awareness, encouraging active involvement in the political process, and emphasizing the importance of democracy. The event encouraged residents to utilise their voting rights and instilled a sense of responsibility for the democratic system. We believe that the event had a beneficial impact on the attendees and will help to reinforce democratic principles in our society.</p>




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Activity report
Submitted to
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Name of Activity	Republic Day
Organizer	H. R. Patel Institute of pharmaceutical Education and Research Shirpur.
Venue	HRPIPER
Name of Speaker With contact details	Dr. S. J. Surana
Date of activity	26 January 2023
Objectives	To celebrate the republic day by flag hosting by our Hon. Chief guest.
In charge	Mr. Y. B. Thakur
Number of Participant	Students and faculty 150
Brief Report on activity	H. R. Patel Institute of pharmaceutical Education and Research Shirpur. celebrated Republic day by on college clamps ground. The staff from all faculties were present with the NCC cadets far the flag hosting. The flag was hosted by Hon. Chief guest with the National Anthem "Jana Gana Mana" with the salutes of all present personnel's.
Photograph Of activity	
Outcome	Student and faculty were made aware about the importance of importance of Republic day




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Name of Activity	Republic Day
Organizer	H. R. Patel Institute of pharmaceutical Education and Research Shirpur.
Venue	HRPIPER
Name of Speaker With contact details	Dr. S. J. Surana
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Objectives	To celebrate the republic day by flag hosting by our Hon. Chief guest.
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Number of Participant	Students and faculty
Brief Report on activity	H. R. Patel Institute of pharmaceutical Education and Research Shirpur. celebrated Republic day by on college clamps ground. The staff from all faculties were present with the NCC cadets far the flag hosting. The flag was hosted by Hon. Chief guest with the National Anthem "Jana Gana Mana" with the salutes of all present personnel's.
Photograph Of activity	
Outcome	Student and faculty were made aware about the importance of importance of Republic day




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Name of Activity	National Voters Day celebration
Organizer	H. R. Patel Institute of pharmaceutical Education and Research Shirpur.
Venue	HRPIPER
Name of Speaker With contact details	Mrs. Pornima Pathak
Date of activity	25th January 2022
Objectives	To promote, make possible, and maximum enrichment, particularly for new voters.
In charge	Dr. Swati Deshmukh ,Ms. Nalini More ,Mr. Dipak Patil
Number of Participant	70
Brief Report on activity	National Service scheme of HRPIPER, Celebrate National Voters day on 25.01.2022. On this occasions various competitions were organize like Rangoli competition and Elocution competition. Dr. S. B. Bari Sir was the chairperson of this program, and Mrs. Pornima Pathak Madam was the Main guest. Many students of First year, second year B. pharm and M. pharm were taken part in Rangoli competition. Starting of program was done with inauguration of Rangoli by Mrs. Pornima Pathak Madam and Dr. S. B. Bari Sir. Evaluation of Rangoli was done by madam and chooses two winners of competition.Total 22 students were participated in competition. Guest felicitation was done and madam addresses the students on many parts like "say no to plastic", "Importance of tree plantation", "Use of cotton sanitary napkins", etc. After her valuable guidance elocution competition starts total 7 students participated in this and 3 were winners. At last Oath on Voters day were taken and program ended with National Anthem. For the succesfull completion of program, Mrs. Swati Deshmukh Program officer NSS, Mr. Zamir Khan Student Development Officer, Ms. Nalini More, Mr. Dipak Patil, Mr. Narayan Pawar NSS Coordinator, and MR. Yogesh Thakur Sports Incharge, were taken efforts.

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<p>Photograph Of activity</p>	
<p>Outcome</p>	<p>There has been an upsurge in promoting informed voting and raising voter awareness among new voters.</p>




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Name of Activity	Teacher's Day
Organizer	H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur
Venue	HRPIPER, Library
Name of Speaker With contact details	-
Date of activity	05 Sept 2021
Objectives	To celebrate birthday of Dr. Sarvepalli Radha krishnan as teacher day.
In charge	Dr. D. A. Patil, Ms. S. P. Deshmukh
Number of Participant	Faculty & Students: 60
Brief Report on activity	On the day of the birthdate of the former president Dr. Sarvepalli Radha Krishnan, a teacher by profession, National Teacher Day is observed. All students are respectfully expressing their concerns to all teachers today. To recognize the role of teachers in education and society, teacher's day was celebrated by our students on 05th September 2021.
Photograph Of activity	

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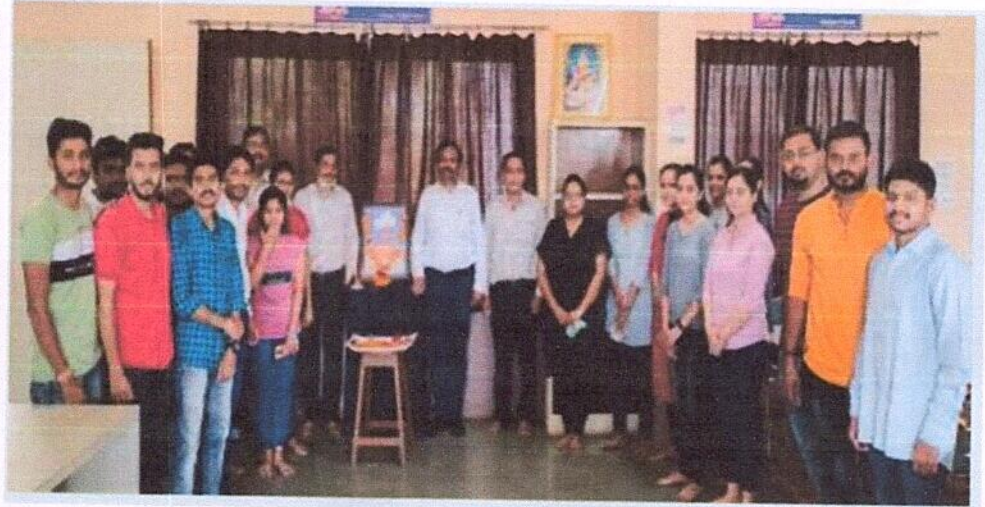
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Outcome

Through this programme, teachers and students build strong bonds.




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Submitted to
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Name of Activity	Independence Day
Organizer	H. R. Patel Institute of pharmaceutical Education and Research Shirpur.
Venue	HRPIPER
Name of Speaker With contact details	Dr. S. J. Surana
Date of activity	15 August 2021
Objectives	Independence Day promotes nationalism and patriotism towards the nation
In charge	Mr. Y. B. Thakur
Number of Participant	Students and faculty 60
Brief Report on activity	Independence day celebration flag hosting by the guest Hon president Dr. S. J. Surana. We all sang our national anthem with great pride and patriotism. After the national anthem ended our chief guest gave a brief speech on how we are the future of our nation and we should be responsible for our behavior and what dc to make cur country proud.
Photograph Of activity	
Outcome	Student and faculty were made aware about the importance of importance of Independence day.




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Name of Activity	Rashtriya Ekta Diwas celebration
Organizer	H. R. Patel Institute of pharmaceutical Education and Research Shirpur.
Venue	HRPIPER, Classroom
Name of Speaker With contact details	-
Date of activity	31st October, 2020
Objectives	On account of Birth Anniversary of Late Sardar Vallabh Bhai Patel
In charge	Mr. V. H. Patel/ Mr. Zamir G. Khan
Number of Participant	70
Brief Report on activity	Department of Library, and student development department, H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur, Dist. Dhule Maharashtra. has been arranged on account of Birth Anniversary of Late Sardar Vallabh Bhai Patel to introduce of Sardar Patel Biography, and his service for freedom movement in India on 31st October 2020, birth day of Sardar Vallabh Bhai Patel which was celebrated as a "Rashtriya Ekta Din" on the same day Principal, Librarian and all staff members paid homage to Sardar Vallabh Bhai Patel on his Birth anniversary.
Photograph Of activity	

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एच.आर. पटेल फार्मसीमध्ये लोहपुरुष सरदार वल्लभभाई पटेल यांच्या जयंती दिनी राष्ट्रीय एकता दिवस साजरा

शिरपुर : येथील एच. आर. पटेल फार्मसी महाविद्यालयात लोहपुरुष सरदार वल्लभभाई पटेल यांच्या जयंती निमित्ताने त्यांच्या प्रतिमेचे पूजन करून राष्ट्रीय एकता दिवस उत्साहात साजरा करण्यात आला. या वेळी कार्यक्रमाच्या अध्यक्षस्थानी महाविद्यालयाचे प्राचार्य डॉ. एस.बी.बारी उपस्थित होते. प्राचार्य डॉ. बारी यांनी सरदार वल्लभभाई पटेल यांचे स्वतंत्र लढाईत



दिलेल्या मोलाचे योगदान सांगत राष्ट्रीय एकतेचे महत्त्व विषय केले. महाविद्यालयाचे सर्व प्राध्यापक व प्राध्यापके तर कर्मचारी

उपस्थित होते. सत्रसंचालन क्रीडा प्रशिक्षक प्रा. योगेश ठाकूर यांनी केले. आभार प्रा. डॉ. राकेश मुधा यांनी मानले. कार्यक्रम

यशस्वीतेसाठी गंधपाल विनांद पटेल, कपिल धनगर, राकेश पाटील, मंगेश माळी यांनी संयोजन केले.

Outcome

By celebrating National Unity Day, the students realized the importance of unity.




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Name of Activity	Republic Day
Organizer	H. R. Patel Institute of pharmaceutical Education and Research Shirpur.
Venue	HRPIPER
Name of Speaker With contact details	Dr. S. J. Surana
Date of activity	26 January 2020
Objectives	To celebrate the republic day by flag hosting by our Hon. Chief guest.
In charge	Mr. Y. B. Thakur
Number of Participant	Students and faculty
Brief Report on activity	H. R. Patel Institute of pharmaceutical Education and Research Shirpur. celebrated Republic day by on college campus ground. The staff from all faculties were present with the NCC cadets for the flag hosting. The flag was hosted by Hon. Chief guest with the National Anthem "Jana Gana Mana" with the salutes of all present personnel's.
Photograph Of activity	
Outcome	Student and faculty were made aware about the importance of importance of Republic day




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Name of Activity	National Voters Day celebration
Organizer	H. R. Patel Institute of pharmaceutical Education and Research Shirpur.
Venue	HRPIPER
Name of Speaker With contact details	-
Date of activity	25th January 2020
Objectives	To promote, make possible, and maximum enrichment, particularly for new voters.
In charge	Dr. Z. G. Khan
Number of Participant	100
Brief Report on activity	In order to encourage more young voters to take part in the political process, Government of India has decided to celebrate January 25 every year as "National Voters' Day". It has been started from January 25, 2011 to mark Commission's foundation day. We celebrated the event by taking oath, rally and by participation in poster presentation competition of national voters' day.
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Photograph
Of activity



Outcome

There has been an upsurge in promoting informed voting and raising voter awareness among new voters.




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Activity report
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Name of Activity	World Pharmacist's Day
Organizer	H. R. Patel Institute of pharmaceutical Education and Research Shirpur.
Venue	HRPIPER, Library
Name of Speaker With contact details	-
Date of activity	25 th September 2019
Objectives	To celebrate Pharmacist's Day
In charge	Dr. Z. G. Khan and Mr. P. B. Patil
Number of Participant	Students and faculty-50
Brief Report on activity	On the occasion of world pharmacist day Rx Technical Poster Presentation Competition 2019 was organized on 25th September 2019 (Wednesday); 114 participants were participated for the event and got cash prizes for winners as Rs. 1100 /-, 751 /- and 501 /- for First, Second and Third Winner respectively.
Photograph Of activity	

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Outcome	Student and faculty take pharmacists oath and aware about their role as pharmacist.



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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	Independence Day
Organizer	H. R. Patel Institute of pharmaceutical Education and Research Shirpur.
Venue	HRPIPER
Name of Speaker With contact details	Dr. S. J. Surana
Date of activity	15 August 2019
Objectives	Independence Day promotes nationalism and patriotism towards the nation
In charge	Mr. Y. B. Thakur
Number of Participant	Students and faculty
Brief Report on activity	Independence day celebration flag hosting by the guest Hon president Dr. S. J. Surana. We all sang our national anthem with great pride and patriotism. After the national anthem ended our chief guest gave a brief speech on how we are the future of our nation and we should be responsible for our behavior and what do to make our country proud.
Photograph Of activity	
Outcome	Student and faculty were made aware about the importance of importance of Independence day.




Prof. Dr. S. B. Bari

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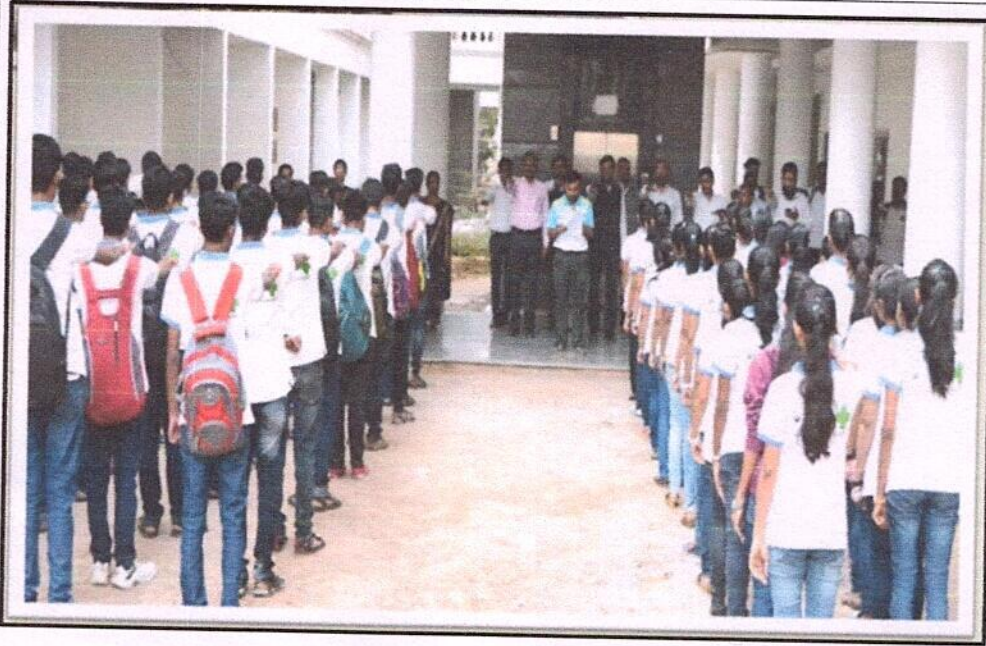
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Name of Activity	National Voters Day celebration
Organizer	H. R. Patel Institute of pharmaceutical Education and Research Shirpur.
Venue	HRPIPER
Name of Speaker With contact details	-
Date of activity	25th January 2019
Objectives	To promote, make possible, and maximum enrichment, particularly for new voters.
In charge	Dr. L. R. Zawar & Ms. P. H. Patil
Number of Participant	70
Brief Report on activity	In order to encourage more young voters to take part in the political process, Government of India has decided to celebrate January 25 every year as "National Voters' Day". It has been started from January 25, 2011 to mark Commission's foundation day. We celebrated the event by taking oath of national voters' day
Photograph Of activity	



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Photograph
Of activity

एच.आर.पटेल फार्मसीत मतदार दिन



शिरपूर : शिरपूर एज्युकेशन सोसायटी संचालित एच.आर.पटेल फार्मसी महाविद्यालयात राष्ट्रीय मतदार दिनानिमित्त कार्यक्रम झाला. प्रास्ताविक विद्यार्थी विकास अधिकारी प्रा. झेड. जी. खान यांनी केले. प्राचार्य डॉ. एस.बी. बारी यांनी मार्गदर्शन केले.

Outcome

There has been an upsurge in promoting informed voting and raising voter awareness among new voters.



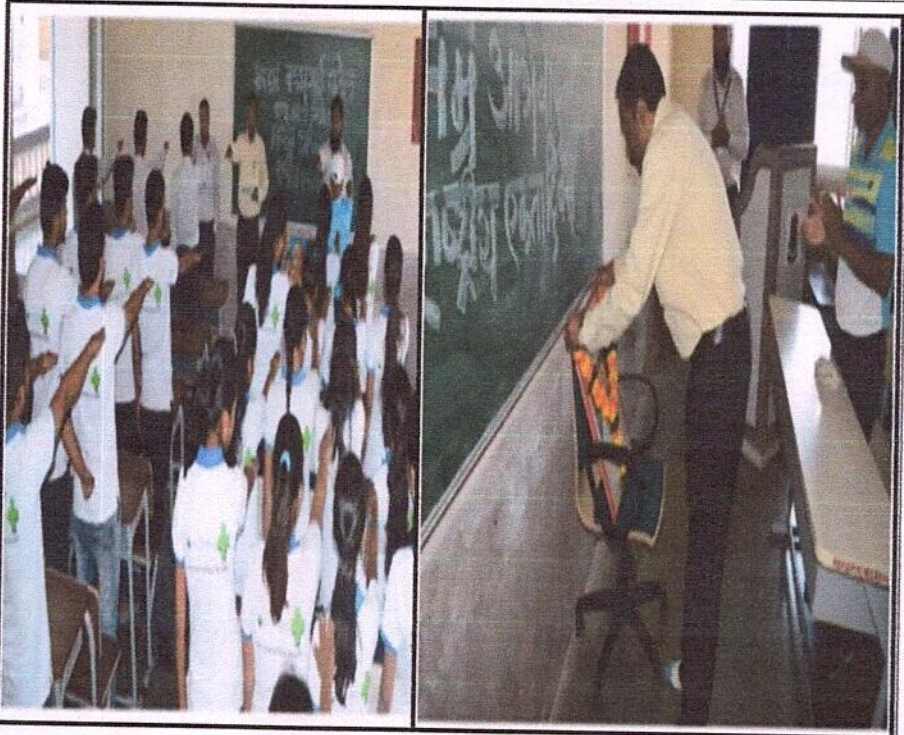
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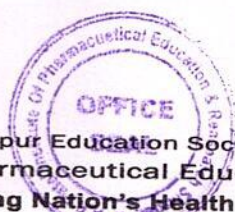


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Activity report
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Name of Activity	Rashtriya Ekta Diwas celebration
Organizer	H. R. Patel Institute of pharmaceutical Education and Research Shirpur.
Venue	HRPIPER, Classroom
Name of Speaker With contact details	-
Date of activity	31st October 2018
Objectives	On account of Birth Anniversary of Late Sardar Vallabh Bhai Patel
In charge	Dr. L. R. Zavar & Ms. P. H. Patil
Number of Participant	60
Brief Report on activity	National Unity Day was introduced by the Government of India and inaugurated by Indian Prime Minister Narendra Modi in 2014. The intent is to pay tribute to Vallabhbhai Patel, who was instrumental in keeping India united. It is to be celebrated on 31 October every year as an annual commemoration of the birthday of the Iron Man of India Sardar Vallabhbhai Patel, one of the founding leaders of Republic of India.
Photograph Of activity	



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एच.आर.पटेल फार्मसीत राष्ट्रीय एकता दिवस साजरा

शिरपूर : एच. आर. पटेल औषधनिर्माणशास्त्र महाविद्यालयात कवयित्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ, जळगाव यांच्या मार्गदर्शनाने सरदार वल्लभभाई पटेल यांच्या जयंतीनिमित्त राष्ट्रीय एकता दिवस साजरा करण्यात आला.

कार्यक्रमाचे उद्घाटन महाविद्यालयाचे प्राचार्य डॉ. एस. बी. बारी यांच्या हस्ते झाले. ते म्हणाले की, सरदार वल्लभभाई पटेल यांचे योगदान प्रेरणादायी आहे. राष्ट्रीय एकात्मतेसाठी सर्वांनी संघटीत होणे काळाची गरज आहे. राष्ट्राच्या उन्नतीसाठी प्रत्येकाने प्रयत्नशील असावे, असे सांगितले. देशाची एकता, अखंडता व



सुरक्षितता राखण्यासाठी स्वतःला समर्पित करण्याची शपथ उपस्थितांना देण्यात आली. विद्यार्थी विकास अधिकारी प्रा. झेड. जी. खान, क्रीडा समन्वयक प्रा. वाय. बी. ठाकूर यांनी परिश्रम घेतले. कार्यक्रमाच्या आयोजनाबद्दल संस्थेचे अध्यक्ष आ. अमरिशभाई पटेल, नगराध्यक्ष

जयश्रीवेन पटेल, संस्थेचे कार्याध्यक्ष तथा उपनगराध्यक्ष भूपेशभाई पटेल, संस्थेचे उपाध्यक्ष राजगोपाल भंडारी, नगरसेवक तपनभाई पटेल, सचिव प्रभाकरराव चव्हाण, माजी कुलगुरु डॉ. के. बी. पाटील, प्राचार्य डॉ. एस. बी. बारी यांनी कौतुक केले.

Outcome

By celebrating National Unity Day, the students realized the importance of unity.




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Activity report
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Name of Activity	World Pharmacist's Day
Organizer	H. R. Patel Institute of pharmaceutical Education and Research Shirpur.
Venue	HRPIPER, Library
Name of Speaker With contact details	-
Date of activity	25th September 2018
Objectives	To celebrate Pharmacist's Day
In charge	Dr. L. R. Zawar & Ms. P. H. Patil
Number of Participant	Students and faculty -100
Brief Report on activity	On the occasion of world pharmacist day Rx Technical Poster Presentation Competition 2018 was organized on 25th September 2018 (Tuesday); 52 participants were participated for the event and got cash prizes for winners as Rs. 2100 /-, 1100 /- and 500 /- for First, Second and Third Winner respectively.
Photograph Of activity	

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Outcome	Student and faculty take phamacists oath and aware about their role as pharmacist.




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Name of Activity	Teacher's Day
Organizer	H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur
Venue	HRPIPER, Library
Name of Speaker With contact details	-
Date of activity	05th September 2018
Objectives	To celebrate birthday of Dr. Sarvepalli Radha krishnan as teacher day.
In charge	Dr. L. R. Zawar & Ms. P. H. Patil
Number of Participant	Faculty & Students: 60
Brief Report on activity	On the day of the birthdate of the former president Dr. Sarvepalli Radha Krishnan, a teacher by profession, National Teacher Day is observed. All students are respectfully expressing their concerns to all teachers today. To recognize the role of teachers in education and society, teacher's day was celebrated by our students on 05th September 2018.
Photograph Of activity	

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Outcome	Through this programme, teachers and students build strong bonds.




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