COURSE OBJECTIVES |||

» **Understanding Scientific Concepts**
Develop a deep understanding of scientific concepts, theories, and research findings relevant to the chosen topic.

» **Research Skills**
Acquire advanced research skills to gather, evaluate, and synthesize scientific literature and data from credible sources.

» **Clarity and Precision**
Master the art of conveying complex scientific information with clarity, precision, and accuracy for a diverse audience.

» **Structured and Logical Presentation**
Learn to organize scientific content in a structured and logical manner, presenting ideas and findings in a coherent sequence.

COURSE OUTCOMES |||

» **In-Depth Scientific Understanding**
Demonstrate an in-depth understanding of scientific concepts and principles relevant to the chosen topic.

» **Advanced Research Proficiency**
Showcase advanced research skills by incorporating up-to-date and relevant scientific literature into written content.

» **Clear and Accessible Writing Style**
Produce scientific content with a clear and accessible writing style, making complex information understandable to a diverse audience.

» **Structured Scientific Narratives**
Create well-structured scientific narratives that present ideas and findings logically, facilitating understanding and engagement.

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Scientific Content writing

Sr. No	Content	Hours
1	**Basics of literature survey:** Introduction to various search engine, how to use the key words for the search, use of search engine like google scholar, highwire Stanford, PubMed central, Medline, google patent, shodhganga etc	05
2	**Effective scientific writing-** Data retrieving from the research article, patent and review article, sorting of data in simple formats, Data analysis and used of data, how to structure the hypothesis, Objective and goal of research.	07
3	**Writing skills-** How to start the writing of scientific literature, difference between the review and research article writing, introduction to various types parts of thesis, the content required for the effective writing, effective way of presentation of data in charts, diagram and illustrations.	06
4	**Writing skill-** Writing should be effective, comprehensive and simplified to address the exact massage from the research, Introduction to various tools to assist your writing work like End note. Introduction to citation, types of journals and publishing house.	06

	selection of journal, impact factors, h index, following author guidelines, on line submission, proof reading of a manuscript, understanding the symbols, reviewing of a manuscript, making corrections and answering reviewers query, galley proof reading	
5	**Ethics in Publishing work:** Introduction to plagiarism, what is self-plagiarism, how to avoid plagiarism, introduction to the various tools for plagiarism checking like plagiarism checker, Urkund, Turnitin etc	06

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COURSES OFFERED

GOOD LABORATORY PRACTICES

Under **IQAC** SIPS

2022 2023

Add on / Value added Certificate Courses

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COURSE OBJECTIVES |||

» **Laboratory Safety Awareness**
Develop a comprehensive understanding of laboratory safety protocols and guidelines to ensure a secure working environment.

» **Equipment Handling and Maintenance**
Acquire skills in the proper handling, operation, and routine maintenance of laboratory equipment to ensure accuracy and reliability.

» **Sample Handling and Preparation**
Learn techniques for proper sample handling, preparation, and storage to maintain the integrity of experimental materials.

» **Documentation and Record Keeping**
Implement effective documentation and record-keeping practices to track experimental procedures, observations, and results accurately.

COURSE OUTCOMES |||

» **Safe Laboratory Practices**
Demonstrate a commitment to safe laboratory practices, reducing the risk of accidents and ensuring the well-being of personnel.

» **Optimal Equipment Performance**
Operate laboratory equipment effectively, ensuring optimal performance and accurate experimental results.

» **Integrity in Sample Handling**
Apply proper sample handling techniques, preserving the integrity of experimental materials and minimizing contamination.

» **Accurate Documentation**
Maintain accurate and detailed documentation, fostering transparency and traceability in laboratory procedures and outcomes.

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Good Laboratory Practices

Sr No.	Content	Hours
1	**Introduction to GLP** Introduction to GLP, History, Scope, Principle, Fundamental points of GLP (Resources Characterization, Rules, Results, Quality assurance), WHO guidelines on GLP and GMP.	12
2	**Laboratory rules and SOP** General Rules/Protocols for Lab Safety measures,Organization and Personnel, Facilities, Equipment, Precaution and Safety in handling of chemicals and equipment's, Laboratory tools, Glassware and Instruments, Definition, preparation of Basic SOPs for Instrument handling and Maintenance.	06
3	**Quality assurances and quality control** Introduction, concept and scopes of Quality Control and Quality Assurance, Introduction of GMP and cGMP, GCP, Overview of ICH Guidelines - QSEM, with special emphasis on Q- series guidelines.	06

4	**Record Keeping and Protocol** Levels of Laboratories, Log Book Maintenance, Keeping data records, GLP documentations, protocol for conduct of non-clinical testing, control on animal house, documentation, CPCSEA guidelines, report preparation and documentation of Laboratory work, Calibration records, Validation of methods, Documentation of results, Audits &Audit reports.	06

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COURSES OFFERED

Hands on Training UV-vis, IR, HPLC, Gc

Add on / Value added Certificate Courses

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COURSE OBJECTIVES

» **Instrument Familiarity**
Develop a thorough understanding of the principles, components, and operation of UV-Vis, IR, HPLC, and GC instruments.

» **Sample Preparation Techniques**
Acquire hands-on experience in preparing samples for analysis, ensuring compatibility with each spectroscopy or chromatography technique.

» **Instrument Calibration**
Learn the procedures for instrument calibration to ensure accurate and reliable measurements in UV-Vis, IR, HPLC, and GC analyses.

» **Data Acquisition and Analysis**
Gain proficiency in acquiring and analyzing data generated by each instrument, interpreting results, and drawing meaningful conclusions.

COURSE OUTCOMES

» **Competent Instrument Operation**
Demonstrate competence in operating UV-Vis, IR, HPLC, and GC instruments, ensuring precise and reliable analytical results.

» **Effective Sample Preparation**
Execute sample preparation techniques effectively, optimizing the compatibility of samples with each analytical technique.

» **Accurate Calibration Procedures**
Perform accurate instrument calibration, contributing to the reliability and accuracy of measurements in spectroscopy and chromatography.

» **Proficient Data Analysis**
Analyze and interpret data generated by UV-Vis, IR, HPLC, and GC instruments proficiently, providing meaningful insights for scientific research.

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Hands on UV-Vis, IR, HPLC & GC

Sr No.	Content	Hours
1	**Infrared Spectroscopy:** 1. Basic principle and detailed instrumentation of IR. 2. Types of IR: FTIR, ATR 3. Sample preparation techniques for solids & liquids. 4. Compound characterization by IR spectrum. 5. Calibration	04
2	**Ultraviolet-Visible Spectroscopy** 1. Basic principle and detailed instrumentation of UV-Visible Spectro photometer 2. Qualitative and quantitative application. 3. Sample analysis. 4. Analytical method development and validation. 5. Calibration	07
3	**High Performance Liquid Chromatography** 1. Basic principle and detailed instrumentation of HPLC. 2. Sample analysis. 3. Analyticalmethoddevelopmentandvalidation. 4. Qualitative and quantitative application. 5. Calibration.	07

4	Gas Chromatography 1. Basic principle and detailed instrumentation of GC. 2. Sample analysis by using liquid auto sampler and head space sampler. 3. Analytical method Development and validation. 4. Qualitative and quantitative application. 5. Calibration.	07

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COURSE OBJECTIVES

» **Understanding Intellectual Property (IP)**
Develop a comprehensive understanding of intellectual property concepts, including patents, trademarks, copyrights, and trade secrets.

» **IP Laws and Regulations**
Familiarize yourself with national and international laws and regulations governing intellectual property, ensuring compliance and protection.

» **Invention Disclosure and Patenting**
Learn the process of invention disclosure, patent application, and the steps involved in obtaining and maintaining patent protection.

» **Trademark and Copyright Protection**
Understand the principles of trademark registration and copyright protection, including the application process and enforcement of rights.

COURSE OUTCOMES

» **Effective IP Management**
Demonstrate the ability to manage intellectual property effectively, considering legal, strategic, and commercial aspects.

» **Compliance with IP Laws**
Ensure compliance with intellectual property laws and regulations, minimizing the risk of infringement and legal consequences.

» **Successful Patent Applications**
Successfully navigate the process of patent applications, from invention disclosure to obtaining and maintaining patent protection.

» **Protected Trademarks and Copyrights**
Secure and maintain protected trademarks and copyrights, contributing to the safeguarding of brand identity and creative works.

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Intellectual Property Rights

Units	Syllabus Content	Hours
1	**Introduction To Ipr:** Meaning of property, Origin, Nature, Meaning of Intellectual Property Rights – 2 hours Introduction to TRIPS and WTO. – 2 hours Kinds of Intellectual property rights—Copy Right, Patent, Trade Mark, Trade Secret and trade dress, Design, Layout Design, Geographical Indication, Plant Varieties and Traditional Knowledge. – 5 hours	09
2	**Patent Rights and Copy Rights**— Origin, Meaning of Patent, Types, Inventions which are not patentable, Registration Procedure, Rights and Duties of Patentee, Assignment and licence, Restoration of lapsed Patents, Surrender and Revocation of Patents, Infringement, Remedies & Penalties. – 6 hours COPY RIGHT—Origin, Definition &Types of Copy Right, Registration procedure, Assignment & licence, Terms of Copy Right, Piracy, Infringement, Remedies, Copy rights with special reference to software	12
3	**Trade Marks**— Origin, Meaning & Nature of Trade Marks, Types, Registration of Trade Marks, Infringement & Remedies, Offences relating to Trade Marks, Passing Off, Penalties. – 4 hours Domain Names on cyber space. – 2 hours	6
4	**Design-** Meaning, Definition, Object, Registration of Design, Cancellation of Registration, International convention on design, functions of	6

	Design. Semiconductor Integrated circuits and layout design Act-2000.	
5	**Basic Tenents of Information Technology Act-2000 –** IT Act - Introduction E-Commerce and legal provisions E- Governance and legal provisions Digital signature and Electronic Signature. Cybercrimes	6

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COURSES OFFERED
MEDICAL SOFTWARE
L E A R N I N G

Under
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2022-23

ADD ON / VALUE ADDED CERTIFICATE COURSES

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COURSE OBJECTIVES

» **Understanding Medical Software**
Develop a foundational understanding of medical software applications, including Electronic Health Records (EHR), medical imaging software, and clinical decision support systems.

» **Usage and Navigation**
Acquire skills in navigating and utilizing medical software interfaces efficiently, ensuring seamless integration into healthcare workflows.

» **Data Entry and Retrieval**
Learn accurate data entry techniques and efficient retrieval methods within medical software systems to maintain comprehensive patient records.

» **Interoperability**
Understand the concept of interoperability and the integration of medical software with other healthcare systems, fostering seamless information exchange.

COURSE OUTCOMES

» **Competent Medical Software Utilization**
Demonstrate competence in using various medical software applications, contributing to efficient healthcare service delivery.

» **Efficient Navigation**
Navigate and utilize medical software interfaces efficiently, improving overall productivity in healthcare settings.

» **Accurate Data Management**
Execute precise data entry and retrieval within medical software systems, ensuring the integrity of patient records.

» **Interconnected Healthcare Systems**
Contribute to the development of an interconnected healthcare system by understanding and promoting interoperability among medical software platforms.

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Medical Software Learning

Chapter	Topic	Hours
1	• **Introduction to Medical Software (3 hours)** • Overview of pharmacy software systems and their role in pharmacy operations. • Introduction to pharmacy management systems and their benefits. • Discussion on inventory control software for pharmacies. • Ethical considerations and regulatory requirements in pharmacy software usage.	3
2	• **Pharmacy Management Systems** • Understanding the functionalities and components of pharmacy management systems. • Navigating a pharmacy management system. • Inventory management and control using pharmacy software. • Prescription processing and medication dispensing. • Reporting and analytics in pharmacy management software	6
3	• **Prescription Processing and Medication Therapy Management** • Workflow and prescription processing using pharmacy software. • Medication therapy management using pharmacy software tools. • Drug interactions, allergies, and contraindications alerts in pharmacy software. • Medication reconciliation and patient counselling.	8
4	• **Inventory Control and Ordering** • Managing pharmacy inventory using software tools.	4

	• Setting reorder points and managing stock levels. • Ordering and receiving medications through pharmacy software. • Utilizing barcodes and scanning technologies for inventory control.		
5	**Billing and Claims Processing** • Pharmacy billing processes and claims management. • Third-party billing and reimbursement using pharmacy software. • Managing insurance information and prior authorizations. • Handling rejected claims and resubmission processes.	5	
6	• **Data Security and Privacy** • Ensuring data security and privacy in pharmacy software usage. • HIPAA compliance and patient data protection. • Best practices for data backup and disaster recovery. • Training pharmacy staff on data security and privacy.	4	

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COURSES OFFERED

PRECLINICAL STUDIES

Under **IQAC** SIPS 2022-23

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COURSE OBJECTIVES

» **Study Design and Planning**
Learn to design preclinical studies, including defining objectives, selecting appropriate animal models, and establishing experimental protocols.

» **Ethical Considerations**
Understand and adhere to ethical considerations in preclinical research, ensuring the humane treatment of animals and the validity of study results.

» **Data Collection and Analysis**
Acquire skills in collecting accurate and reliable data from preclinical experiments and employing statistical methods for analysis.

» **Experimental Techniques**
Familiarize yourself with a range of experimental techniques used in preclinical studies, adapting methods to specific research objectives.

COURSE OUTCOMES

» **Effective Study Design**
Demonstrate the ability to design preclinical studies that address research objectives and provide meaningful insights.

» **Ethical Conduct in Research**
Uphold ethical standards in preclinical research, considering the welfare of animals and maintaining integrity in study procedures.

» **Accurate Data Interpretation**
Analyze preclinical data accurately, drawing valid conclusions and contributing to the scientific understanding of tested hypotheses.

» **Proficiency in Experimental Techniques**
Execute experimental techniques proficiently, adapting protocols to the specific requirements of preclinical research.

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Preclinical Studies

Sr No.	Content	Hours
1	**Introduction to preclinical studies and types of Preclinical studies** • Importance of preclinical studies • In-Vitro • In vivo	04
2	**Importance of preclinical studies for drug discovery**	04
3	**Ethical bodies for animal studies** • CPCSEA and approval	04
4	**Introduction to Different types of Laboratory animals and importance** • Rats • Mice • Guinea Pigs • Rabbits	02
5	**In vitro studies** • Introduction to various in vitro studies like antioxidant, anti-inflammatory etc., • Cell culture techniques • In vitro assay procedures	06
6	**Toxicity studies and their use in pre clinical services** • OECD guidelines • Acuteoraltoxicity • Subacute toxicity • Subchronic toxicity • Chronic toxicity • Carcinogenicity	06

7	**Euthanasia techniques of animals after study as per CPCSEA**	02
8	**Preparation of study protocols according to standard guidelines**	02

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COURSES OFFERED

PREFORMULATION STUDIES

ADD ON / VALUE ADDED CERTIFICATE COURSES

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COURSE OBJECTIVES

» **Physical Properties Assessment**
Evaluate the physical properties of drug substances, including solubility, stability, and particle size distribution, to inform formulation design.

» **Compatibility Studies**
Conduct compatibility studies to assess the interactions between drug substances and excipients, ensuring formulation stability.

» **Polymorphism and Crystallinity Analysis**
Analyze the polymorphic forms and crystallinity of drug substances, providing insights into their solid-state characteristics and potential effects on formulation.

» **Excipient Selection**
Identify and select appropriate excipients based on their compatibility with the drug substance and their contribution to formulation goals.

COURSE OUTCOMES

» **Informed Formulation Design**
Utilize preformulation studies to make informed decisions in designing drug formulations, considering physical and chemical properties.

» **Stability Assessment**
Assess the stability of drug substances and formulations, ensuring their suitability for further development and manufacturing.

» **Optimized Solid-State Characteristics**
Optimize the solid-state characteristics of drug substances, minimizing potential issues related to polymorphism and crystallinity.

» **Well-Informed Excipient Selection**
Select excipients judiciously, considering their compatibility with the drug substance and their contribution to the overall formulation.

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Pre-formulation Studies

Unit	Content	Allotted Hours
Unit I	**The Scope of Pre-formulation Studies** Introduction, Pre-formulation Testing Criteria, Regulatory Requirements, Testing Systems, Solid-State Characterization Transport Across Biological Membranes	5
Unit II	**Dissociation, Partitioning, and Solubility** Introduction, The Ionization Principle, Quantitative Structure –Activity Relationships, Partitioning, Measurement Strategies	5
Unit III	**Release, Dissolution, and Permeation** Introduction, Release, Assay Systems, The Biopharmaceutics Drug Classification Systems	5
Unit IV	**Solid-State Properties** Introduction, Crystal Morphology, Polymorphism, High-Throughput Crystal Screening, Solvates, Hydrates, Amorphous Forms, Hygroscopicity, Solubility, Study Methods	5
Unit V	**Dosage Form Considerations in Preformulation** Introduction, Solid Dosage Form Considerations, Solution Formulations, Emulsion Formulations, Freeze-Dried Formulations, Suspensions, Topical, Pulmonary Delivery, General Compatibility	5

Unit VI	**Chemical Drug Substance Characterization**	5
	Introduction, Scheme of Characterization, Impurities, Good Manufacturing Practice	
Unit VII	**Characterization of Biopharmaceutical Drugs**	5
	Introduction, Preformulation Studies, Packaging and Materials, Physio-Chemical Characterization Tests, Design of Preformulation Studies	

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COURSE OBJECTIVES

» **Understanding Regulatory Landscape**
Develop a comprehensive understanding of national and international regulatory frameworks governing the pharmaceutical and healthcare industries.

» **Regulatory Compliance**
Learn to interpret and ensure compliance with regulatory requirements related to drug development, manufacturing, and marketing.

» **Submission and Documentation Skills**
Acquire skills in preparing and submitting regulatory documents, including applications for product approval, labeling, and safety reporting.

» **Interaction with Regulatory Agencies**
Familiarize yourself with the processes and protocols for interacting with regulatory agencies, including responding to inquiries and participating in regulatory inspections.

COURSE OUTCOMES

» **Comprehensive Regulatory Knowledge**
Demonstrate a comprehensive understanding of the regulatory landscape, ensuring adherence to relevant laws and standards.

» **Ensured Regulatory Compliance**
Ensure compliance with regulatory requirements throughout the drug development lifecycle, minimizing risks and ensuring product quality and safety.

» **Effective Document Preparation**
Prepare and submit regulatory documents accurately and efficiently, facilitating the approval and marketing of pharmaceutical products.

» **Positive Regulatory Interactions**
Engage effectively with regulatory agencies, fostering positive interactions and demonstrating a commitment to regulatory compliance.

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Regulatory Affairs

Sr No.	Content	Hours
1	**Introduction to Regulatory Affairs** • Definition and scope of regulatory affairs • Role of regulatory affairs in the pharmaceutical industry • Global regulatory guidelines and key regulatory authorities	02
2	**Regulatory Guidelines and Standards** • Overview of international regulatory guidelines and standards • Good Laboratory Practices (GLP) • Good Clinical Practices (GCP) • Good Manufacturing Practices (GMP) • Good Pharmacovigilance Practices (GVP)	02
3	**Drug Development Process** • Preclinical testing and data requirements • Phases of clinical trials and regulatory considerations • Investigational New Drug (IND) application • New Drug Application (NDA) and Biologic License Application (BLA)	04
4	**Regulatory Submissions and Interactions** • Electronic Common Technical Document (eCTD) format • Preparation and submission of regulatory dossiers • Regulatory meetings and communications with Regulatory authorities • Post-submission requirements and updates	04
5	**Pharmacovigilance and Post-Marketing Surveillance** • Adverse drug event reporting and monitoring • Post-marketing safety studies • Risk management plans • Labeling and package inserts	04

6	**Regulatory Compliance and Inspections** • Regulatory inspections and audits • Corrective and preventive actions (CAPA) • Quality management systems • Compliance with regulatory requirements	04
7	**Global Regulatory Harmonization** • International Conference on Harmonisation(ICH) guidelines • Mutual Recognition Agreements (MRAs) • Harmonization initiatives and their impact on Regulatory affairs.	02
8	**Regulatory Affairs in Specialized Areas** • Regulatory considerations for generics and biosimilars • Medical devices and diagnostics regulations • Nutraceuticals and dietary supplements regulations • Regulatory affairs in emerging technologies (e.g.,Gene therapies, cell-based products)	04
9	**Current Trends and Future Developments** • Regulatory challenges and emerging issues • Digital health technologies and regulatory implications • Regulatory affairs careers and professional • Development opportunities**.**	04

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Sandip Foundation's

SANDIP INSTITUTE OF PHARMACEUTICAL SCIENCES

UNDER IQAC SIPS - 2022 - 2023

COURSES OFFERED

MEDICAL CODING / MEDICAL WRITING / PHARMACOVIGILANCE

Add on / Value added Certificate Courses

Our Program structures offers students the flexibility to enhance their academic experience by enrolling in Two Courses per academic year, with option to take one course per semester. This approach allows students to delve deeper into their areas of interest, diversify their skill set and tailor their learning journey to align with their career aspirations

COURSE OBJECTIVES

» **Comprehensive Healthcare Information Management**
Develop skills to seamlessly integrate medical coding, medical writing, and pharmacovigilance practices for comprehensive healthcare information management.

» **Regulatory Compliance and Ethical Practices**
Acquire a strong understanding of regulatory compliance in medical coding, medical writing, and pharmacovigilance, ensuring adherence to guidelines and ethical standards.

» **Effective Communication in Healthcare**
Enhance communication skills to effectively convey complex medical information through accurate coding, clear medical writing, and precise pharmacovigilance reporting.

» **Interdisciplinary Collaboration**
Foster the ability to collaborate across disciplines, promoting synergy between medical coding, medical writing, and pharmacovigilance teams for holistic healthcare information management.

COURSE OUTCOMES

» **Unified Healthcare Information Systems**
Demonstrate the ability to contribute to the establishment of unified healthcare information systems by seamlessly incorporating medical coding, medical writing, and pharmacovigilance practices.

»
Ensured Regulatory Adherence
Ensure regulatory adherence across medical coding, medical writing, and pharmacovigilance activities, fostering compliance and ethical practices in healthcare
» information management.

Clarity in Healthcare Communication
Achieve clarity and precision in healthcare communication through accurate coding, clear
» medical writing, and thorough pharmacovigilance reporting, facilitating better understanding among diverse stakeholders.

Enhanced Interdisciplinary Collaboration
Facilitate enhanced interdisciplinary collaboration by understanding the interplay between medical coding, medical writing, and pharmacovigilance, contributing to a more cohesive and efficient healthcare information management system.

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Prof. Kishori Ahire

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Dr. Swati G. Talele : 9850165808

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Medical Coding/ Medical Writing/ Pharmacovigilance

Units	Syllabus	Hours
1	**Medical Coding:** **(CPT, ICD 9-CM, ICD -10 CM, DSM, CDT, APC, and HCPCS)** CPT – Current Procedural Terminology ICD – International Classification of Diseases DSM- Diagnostic and Statistical manual CDT – Code on Dental Procedures and Nomenclature. APC- Ambulatory Payment Categories HCPCS- Healthcare Common Procedure Coding System .	5 Hours

2	Health Insurance Policies
	  Health insurance Portability and Accountability Act
	  Evaluating medical services, procedures, and guidelines
	  Documenting medical records
	Medical Ethics
	Anaesthesia
		5 Hours

3	**Medical Writing:** 1- Introduction in Healthcare Communication and Medical Writing: • Understanding the term 'Medical Writing' • Types of medical writing • Qualities required in a medical writer • Target audience • Employers and clients 2- The Writing Process • The four steps in the writing process • Prewriting strategies • Drafting	5 Hours

		- Revising - Refining 3- Online and Offline Writing Skills for Media - Reader behaviors - Differences between web and print media - Effective web writing techniques	
4		☐**Regulatory Submissions and Interactions** - Electronic Common Technical Document (eCTD) format - Preparation and submission of regulatory dossiers - Regulatory meetings and communications with regulatory authorities - Post-submission requirements and updates	5 hours
5		☐ Basic Rules of Writing - Basic structure of a write-up - Writing the basic components - Grammar basics - General rules of writing	5 Hour
6		Consumer writing - General rules for consumer writing - Types of consumer writing - Consumer news - Consumer reviews - Blogs - Newsletters - Fact sheets - Care guides	5 hours

7	**Pharmacovigilance:**	5 hours

	1. Introduction to Pharmacovigilance
	    • History and development of Pharmacovigilance
	    • Importance of safety monitoring of Medicine
	    • WHO international drug monitoring programme	

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Courses Offered

Analytical Instruments Handling Techniques

Under
IQAC
SIPS

2021-22

Add on / Value added Certificate Courses

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COURSE OBJECTIVE

01 Instrument Familiarity: Gain a comprehensive understanding of various analytical instruments commonly used in laboratory settings, including spectroscopy, chromatography, and mass spectrometry.

02 Calibration and Maintenance: Develop skills in the calibration and routine maintenance of analytical instruments to ensure accurate and reliable results.

03 Sample Preparation Techniques: Learn effective sample preparation techniques compatible with different analytical instruments, ensuring optimal data quality.

04 Data Acquisition and Analysis: Acquire proficiency in the proper handling of analytical instrument data, including data acquisition, processing, and interpretation.

COURSE OUTCOMES

01 Competent Instrument Operation: Demonstrate competence in operating a range of analytical instruments, ensuring precision and accuracy in experimental results.

02 Reliable Calibration and Maintenance: Perform accurate instrument calibration and routine maintenance, contributing to the reliability and longevity of analytical equipment.

03 Effective Sample Preparation: Execute sample preparation techniques effectively, ensuring the integrity of samples and the reliability of analytical results.

04 Accurate Data Acquisition and Analysis: Proficiently handle analytical instrument data, including acquisition, processing, and analysis, leading to accurate and meaningful results.

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(Academic Dean)

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Introduction to Analytical Instruments

Sr No.	Content	Hours
1	**Introduction to UV** • Instrumentation • Applications • Method development and validation • Interpretation of UV spectra.	08
2	**Introduction to HPLC** • Instrumentation • Applications • Method development and validation	08
3	**Introduction to IR** • Instrumentation • Applications • Interpretation of IR spectra	07
4	**Introduction of GC** • Instrumentation • Applications • Method development and validation	07

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BUSINESS

NETWORK SEARCH

Courses Offered

Medical Software Learning

Under
IQAC
SIPS | **2020-21**

Add on / Value added Certificate Courses

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COURSE OBJECTIVE

01 **Understanding Medical Software:** Develop a foundational understanding of medical software applications, including Electronic Health Records (EHR), medical imaging software, and clinical decision support systems.

02 **Usage and Navigation:** Acquire skills in navigating and utilizing medical software interfaces efficiently, ensuring seamless integration into healthcare workflows.

03 **Data Entry and Retrieval:** Learn accurate data entry techniques and efficient retrieval methods within medical software systems to maintain comprehensive patient records.

04 **Interoperability:** Understand the concept of interoperability and the integration of medical software with other healthcare systems, fostering seamless information exchange.

COURSE OUTCOMES

01 **Competent Medical Software Utilization:** Demonstrate competence in using various medical software applications, contributing to efficient healthcare service delivery.

02 **Efficient Navigation:** Navigate and utilize medical software interfaces efficiently, improving overall productivity in healthcare settings.

03 **Accurate Data Management:** Execute precise data entry and retrieval within medical software systems, ensuring the integrity of patient records.

04 **Interconnected Healthcare Systems:** Contribute to the development of an interconnected healthcare system by understanding and promoting interoperability among medical software platforms.

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Medical Software Learning

Chapter	Topic	Hours
1	• **Introduction to Medical Software (3 hours)** • Overview of pharmacy software systems and their role in pharmacy operations. • Introduction to pharmacy management systems and their benefits. • Discussion on inventory control software for pharmacies. • Ethical considerations and regulatory requirements in pharmacy software usage.	3
2	• **Pharmacy Management Systems** • Understanding the functionalities and components of pharmacy management systems.	6

		- Navigating a pharmacy management system. - Inventory management and control using pharmacy software. - Prescription processing and medication dispensing. - Reporting and analytics in pharmacy management software	
3		**Prescription Processing and Medication Therapy Management** - Workflow and prescription processing using pharmacy software. - Medication therapy management using pharmacy software tools. - Drug interactions, allergies, and contraindications alerts in pharmacy software. - Medication reconciliation and patient counseling.	8
4		**Inventory Control and Ordering** - Managing pharmacy inventory using software tools. - Setting reorder points and managing stock levels. - Ordering and receiving medications through pharmacy software.	4

		• Utilizing barcodes and scanning technologies for inventory control.	
5	**Billing and Claims Processing** • Pharmacy billing processes and claims management. • Third-party billing and reimbursement using pharmacy software. • Managing insurance information and prior authorizations. • Handling rejected claims and resubmission processes.		5
6	• **Data Security and Privacy** • Ensuring data security and privacy in pharmacy software usage. • HIPAA compliance and patient data protection. • Best practices for data backup and disaster recovery. • Training pharmacy staff on data security and privacy.		4

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SANDIP FOUNDATION

Courses Offered
Laboratory Skills

Under
IQAC
SIPS

2021-22

Add on / Value added Certificate Courses

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COURSE OBJECTIVE

01 **Lab Safety Practices:** Develop a thorough understanding of laboratory safety protocols, including proper handling of chemicals, equipment, and emergency procedures.

02 **Instrumentation Familiarity:** Gain proficiency in using common laboratory instruments such as microscopes, spectrophotometers, and centrifuges.

03 **Precision and Accuracy in Measurements:** Acquire skills for precise measurement techniques, including pipetting, dilution, and calibration of laboratory instruments.

04 **Experimental Design and Planning:** Learn the principles of experimental design and planning, including hypothesis formulation, protocol development, and data collection strategies.

COURSE OUTCOMES

01 **Safety-Conscious Lab Practices:** Demonstrate a commitment to safety through the consistent application of lab safety practices, minimizing risks and promoting a secure work environment.

02 **Proficient Instrumentation Use:** Operate laboratory instruments proficiently, ensuring accurate and reliable experimental outcomes.

03 **Accurate Measurement Skills:** Execute precise measurement techniques, contributing to the accuracy of experimental procedures and data.

04 **Effective Experimental Planning:** Design and plan experiments effectively, considering variables, controls, and ethical considerations for robust scientific investigations.

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Laboratory skills

Chapter	Topic	Hours
1	Hap/ Biotech Lab SOP & Information of- • Autoclave • Laminar air flow • Centrifuge • Orbital Shaker	5
2	Pharmacognosy Lab SOP & Information of- • Incubator • Hot air oven • Muffle furnace • Autoclave	4
3	Pharmaceutics Lab SOP & Information of- • Stirrer • Digital Melting point apparatus • Hot air oven • Bulk density apparatus • Preparation room • Aseptic cabinet • Sieve shaker • Hot plate	6

4	Chemistry Lab SOP & Information of- • Hot air oven • Filtration Assembly • Fuming Hood • Hazardous Chemicals • Magnetic Stirrer	6
5	Pharmacology Lab SOP & Information of- • Analgesiometer • Rota rod • Hot plate • Student organ bath • Rotating drum • Neurotransmitter • LED	5
6	Analysis Lab SOP & Information of- • Hot air Oven • Centrifuge • Hazardous Chemicals • Apparatus	4

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Course Offered

Communication Skills and Personality Development

Under
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SIPS

Add on / Value added Certificate Courses

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COURSE OBJECTIVE

Non-Verbal Communication Proficiency: Enhance non-verbal communication skills, including body language, gestures, and facial expressions, for effective interpersonal interactions.

Active Listening Skills: Cultivate active listening techniques to better understand and respond empathetically to others.

Presentation Skills: Acquire skills for delivering impactful presentations with clarity, engaging content, and effective use of visual aids.

Conflict Resolution Techniques: Learn strategies for resolving conflicts diplomatically and constructively in personal and professional settings.

COURSE OUTCOMES

Clear and Confident Communication: Demonstrate clear and confident verbal communication, contributing to effective interpersonal relationships.

Non-Verbal Communication Mastery: Exhibit proficiency in non-verbal communication, enhancing the overall impact of interpersonal interactions.

Active Listening Competence: Apply active listening skills to understand others' perspectives and respond empathetically.

Dynamic Presentation Abilities: Deliver dynamic and engaging presentations, effectively conveying ideas to diverse audiences.

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Communication Skills

Chapter	Topic	Hours
1	**Introduction to Communications** • Importance • Communication Process • Feedback • Importance of Feedback	3
2	**Barriers to Communications** • Physiological • Physical • Cultural • Language • Gender • Interpersonal • Psychological • Emotional	5
3	**Letter Writing** • Types of Letters • Friendly Letter • Business Letter • Letter of Application • Letter of Enquiry • Orders & Complaints	2
4	**Oral Presentation** • Presentation • Meeting • Notice • Agenda	3

		• Minutes • Dealing with Fears • Techniques of Delivery	
5	**Correct Usage** • Proper use of Words • Sentence forming • Differentiating pair of words		2
6	**Advertising** • Importance of Advertisement • Types of Media • Use of Language • Graphic Aids • Use of Graph, Music, Videos		4
7	**Interview Skills** • Purpose of Interview • Types of Interviews • Do's & Don'ts • Technique of Handling Question		6
8	**Group Discussion** • Introduction • Communication skills in Discussion • Essentials of Group Discussion • Difference between Group Discussion & Debate • Steps Involved		5

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Courses Offered

Methods of Extraction HERBAL DRUGS

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SIPS

Add on / Value added Certificate Courses

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COURSE OBJECTIVE

- **Understanding Herbal Drugs:** Develop a comprehensive understanding of herbal drugs, including their sources, chemical constituents, and therapeutic properties.

- **Extraction Techniques Knowledge:** Acquire knowledge of various extraction techniques used for obtaining active compounds from medicinal plants, including maceration, percolation, and distillation.

- **Solvent Selection and Properties:** Understand the selection and properties of solvents used in herbal drug extraction, considering factors such as polarity, toxicity, and efficiency.

- **Optimization of Extraction Parameters:** Learn methods for optimizing extraction parameters, including time, temperature, and solvent-to-material ratio, to enhance the yield and quality of extracted compounds.

COURSE OUTCOMES

- **Comprehensive Herbal Drug Knowledge:** Demonstrate a comprehensive understanding of herbal drugs, including their sources, constituents, and therapeutic applications.

- **Proficient in Extraction Techniques:** Apply various extraction techniques proficiently, selecting the most suitable method for different types of plant materials.

- **Effective Solvent Utilization:** Utilize solvents effectively, considering their properties to achieve optimal extraction of bioactive compounds.

- **Optimized Extraction Processes:** Implement optimized extraction processes, maximizing the yield and quality of herbal extracts through parameter adjustments.

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Introduction to methods of extractions And Herbal Drugs

Units	Syllabus	Hours
1	**Introduction to extraction of medicinal plants.** • Overview of various extraction techniques and their significance in pharmacy. • Historical development and milestones in the field of extraction technology. • Current trends and future prospects of extraction methods. • Steps involved in the preparation of various extracts.	6 Hours
2	**Selection of an appropriate extraction method** • Introduction to maceration, decoction, and hot continuous extraction techniques. • Introduction to counter current extraction, aqueous alcoholic extraction by fermentation, microwave assisted extraction, pressurized extraction techniques. • Selecting an appropriate method for extracting the essential oils.	6 Hours
3	**Selecting the solvent selection and steps involved in extraction of medicinal plants.** • Types of solvents, solubility and properties of various solvents	4 hours

	• . details of steps involved in extraction of plants e.g. size reduction, extraction, filtration, concentration, drying.	
4	**Extraction techniques for aromatic plants** • Hydro distillation techniques (water distillation, steam distillation, steam and water distillation.) • Solid phase micro extraction, microdistillation, molecular distillation.	3 hours
5	**Advanced extraction techniques** • Introduction, Principle, Working, Advantages, Disadvantages and uses of Enzyme extraction, molecular distillation, supercritical fluid extraction, ultrasound extraction.	6 hours
6	**Applications of extraction techniques** • Super critical fluid extraction of pepper. • Separation of essential oil by hydro distillation (clove oil) • Preparation of water extract of amla fruit by microwave assisted extraction.	5 hours

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Courses Offered

Introduction to ANIMAL HANDLING

Under IQAC SIPS | **2021-22**

Add on / Value added Certificate Courses

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COURSE OBJECTIVE

- **Understanding Animal Behavior:** Develop a fundamental understanding of animal behavior, including species-specific characteristics, body language, and communication cues.

- **Safety Protocols:** Learn and implement safety protocols for both handlers and animals, minimizing risks and ensuring the well-being of all parties involved.

- **Appropriate Handling Techniques:** Acquire skills in using appropriate and gentle handling techniques, considering the species, size, and temperament of the animals.

- **Restraint Methods:** Understand and apply safe and humane restraint methods for various animals, ensuring minimal stress and discomfort.

COURSE OUTCOMES

- **Safe and Respectful Animal Handling:** Demonstrate the ability to handle animals safely and respectfully, considering their well-being as a top priority.

- **Effective Communication with Animals:** Establish effective communication with animals, recognizing and responding appropriately to their behavioral cues.

- **Appropriate Restraint Techniques:** Apply appropriate restraint techniques, minimizing stress and ensuring the safety of both handlers and animals.

- **Reduced Animal Stress during Handling:** Implement strategies to reduce stress and anxiety in animals during handling procedures, contributing to their overall welfare.

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Introduction to Animal Handling Course

Sr No.	Content	Hours
1	**Introduction to Different types of Laboratory animals and importance** • Rats • Mice • Guinea Pigs • Rabbits	02
2	**Ethical bodies for animal studies** • CPCSEA and approval • OECD guidelines	06
3	**Importance of pre-clinical studies for drug discovery**	06
4	**Euthanasia techniques of animals after study as per CPCSEA**	02
5	**Preparation of study protocols according to standard guidelines**	02
6	**Practical training** • Animal Handling • Introduction to experimental techniques • Peri-operative care and post-operative care • Dosing and different routes of administration like oral, IV, IP, Ocular etc. • Blood withdrawal techniques	08
7	**Practical training** • Collection and preservation tissues for Histopathology • Euthanasia & Anesthesia	04

	• Discard of dead animal according to CPCSEA procedure	

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Courses Offered
Basic principles in
Cosmetic Technology

Add on / Value added Certificate Courses

Under IQAC | 2021-22 SIPS

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COURSE OBJECTIVE

- **Understanding Cosmetic Ingredients:** Develop a foundational understanding of cosmetic ingredients, including their properties, functions, and compatibility.

- **Formulation Techniques:** Acquire skills in formulating cosmetic products, considering factors such as stability, texture, and sensory attributes.

- **Quality Control and Safety Standards:** Learn principles of quality control and adherence to safety standards in cosmetic manufacturing to ensure product safety and efficacy.

- **Packaging and Preservation:** Understand the principles of appropriate packaging and preservation methods to maintain product integrity and shelf life.

COURSE OUTCOMES

- **In-depth Ingredient Knowledge:** Demonstrate an in-depth understanding of cosmetic ingredients and their roles in formulation.

- **Effective Formulation Skills:** Develop proficiency in formulating cosmetic products with attention to stability, aesthetics, and performance.

- **Quality Assurance:** Implement quality control measures to ensure consistency, safety, and efficacy of cosmetic products.

- **Optimal Packaging and Preservation:** Apply principles of appropriate packaging and preservation techniques for cosmetic products to maintain their quality.

CHIEF PATRON

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Sandip Foundation

CONVENER

Prof. Dr. Anil G. Jadhav
Principal
SIPS, Nashik

COORDINATOR

Dr. L. B. Borse
(Academic Dean)

REGISTRATION DETAILS

Dr. V. T. Pathan
9766294041

SANDIP FOUNDATION''s

SANDIP INSTITUTE OF PHARMACEUTICAL SCIENCES,

At Post- Mahiravani, Tal/Dist. Nashik–422213, Maharashtra, IndiaWeb:

www.sandipfoundation.org **E-mail:** info@sandipfoundation.org**Phone:**

(02594) 222591/92/93/94/95, Fax: (02594) 222555

Basic Principles in Cosmetic Technology

Units	Syllabus	Hours
1	• **Introduction to Cosmetic Technology** Definition and scope of cosmetic technology Historical overview of cosmetics Role of cosmetic technologists Introduction to cosmetic regulations and standards	5 Hours
2	• **Cosmetic Ingredients** Classification of cosmetic ingredients (active vs. inactive) Commonly used ingredients: emollients, humectants, preservatives, colorants, fragrances, etc. Functions and properties of cosmetic ingredients Safety considerations and regulations for cosmetic ingredients	05 Hours
3	• **Cosmetic Formulations** Introduction to cosmetic formulation principles Formulation types: creams, lotions, gels, powders, etc. Formulation ingredients and their interactions Formulation techniques and procedures Packaging considerations for cosmetic formulations	05 Hours

4	• **Manufacturing Processes in Cosmetics** Overview of cosmetic manufacturing processes Mixing and blending techniques Emulsification methods Heating and cooling processes Filling, packaging, and labelling of cosmetic products	5hours
5	• **Quality Control in Cosmetics** Importance of quality control in cosmetic production Quality control tests: physical, chemical, and microbiological Good Manufacturing Practices (GMP) for cosmetics Stability testing and shelf-life determination Documentation and record-keeping in quality control	05 hours
6	• **Stability and Shelf-Life of Cosmetics** Factors affecting cosmetic product stability Formulation considerations for stability Packaging and storage conditions for maintaining product integrity Testing methods for assessing product stability Determining the shelf-life of cosmetic products Regulatory authorities and guidelines for cosmetics	05 hours

IQAC In charge	Dr. Atul Bendale
Signature	

COURSE OBJECTIVE

- **Pharmacy Information Systems Management:** Develop proficiency in utilizing computer applications for efficient management of pharmacy information systems, including drug inventory and patient records.

- **Electronic Prescription Processing:** Acquire skills to process electronic prescriptions accurately and securely, ensuring timely and error-free dispensing of medications.

- **Clinical Decision Support Systems Utilization:** Learn how to integrate and utilize clinical decision support systems to enhance pharmaceutical care and optimize medication therapy outcomes.

- **Medication Safety and Screening:** Apply computer programs for medication safety checks, screening for drug interactions, allergies, and dosage errors to prevent adverse effects.

COURSE OUTCOMES

- **Streamlined Pharmacy Operations:** Demonstrate efficiency in pharmacy operations through the effective use of computer applications for information management.

- **Accurate Electronic Prescription Processing:** Process electronic prescriptions accurately, reducing errors and improving the overall quality of patient care.

- **Optimized Medication Therapy:** Utilize clinical decision support systems to optimize medication therapy, ensuring safe and effective patient outcomes.

- **Enhanced Medication Safety:** Apply computer-based screening tools to enhance medication safety, minimizing the risk of adverse drug events and improving patient well-being.

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Application of Computer in Pharmacy

Units	Syllabus	Hours
1	**Introduction to Computer Applications in Pharmacy** • Overview of computer technology and its significance in pharmacy. • Historical development and milestones in the field of computer applications in pharmacy. • Current trends and future prospects of computer utilization in pharmacy.	2 Hours
2	**Basics of Computer Systems and Software** • Understanding computer hardware, software, and operating systems. • Introduction to common software applications used in pharmacy practice. • Overview of computer network systems and their importance in pharmacy settings.	4 Hours
3	**Pharmacy Information Systems** □ Introduction to pharmacy information systems (PIS). □ Electronic health records (EHR) and their integration with pharmacy practice. □ Overview of medication order entry and computerized physician order entry (CPOE) systems	6 Hours

4	**Drug Information Management and Retrieval** • Introduction to drug information databases and resources. • Techniques for efficient drug information retrieval using computer-based tools. • Evaluation of drug information sources for accuracy, reliability, and relevance. • Introduction to clinical decision support systems (CDSS) in pharmacy practice.	6 hours
5	**Computer Applications in Pharmaceutical Research**	6 hours
6	**Emerging Trends in Computer Applications in Pharmacy** • Exploration of emerging technologies, such as artificial intelligence (AI) and machine learning in pharmacy. • Internet of Things (IoT) applications in pharmacy practice. • Telepharmacy and its role in expanding access to pharmaceutical care. • Ethical considerations and challenges in the use of computers in pharmacy.	6 hours

IQAC In charge	Dr. Atul Bendale
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2021 - 2022

COURSES OFFERED

PATIENT COUNSELLING

Add on / Value added Certificate Courses

Our Program structures offers students the flexibility to enhance their academic experience by enrolling in Two Courses per academic year, with option to take one course per semester. This approach allows students to delve deeper into their areas of interest, diversify their skill set and tailor their learning journey to align with their career aspirations.

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COURSE OBJECTIVES

◆ **Medication Understanding**
Gain a deep understanding of prescribed medications, including their uses, potential side effects, and administration instructions.

◆ **Patient Education**
Learn to educate patients about their health conditions, treatment options, and the importance of medication adherence.

◆ **Addressing Patient Concerns**
Acquire skills to identify and address patient concerns, questions, or misconceptions about their medications or treatment plans.

◆ **Cultural Competence**
Foster cultural competence to adapt counseling approaches based on the diverse backgrounds and preferences of patients.

COURSE OUTCOMES

◆ **Enhanced Patient Understanding**
Demonstrate the ability to effectively communicate complex medical information, leading to improved patient understanding

◆ **Improved Medication Adherence**
Contribute to improved medication adherence through comprehensive patient education and counseling

◆ **Patient-Centered Care**
Implement patient-centered care approaches, considering individual preferences and values in treatment plans.

◆ **Addressed Patient Concerns**
Effectively address patient concerns, contributing to increased patient satisfaction and confidence in their healthcare.

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Patient Counseling

Chapter	Topics	Hours
1	**Introduction to Patient counseling**	2
2	**Parts of Patient counseling**	6
3	**Ethics need to followed for patient counseling**	6
4	**How to protect confidentiality and Privacy of patient**	2
5	**How to conduct a session and place to conduct**	2
6	**Communication skills and body language for patient counselling**	8
7	**Practical Session- Demo for patient counselling**	4

Remark by IQAC	Dr. Atul Bendale
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SANDIP INSTITUTE OF PHARMACEUTICAL SCIENCES

UNDER IQAC SIPS 2021 - 2022

COURSES OFFERED

FIRST AID TRAINING

Add on / Value added Certificate Courses

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COURSE OBJECTIVES

◆ **Emergency Assessment**
Develop the ability to quickly and accurately assess emergency situations, prioritizing actions based on the severity of injuries or illnesses.

◆ **Basic Life Support (BLS) Skills**
Acquire essential skills in Basic Life Support, including cardiopulmonary resuscitation (CPR) and the use of automated external defibrillators (AEDs).

◆ **Wound Care and Injury Management**
Learn effective techniques for wound care, injury stabilization, and the prevention of further harm in various emergency scenarios.

◆ **Recognition of Medical Emergencies**
Recognize common medical emergencies such as heart attacks, strokes, and allergic reactions, and implement appropriate first aid measures.

COURSE OUTCOMES

◆ **Rapid Emergency Response**
Demonstrate the ability to respond rapidly and efficiently to emergency situations, initiating appropriate first aid measures.

◆ **Proficiency in BLS Techniques**
Apply Basic Life Support techniques confidently, including CPR and the use of AEDs, to support individuals experiencing cardiac arrest.

◆ **Skilled Wound and Injury Management**
Effectively manage wounds and injuries, minimizing complications and promoting recovery.

◆ **Prompt Recognition of Medical Emergencies**
Recognize and respond promptly to common medical emergencies, contributing to positive outcomes for the affected individuals.

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COORDINATOR

Dr. Laxmikant B. Borse
Academic Dean

REGISTRATION DETAILS

Dr. V. T. Pathan : 9766294041

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First aid

Sr No.	Content	Hours
1	**Introduction to First Aid** • Importance of first aid- Legal and ethical considerations • Role of a first aider • Personal safety and infection control	02
2	**Basic Life Support** • Recognizing an emergency situation • Assessing the scene and calling for help • Performing cardiopulmonary resuscitation (CPR) Using an automated external defibrillator (AED)	04
3	**Airway Management** • Airway anatomy and obstruction • Techniques for clearing an obstructed airway • Rescue breathing and recovery position	03
4	**Bleeding and Wound Care** • Different types of wounds and bleeding • Controlling bleeding: direct pressure, elevation, and pressure points • Dressing wounds and applying bandages	03
5	**Fractures, Sprains, and Strains** • Types of fractures, sprains, and strains • Initial management and immobilization techniques • Recognizing and managing dislocations	03

6	**Burns and Thermal Injuries** • Classification of burns • First aid for thermal burns, chemical burns, and electrical burns • Managing sunburn and frostbite.	02
7	**Environmental Emergencies** • Heat-related emergencies: heat exhaustion and heatstroke • Cold-related emergencies: hypothermia and frostbite • Allergic reactions and anaphylaxis • Poisoning and overdose management	04
8	**Medical Emergencies** • Seizures and epilepsy • Diabetic emergencies: hypoglycemia and hyperglycemia • Asthma attacks and respiratory distress • Stroke recognition and initial care	04
9	**Musculoskeletal Injuries** • Back and neck injuries • Spinal immobilization techniques • Soft tissue injuries: bruises, strains, and sprains	02
10	**Pediatric First Aid** • Unique considerations for providing first aid to children • Recognizing and managing common pediatric Emergencies • CPR and choking in infants and children	02
11	**Review and Practical Skills** • Recap of key concepts and techniques • Hands-on practice of CPR, bandaging, splinting, etc	01

	• Scenario-based simulations and role-playing Exercises.	

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Signature	

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COURSES OFFERED
COMMUNICATION SKILLS

Add on / Value added Certificate Courses

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UNDER IQAC SIPS
2020 - 2021

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COURSE OBJECTIVES

» **Patient-Centered Communication**
Develop the ability to engage in patient-centered communication, focusing on individual needs, concerns, and preferences.

» **Interprofessional Collaboration Communication**
Enhance communication skills for effective collaboration with other healthcare professionals, ensuring seamless and comprehensive patient care.

» **Health Education Communication**
Acquire skills to communicate health information to patients in a clear and understandable manner, promoting informed decision-making and adherence.

» **Digital Communication Competence**
Develop proficiency in utilizing digital communication tools for patient education, remote consultations, and electronic health records.

COURSE OUTCOMES

» **Patient Satisfaction and Engagement**
Demonstrate improved patient satisfaction through patient-centered communication approaches.

» **Effective Interprofessional Communication**
Contribute to a collaborative healthcare environment by effectively communicating with other healthcare professionals.

» **Informed Patient Decision-Making**
Facilitate informed patient decision-making through clear and accessible health education communication.

» **Proficient Digital Communication**
Utilize digital communication tools effectively for remote consultations, patient education, and efficient electronic health record management.

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Principal
SIPS, Nashik

COORDINATOR
Dr. Laxmikant B. Borse

REGISTRATION DETAILS
Dr. V. T. Pathan : 9766294041

Communication Skills

Units	Syllabus	Hours
1	Introduction to Communications • Importance • Communication Process • Feedback • Importance of Feedback	3
2	Barriers to Communications • Physiological • Physical • Cultural • Language • Gender • Interpersonal • Psychological • Emotional	5
3	Letter Writing • Types of Letters • Friendly Letter • Business Letter • Letter of Application • Letter of Enquiry • Orders & Complaints	2

4	**Oral Presentation** • Presentation • Meeting • Notice • Agenda • Minutes • Dealing with Fears • Techniques of Delivery	3
5	**Correct Usage** • Proper use of Words • Sentence forming • Differentiating pair of words	2
6	**Advertising** • Importance of Advertisement • Types of Media • Use of Language • Graphic Aids • Use of Graph, Music, Videos	4
7	**Interview Skills** • Purpose of Interview • Types of Interviews • Do's & Don'ts • Technique of Handling Question	6
8	**Group Discussion** • Introduction • Communication skills in Discussion • Essentials of Group Discussion • Difference between Group Discussion & Debate	5

• Steps Involved	

Dr.Laxmikant B.Borse

(Academic Dean)

Dr. Anil G.Jadhav

(Principal)

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UNDER IQAC SIPS
2020 - 2021

COURSES OFFERED

COMPUTER APPLICATION IN PHARMACY

Add on / Value added Certificate Courses

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COURSE OBJECTIVES

» **Pharmacy Information Systems Management**
Gain proficiency in utilizing computer applications for efficient management of pharmacy information systems, including drug inventory and patient records.

» **Electronic Prescription Processing**
Develop skills to process electronic prescriptions accurately and securely, ensuring timely and error-free dispensing of medications.

» **Clinical Decision Support Systems Utilization**
Learn how to integrate and utilize clinical decision support systems to enhance pharmaceutical care and optimize medication therapy outcomes.

» **Medication Safety and Screening**
Apply computer programs for medication safety checks, screening for drug interactions, allergies, and dosage errors to prevent adverse effects.

COURSE OUTCOMES

» **Streamlined Pharmacy Operations**
Demonstrate efficiency in pharmacy operations through the effective use of computer applications for information management.

» **Accurate Electronic Prescription Processing**
Process electronic prescriptions accurately, reducing errors and improving the overall quality of patient care.

» **Optimized Medication Therapy**
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Computer Applications

Units	Syllabus	Hours
1	Introduction to Computer Applications in Pharmacy • Overview of computer technology and its significance in pharmacy. • Historical development and milestones in the field of computer applications in pharmacy. • Current trends and future prospects of computer utilization in pharmacy.	2
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	• Techniques for efficient drug information retrieval using computer-based tools. • Evaluation of drug information sources for accuracy, reliability, and relevance. • Introduction to clinical decision support systems (CDSS) in pharmacy practice.	
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Under
IQAC
SIPS

2019-20

COMMUNICATION SKILLS

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Courses Offered
APPLICATIONS OF
COMPUTER IN PHARMACY

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2019-20

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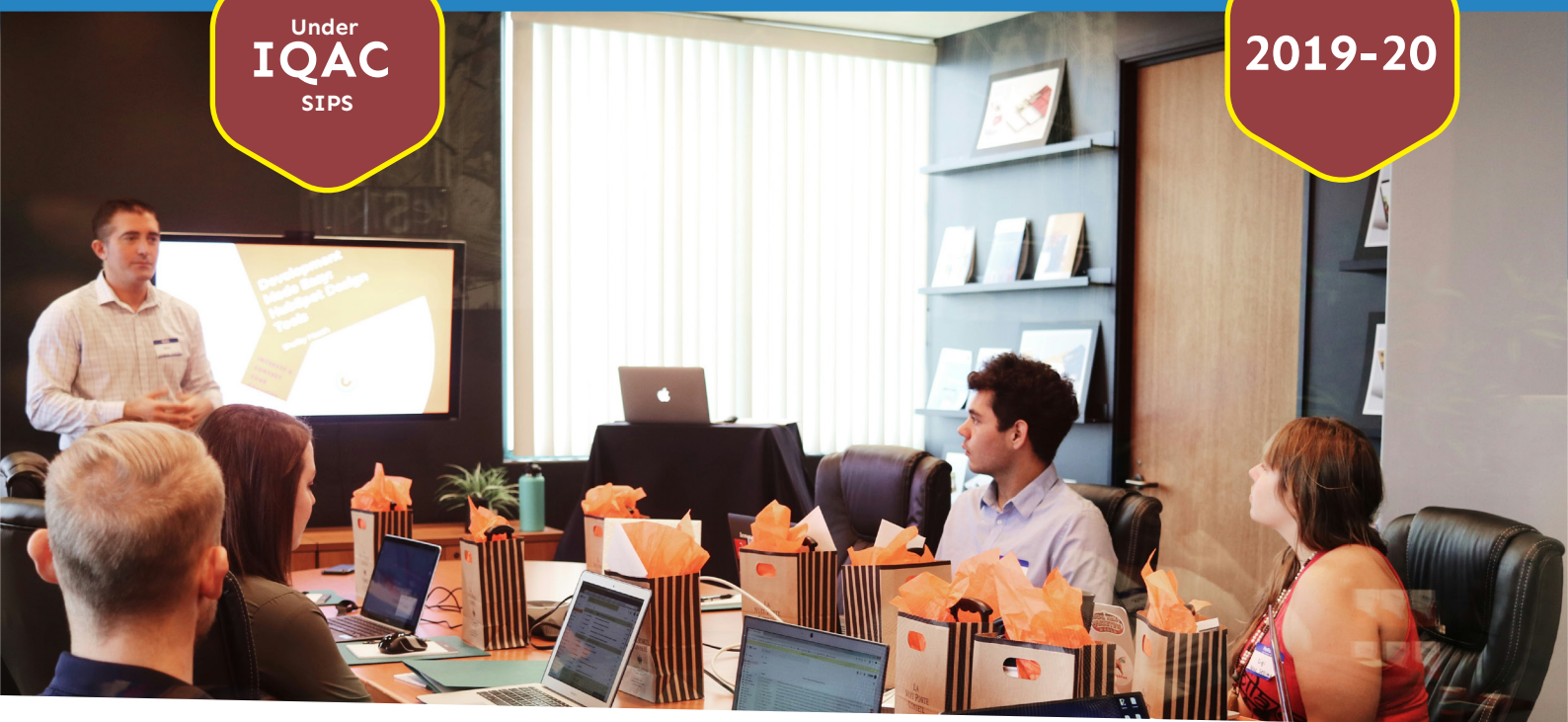**SIPS**
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Courses Offered
ENTREPRENEURSHIP

Under **IQAC** SIPS

2019-20

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COURSE OBJECTIVE

- **Business Conceptualization:** Develop the ability to generate and refine innovative business ideas, considering market needs, trends, and potential opportunities.

- **Business Planning and Strategy:** Acquire skills in creating comprehensive business plans, including market analysis, financial projections, and strategic planning for sustainable growth.

- **Financial Literacy:** Enhance financial literacy to effectively manage budgets, assess financial risks, and make informed decisions for business success.

- **Marketing and Branding:** Learn strategies for effective marketing, branding, and customer engagement to create a strong market presence.

COURSE OUTCOMES

- **Comprehensive Business Plans:** Produce well-researched and strategic business plans, providing a roadmap for successful entrepreneurship.

- **Financial Management Proficiency:** Exhibit proficiency in financial management, making informed decisions for sustainable business growth.

- **Effective Marketing and Branding:** mplement successful marketing and branding strategies, creating a strong and recognizable business identity.

- **Robust Professional Network:** Build a robust professional network, facilitating collaboration, mentorship, and potential opportunities for business expansion.

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Sandip Institute of Pharmaceutical Sciences,
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Web: www.sandipfoundation.org
E-mail: sandipfoundation@gmail.com

Entrepreneurship (2019-20)

Unit	Syllabus	Hours
1	**Introduction to Entrepreneurship** • Definition and Importance • Entrepreneurial Mindset • Types of Entrepreneurs • Creativity and Innovation	5 Hours
2	**Business Idea Generation and Validation** • Identifying Opportunities • Market Research Techniques • Lean Startup Methodology • Idea Validation and Feasibility	6 Hours
3	**Strategic Business Planning** • Elements of a Business Plan • Creating a Value Proposition • Competitive Analysis • Strategic Planning and Goal Setting	5 Hours
4	**Marketing and Branding Strategies** • Basics of Marketing • Building a Brand Identity • Digital Marketing • Customer Relationship Management	4 Hours

5	**Financial Management for Entrepreneurs** • Budgeting and Financial Control • Funding Options • Financial Decision-Making • Scaling and Financial Planning	5 Hours
6	**Legal and Ethical Aspects** • Business Structure and Legal Forms • Intellectual Property • Contracts and Agreements • Ethical Decision-Making	5 Hours

Dr.L.B.Borse

(Academic Dean)

Dr.A.G.Jadhav

(Principal)

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Courses Offered
STRESS MANAGEMENT & HEALTH BENEFITS

Under
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2019-20

Add on / Value added Certificate Courses

Our Program structures offers students the flexibility to enhance their academic experience by enrolling in Two Courses per academic year, with option to take one course per semester. This approach allows students to delve deeper into their areas of interest, diversify their skill set and tailor their learning journey to align with their career aspirations

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COURSE OBJECTIVE

- **Understanding Stress:** Develop a comprehensive understanding of stress, its causes, and its impact on physical and mental health.

- **Stress Identification:** Enhance awareness and skills to identify personal stressors and triggers, both in professional and personal life.

- **Coping Strategies:** Learn and practice effective stress management techniques, including mindfulness, relaxation exercises, and time management.

- **Healthy Lifestyle Habits:** Promote the adoption of healthy lifestyle habits, such as regular exercise, balanced nutrition, and sufficient sleep, as integral components of stress management.

COURSE OUTCOMES

- **Stress Awareness and Reduction:** Demonstrate heightened awareness of personal stressors and the ability to implement strategies for stress reduction.

- **Effective Stress Coping Skills:** Utilize a variety of stress management techniques to cope with daily challenges and maintain overall well-being.

- **Adoption of Healthy Habits:** Embrace and integrate healthy lifestyle habits into daily routines for sustained physical and mental health benefits.

- **Improved Mental Resilience:** Exhibit improved mental resilience, enabling the ability to navigate stressors and maintain a positive outlook.

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Chairman
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Academic Facilitator
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Stress Management and Health Benefits (2019-20)

Unit	Syllabus	Hours
1	**Understanding Stress** • Definition and Types of Stress • Physiological Responses to Stress • Psychological Responses to Stress • Impact of Chronic Stress on Health • Stress and the Immune System • Genetic and Environmental Factors in Stress	6 Hours
2	**Coping Mechanisms** • Adaptive Coping Strategies • Maladaptive Coping Strategies • Cognitive-Behavioral Approaches • Emotional Regulation Techniques • Coping Skills Training	5 Hours
3	**Mindfulness and Relaxation Techniques** • Introduction to Mindfulness • Mindfulness-Based Stress Reduction (MBSR) • Progressive Muscle Relaxation • Guided Imagery • Breathing Exercises	5 Hours
4	**Physical Activity and Stress Reduction** • Exercise and Stress Hormones • Types of Physical Activity for Stress Management	5 Hours

	• Integrating Exercise into Daily Routine • Benefits of Regular Physical Activity • Mind-Body Exercise (e.g., Yoga, Tai Chi)	
5	**Nutrition and Stress** • Impact of Diet on Stress Levels • Stress-Reducing Nutrients • Dietary Habits for Stress Management • Hydration and Stress • Nutritional Supplements for Stress	4 Hours
6	**Social Support and Communication Skills** • Importance of Social Connections • Building and Maintaining Supportive Relationships • Effective Communication for Stress Reduction • Group Support and Therapy • Enhancing Social Support Networks	5 Hours

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Courses Offered

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2018-19

COMMUNICATION SKILLS

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COURSE OBJECTIVE

- **Effective Verbal Communication:** Develop clear and concise verbal communication skills for professional and patient interactions.

- **Active Listening Proficiency:** Cultivate active listening techniques to better understand patient needs and concerns.

- **Professional Written Communication:** Improve written communication skills for prescriptions, labels, and patient education materials.

- **Interprofessional Collaboration:** Foster effective communication with other healthcare professionals for comprehensive patient care.

COURSE OUTCOMES

- **Clear Communication:** Demonstrate improved verbal communication skills for clarity in professional interactions.

- **Enhanced Listening Abilities:** Exhibit active listening skills leading to improved patient-pharmacist relationships.

- **Professional Documentation:** Produce accurate and professional written documentation.

- **Interprofessional Effectiveness:** Engage in effective communication with healthcare professionals for collaborative care.

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(Academic Dean)

Communication Skills

Units	Syllabus	Hours
1	Introduction to Communications • Importance • Communication Process • Feedback • Importance of Feedback	3
2	Barriers to Communications • Physiological • Physical • Cultural • Language • Gender • Interpersonal • Psychological • Emotional	5
3	Letter Writing • Types of Letters • Friendly Letter • Business Letter • Letter of Application • Letter of Enquiry • Orders & Complaints	2

4	Oral Presentation • Presentation • Meeting • Notice • Agenda • Minutes • Dealing with Fears • Techniques of Delivery	3
5	Correct Usage • Proper use of Words • Sentence forming • Differentiating pair of words	2
6	Advertising • Importance of Advertisement • Types of Media • Use of Language • Graphic Aids • Use of Graph, Music, Videos	4
7	Interview Skills • Purpose of Interview • Types of Interviews • Do's & Don'ts • Technique of Handling Question	6
8	Group Discussion • Introduction • Communication skills in Discussion • Essentials of Group Discussion • Difference between Group Discussion & Debate	5

• Steps Involved	

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APPLICATION OF COMPUTER IN PHARMACY

COURSE OBJECTIVE

- **Pharmacy Information Systems:** Understand the role of computer applications in managing and organizing pharmacy information.

- **Electronic Prescription Processing:** Familiarize students with electronic prescription systems and their integration into pharmacy workflows.

- **Clinical Decision Support Systems:** Introduce the use of computer applications for clinical decision support in pharmaceutical care.

- **Drug Interaction and Allergy Checking: Learn the application of computer programs to** identify and manage potential drug interactions and allergies.

COURSE OUTCOMES

- **Efficient Pharmacy Operations:** Demonstrate competence in utilizing pharmacy information systems for streamlined inventory management.

- **Accurate Electronic Prescription Processing:** Process electronic prescriptions accurately and efficiently using relevant computer applications.

- **Informed Clinical Decision-Making:** Utilize computer-based clinical decision support systems to make informed decisions in pharmaceutical care.

- **Enhanced Patient Safety:** Apply computer applications to identify and manage drug interactions and allergies, contributing to improved patient safety.

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Computer Applications

Units	Syllabus	Hours
1	**Introduction to Computer Applications in Pharmacy** • Overview of computer technology and its significance in pharmacy. • Historical development and milestones in the field of computer applications in pharmacy. • Current trends and future prospects of computer utilization in pharmacy.	2
2	**Basics of Computer Systems and Software** • Understanding computer hardware, software, and operating systems. • Introduction to common software applications used in pharmacy practice. • Overview of computer network systems and their importance in pharmacy settings.	4
3	**Pharmacy Information Systems** • Introduction to pharmacy information systems (PIS). • Electronic health records (EHR) and their integration with pharmacy practice. • Overview of medication order entry and computerized physician order entry (CPOE) systems.	6
4	**Drug Information Management and Retrieval** • Introduction to drug information databases and resources.	6

	• Techniques for efficient drug information retrieval using computer-based tools. • Evaluation of drug information sources for accuracy, reliability, and relevance. • Introduction to clinical decision support systems (CDSS) in pharmacy practice.	
5	Computer Applications in Pharmaceutical Research.	6
6	Emerging Trends in Computer Applications in Pharmacy • Exploration of emerging technologies, such as artificial intelligence (AI) and machine learning in pharmacy. • Internet of Things (IoT) applications in pharmacy practice. • Telepharmacy and its role in expanding access to pharmaceutical care. • Ethical considerations and challenges in the use of computers in pharmacy.	6

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Courses Offered

ENVIRONMENTAL SCIENCES

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COURSE OBJECTIVE

- **Foundational Knowledge:** Develop a comprehensive understanding of key concepts and principles in environmental sciences, including ecosystems, biodiversity, climate change, and sustainability.

- **Research and Analysis Skills:** Acquire skills to conduct environmental research, collect and analyze data, and interpret findings to address real-world environmental challenges.

- **Interdisciplinary Understanding:** Foster an interdisciplinary perspective by integrating knowledge from biology, chemistry, geology, and social sciences to comprehend complex environmental issues.

- **Environmental Policy Awareness:** Gain insight into environmental policies and regulations at local, national, and global levels, and understand their impact on conservation and sustainable development.

COURSE OUTCOMES

- **Comprehensive Understanding:** Demonstrate a deep understanding of foundational environmental science concepts and their interconnectedness.

- **Research Competence:** Conduct independent environmental research, collect and analyze data, and present findings effectively.

- **Interdisciplinary Application:** Apply interdisciplinary knowledge to address complex environmental challenges, promoting holistic problem-solving.

- **Informed Environmental Advocacy:** Utilize knowledge of environmental policies to advocate for sustainable practices and contribute to conservation efforts

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Environmental Science

Units	Syllabus	Hours
1	**Unit-I** • The Multidisciplinary nature of environmental studies • Natural Resources Renewable and non-renewable resources: Natural resources and associated problems a) Forest resources; b) Water resources; c) Mineral resources	5
2	**Unit II** • Food resources • Energy resources • Land resources • Role of an individual in conservation of natural resources	5
3	**Unit-III** • Ecosystems Concept of an ecosystem Structure and function of an ecosystem. Introduction, types, characteristic features, structure and function of the ecosystems.	5

4	Unit-IV • Forest ecosystem; Grassland ecosystem; Desert ecosystem; • Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)	5
5	Unit- V Environmental Pollution: Air pollution	5
6	Unit- V Water pollution; Soil pollution	5

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Nutrition And Human Health

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COURSE OBJECTIVE

- **Fundamental Nutrition Knowledge:** Acquire a solid understanding of the principles of nutrition, including macronutrients, micronutrients, and their roles in human health.

- **Dietary Assessment Skills:** Develop skills in assessing dietary patterns, nutritional needs, and creating personalized nutrition plans for individuals and communities.

- **Nutritional Biochemistry:** Understand the biochemical processes involved in nutrient metabolism and their impact on human health.

- **Health Promotion Through Nutrition:** Learn how to promote health and prevent nutrition-related diseases through appropriate dietary practices and lifestyle choices.

COURSE OUTCOMES

- **Clear Communication:** Demonstrate improved verbal communication skills for clarity in professional interactions.

- **Enhanced Listening Abilities:** Exhibit active listening skills leading to improved patient-pharmacist relationships.

- **Professional Documentation:** Produce accurate and professional written documentation.

- **Interprofessional Effectiveness:** Engage in effective communication with healthcare professionals for collaborative care.

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Nutrition & Public Health (2018-19)

Unit	Syllabus	Hours
1	**Fundamentals of Nutrition** • Basics of nutrition • Macronutrients and micronutrients • Dietary guidelines and recommendations	6 Hours
2	**Nutritional Biochemistry and Metabolism** • Digestion and absorption • Nutritional biochemistry • Metabolism of macronutrients	4 Hours
3	**Nutritional Assessment and Disorders** • Methods of nutritional assessment • Dietary assessment tools • Nutritional disorders and their impact	6 Hours
4	**Diet and Chronic Diseases** • Connection between diet and chronic diseases • Role of nutrition in disease prevention and management • Nutrition and cardiovascular health	4 Hours

5	**Public Health Nutrition**	6 Hours
	• Community nutrition programs • Nutrition education and promotion • Challenges in promoting healthy nutrition at the population level	
6	**Special Diets and Emerging Trends**	4 Hours
	• Therapeutic diets for specific conditions • Nutraceuticals and functional foods • Current trends and future directions in nutrition	

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ROLE OF PHARMACIST IN PUBLIC HEALTH

COURSE OBJECTIVE

- **Health Promotion and Education:** Educate the public on health-related topics, including medication management, preventive care, and healthy lifestyle choices.

- **Disease Prevention and Immunization:** Participate in public health campaigns for disease prevention, including promoting immunizations and providing education on contagious diseases.

- **Medication Management and Adherence:** Enhance medication adherence through counseling, education, and monitoring, contributing to better public health outcomes.

- **Collaboration with Healthcare Teams:** Collaborate with other healthcare professionals to improve patient care, especially in areas such as chronic disease management and public health initiatives.

COURSE OUTCOMES

- **Increased Health Literacy:** Contribute to improved health literacy by providing clear and accessible information on medications and health-related topics.

- **Improved Immunization Rates:** Contribute to increased immunization rates through active involvement in vaccination campaigns and public education.

- **Enhanced Medication Adherence:** Improve overall medication adherence rates in the community through effective counseling and monitoring.

- **Effective Collaboration:** Demonstrate effective collaboration with healthcare teams, fostering comprehensive and patient-centered care.

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Role of Pharmacist in Public Health (2018-19)

Unit	Syllabus	Hours

1	**Introduction to Public Health**
	Overview of Public Health
	  - Definition and scope of public health
	  - Historical perspective
	  - Key public health principles
	Role of Pharmacist in Public Health
	- Introduction to the pharmacist's role in public health
	  - Public health and pharmaceutical care
	  - Importance of public health in pharmacy practice
		4 Hours

2	Public Health Systems and Policies
	Public Health Systems
	  - Structure and organization of public health systems
	  - Government agencies and non-governmental organizations in public health
	Health Policies and Regulations
	  - Understanding health policies
	  - Role of pharmacist in policy development
		4 Hours

3	Disease Prevention and Health Promotion
	Epidemiology and Disease Surveillance
	  - Basics of epidemiology
	  - Pharmacist's role in disease surveillance
	Immunization and Vaccination Programs
	  - Overview of immunization
	  - Pharmacists' involvement in vaccination
		6 Hours

	programs
	: Health Education and Promotion
	   - Strategies for health education
	   - Communication skills for pharmacists
	Chronic Disease Management
	   - Pharmacist's role in managing chronic diseases	

4	Community Engagement and Research
	Community Pharmacy Services
	   - Community pharmacy as a public health hub
	   - Patient counseling and education
	Medication Therapy Management (MTM)
	   - Introduction to MTM
	   - Pharmacist's role in optimizing medication therapy
	Research in Public Health Pharmacy
	   - Importance of research in public health
	   - Pharmacist's involvement in research projects
		6 Hours

5	Global Health and Emerging Issues
	: Global Health Issues
	   - Overview of global health challenges
	   - International collaborations in public health
	Emerging Public Health Threats
	   - Responding to pandemics and outbreaks
	   - Pharmacist's role in emergency preparedness
		6 Hours

6	Professional Development and Review
	Professional Development**
	   - Continuing education for pharmacists
	   - Certification opportunities in public health
	Syllabus Review and Q&A
		4 Hours

	- Recap of key concepts - Question and answer session - Feedback and evaluation	

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