

Syllabus-2023-2024

BPharm

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|----------------------------|------------------------------|
| Title of the Course | Pharmaceutical Jurisprudence |
| Course Code | BP505T |

Part A

| Year | 3rd | Semester | 5th | Credits | L | T | P | C |
|--|--|----------|--------------------|-----------------------|--|---|---|---|
| | | | | | 3 | 1 | 0 | 4 |
| Course Type | Theory only | | | | | | | |
| Course Category | Discipline Core | | | | | | | |
| Pre-Requisite/s | | | | Co-Requisite/s | | | | |
| Course Outcomes & Bloom's Level | CO1- To recall the pharmaceutical legislations, ethics, right to information, medical termination of pregnancy and intellectual property rights(BL1-Remember) CO2- To relate the significance of Drugs and cosmetics act 1940 and its rules 1945 in relation to import and manufacture of drugs(BL2-Understand) CO3- To apply the knowledge on schedules pertaining to Drugs and cosmetics act 1940 and its rules 1945 and also administration of the act and rules(BL3-Apply) CO4- To understand the functions of pharmacy councils and implementation of education regulations in pharmacy(BL2-Understand) CO5- To appraise the importance of medicinal and toilet preparations act and narcotic drugs and psychotropic substances act and rules(BL5-Evaluate) | | | | | | | |
| Courses Elements | Skill Development ✓ Entrepreneurship X Employability X Professional Ethics ✓ Gender ✓ Human Values ✓ Environment X | | SDG (Goals) | | SDG3(Good health and well-being) SDG4(Quality education) SDG5(Gender equality) SDG10(Reduced inequalities) SDG12(Responsible consumption and production) | | | |

Part B

| Modules | Contents | Pedagogy | Hours |
|---------|---|--|-------|
| 1 | 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. | Lecture based learning, interactive class, Peer tutorial, Class using ICT tool/PPT/white board | 10 |
| 2. | 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 | Lecture based learning, interactive class, Peer tutorial, Class using ICT tool/PPT/white board | 10 |
| 3. | 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 | Lecture based learning, interactive class, Peer tutorial, Class using ICT tool/PPT/white board | 10 |
| 4 | 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) | Lecture based learning, interactive class, Peer tutorial, Class using ICT tool/PPT/white board | 8 |
| 5 | 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) | Lecture based learning, interactive class, Peer tutorial, Class using ICT tool/PPT/white board | 7 |

Part C

| Modules | Title | Indicative-ABCA/PBL/ Experiments/Field work/ Internships | Bloom's Level | Hours |
|---------|---|--|----------------|-------|
| 1 | visit of Wholesale, Retail sale and Restricted license. | Field work | BL2-Understand | 6 |

Part D(Marks Distribution)

| Theory | | | | | |
|-------------|-----------------------|---------------------|--------------------------|---------------------|--------------------------|
| Total Marks | Minimum Passing Marks | External Evaluation | Min. External Evaluation | Internal Evaluation | Min. Internal Evaluation |
| 100 | 50 | 75 | 38 | 25 | 13 |
| Practical | | | | | |
| Total Marks | Minimum Passing Marks | External Evaluation | Min. External Evaluation | Internal Evaluation | Min. Internal Evaluation |
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Part E

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|-------------------------|---|
| Books | 1. A text book of Forensic Pharmacy by N.K. Jain 2. Drugs and Cosmetics Act/Rules by Govt. of India publications. 3. Medicinal and Toilet preparations act 1955 by Govt. of India publications |
| Articles | https://www.iptsalipur.org/wp-content/uploads/2020/08/BP505T-PJ-UNIT_III.pdf |
| References Books | 1 Medicinal and Toilet preparations act 1955 by Govt. of India publications. 2. Narcotic drugs and psychotropic substances act by Govt. of India publications 3. Drugs and Magic Remedies act by Govt. of India publication 4. Bare Acts of the said laws published by Government. Reference books (Theory) |
| MOOC Courses | https://nptel.ac.in/ |
| Videos | You tube |

Syllabus-2023-2024

BPharm

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|----------------------------|-------------------|
| Title of the Course | Pharmacy Practice |
| Course Code | BP703T |

Part A

| Year | 4th | Semester | 7th | Credits | L | T | P | C |
|--|--|----------|--------------------|-----------------------|---|---|---|---|
| | | | | | 3 | 1 | 0 | 4 |
| Course Type | Theory only | | | | | | | |
| Course Category | Discipline Core | | | | | | | |
| Pre-Requisite/s | | | | Co-Requisite/s | | | | |
| Course Outcomes & Bloom's Level | <p>CO1- To acquire the knowledge on organization of hospitals, various methods of distribution and hospital formulary in hospitals and apply it in the practice of pharmacy. (BL1-Remember)</p> <p>CO2- To outline the organization and structure of community pharmacy and to build ability to design and run own community pharmacy. (BL1-Remember)</p> <p>CO3- To demonstrate the knowledge of therapeutic drug monitoring, patient medication history interview and to apply the knowledge on assessment of drug related problems. (BL2-Understand)</p> <p>CO4- categorize and evaluate the role of hospital pharmacist in pharmacy and therapeutic committee, drug information services, patient counseling, education and training programmes in hospitals. (BL1-Remember)</p> <p>CO5- To interpret clinical laboratory tests of specific disease states to provide better patient centered service. (BL4-Analyze)</p> | | | | | | | |
| Courses Elements | Skill Development X Entrepreneurship ✓ Employability ✓ Professional Ethics ✓ Gender ✓ Human Values ✓ Environment X | | SDG (Goals) | | SDG1(No poverty) SDG2(Zero hunger) SDG3(Good health and well-being) SDG4(Quality education) SDG5(Gender equality) SDG6(Clean water and sanitation) | | | |

Part B

| Modules | Contents | Pedagogy | Hours |
|---------|---|--|-------|
| UNIT 1 | 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. | Lecture based learning, interactive class, Peer tutorial, Class using ICT tool/PPT/white board | 10 |
| UNIT 2 | 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. | Lecture based learning, interactive class, Peer tutorial, Class using ICT tool/PPT/white board | 10 |
| UNIT 3 | a) Pharmacy and therapeutic committee Organization, functions, Policies of the pharmacy and therapeutic committee in including drugs into formulary, inpatient and outpatient prescription, automatic stop order, and emergency drug list preparation. b) Drug information services Drug and Poison information center, Sources of drug information, Computerized services, and storage and retrieval of information, Patient counseling Definition of patient counseling; steps involved in patient counseling, and Special cases that require the pharmacist c) 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. d) Prescribed medication order and communication skills Prescribed medication order- interpretation and legal requirements, and Communication skills- communication with prescribers and patients. | Lecture based learning, interactive class, Peer tutorial, Class using ICT tool/PPT/white board | 10 |
| UNIT 4 | 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. | Lecture based learning, interactive class, Peer tutorial, Class using ICT tool/PPT/white board | 08 |
| UNIT 5 | a) Drug store management and inventory control Organization 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. | Lecture based learning, interactive class, Peer tutorial, Class using ICT tool/PPT/white board | 07 |

Part C

| Modules | Title | Indicative-ABCA/PBL/ Experiments/Field work/ Internships | Bloom's Level | Hours |
|---------|-----------------------|--|----------------|-------|
| 1 | Visit of ITM Hospital | Internships | BL2-Understand | 3 |
| 2 | Visit of ITM Hospital | Field work | BL2-Understand | 2 |

Part D(Marks Distribution)

| Theory | | | | | |
|-------------|-----------------------|---------------------|--------------------------|---------------------|--------------------------|
| Total Marks | Minimum Passing Marks | External Evaluation | Min. External Evaluation | Internal Evaluation | Min. Internal Evaluation |
| 100 | 50 | 75 | 38 | 25 | 13 |
| Practical | | | | | |
| Total Marks | Minimum Passing Marks | External Evaluation | Min. External Evaluation | Internal Evaluation | Min. Internal Evaluation |
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