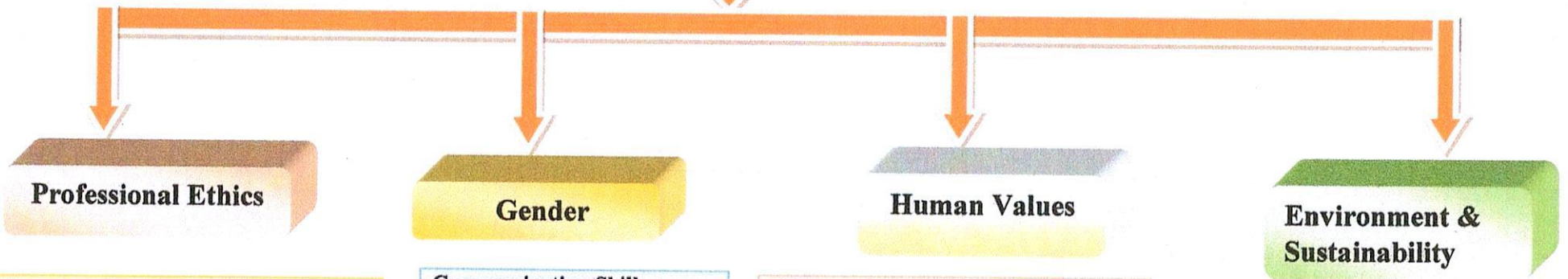
Institution Integrates Crosscutting Issues



Professional Ethics

- Pharmaceutical Analysis - I
- Pharmaceutical Inorganic Chemistry
- Pharmaceutical Organic Chemistry – I
- Computer Applications in Pharmacy
- Pharmaceutical Jurisprudence
- Pharmaceutical Quality Assurance
- Pharmacy Practice
- Biostatistics and Research Methodology
- Social and Preventive Pharmacy
- Pharmacovigilance
- Experimental Pharmacology

Gender

- Communication Skills
- Cell and Molecular Biology
- Cosmetic Science

Human Values

- Human Anatomy and Physiology - I
- Pharmaceutics - I
- Communication Skills
- Remedial Biology
- Human Anatomy and Physiology – II
- Biochemistry
- Pathophysiology

Environment & Sustainability

- Environmental Sciences
- Social and Preventive Pharmacy
- Quality Control and Standardizations of Herbals
- Computer Aided Drug Design
- Advanced Instrumentation Techniques
- Dietary Supplements and Nutraceutical

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1.3.1 Institution Integrates Crosscutting Issues Relevant to Professional Ethics, Gender, Human Values, Environment, and Sustainability into the Curriculum

Professional Ethics

1. Pharmaceutical Analysis – I

Professional ethics in **Pharmaceutical Analysis - I** is essential to maintain **data integrity, patient safety, and public trust**. Ethical analysts must ensure **accurate reporting, compliance with standards, and transparent handling of errors** to uphold the credibility of pharmaceutical sciences. Below are some key professional ethics considerations relevant to pharmaceutical analysis, based on the syllabus:

1. Accuracy, Precision and Ethical Data Reporting

In pharmaceutical analysis, accuracy and precision are crucial for ensuring drug quality and safety. Ethical professionals must report data honestly, without manipulation or falsification, to maintain scientific integrity.

Example:

- A researcher should not alter experimental results to match expected outcomes.
- A pharmacist must ensure the correct concentration of a drug is measured and reported without errors or biases.

2. Errors in Analysis and Ethical Responsibility

Errors in pharmaceutical analysis can lead to incorrect dosages, contamination, or ineffective drugs, affecting patient safety. Ethical responsibility demands that professionals identify, correct, and prevent errors to ensure drug efficacy.

Example:

- If an analyst discovers an error in standardizing a solution, they must report and correct it instead of ignoring or covering it up.
- Ethical pharmaceutical companies conduct multiple tests to confirm drug stability rather than manipulating results for faster approval.

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3. Pharmacopoeia and Ethical Compliance

Pharmacopoeias (e.g., IP, USP, BP) set standardized guidelines for drug testing and quality control. Ethical pharmaceutical professionals must strictly adhere to these standards to prevent the production of substandard or counterfeit drugs.

Example:

- A manufacturer cannot use cheaper, impure ingredients that do not meet pharmacopoeial standards just to cut costs.
- An analyst must not ignore deviations in a batch test; they must follow proper procedures for re-evaluation.

4. Ethical Considerations in Limit Tests for Impurities

Limit tests ensure that drugs do not contain toxic levels of impurities. Pharmaceutical companies must ethically disclose impurities and take corrective actions rather than concealing unsafe levels.

Example:

- A company finds an impurity level exceeding the pharmacopoeial limit. Instead of ignoring it, they must report it, investigate the cause, and take corrective actions.
- Falsifying impurity test results to pass quality control is unethical and can lead to public health risks.

5. Ethical Use of Indicators and Reagents in Titrations

Acid-base, redox, and complexometric titrations require precise measurement and ethical handling of chemicals, indicators, and reagents. Analysts must not intentionally alter endpoint observations to get a desired result.

Example:

- If an endpoint is unclear, a researcher should repeat the titration rather than manipulating the observation to match expected results.
- Using expired reagents without proper validation is unethical and can lead to false conclusions.

6. Ethical Issues in Gravimetric and Redox Titrations

Gravimetric and redox titrations require careful weighing, precipitation, and oxidation-reduction reactions. Ethical analysis demands that professionals follow correct methods and not tamper with results.

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Example:

- An analyst must not adjust weight measurements or alter oxidation states artificially to make calculations appear correct.
- Reporting incorrect redox titration results can lead to wrong drug potency estimations, affecting patient health.

7. Integrity in Electrochemical Methods of Analysis

Electrochemical methods like conductometry, potentiometry, and polarography require ethical handling of instruments, data, and interpretations. Researchers must avoid biases in selecting data points or misrepresenting conclusions.

Example:

- A pharmacist using potentiometry to determine a drug's pH must record actual values rather than adjusting them to fit expected outcomes.
- In polarography, professionals should report all peaks in a voltammogram, even if some indicate unexpected impurities.

2. Pharmaceutical Inorganic Chemistry

Ethical considerations in Pharmaceutical Chemistry - I are crucial to ensuring drug safety, quality, and compliance with pharmacopoeial standards. Below are some key professional ethics topics relevant to the syllabus:

1. Ethical Compliance in Limit Tests for Impurities

The limit tests for impurities (Chloride, Sulphate, Iron, Arsenic, Lead, and Heavy Metals) ensure that toxic contaminants in pharmaceutical substances remain within permissible limits. Ethical handling of these tests is vital to prevent health hazards and maintain drug quality.

Ethical Considerations:

- Accurate execution of limit tests without altering impurity results.
- Avoiding dilution or manipulation to pass regulatory standards.
- Proper documentation and reporting of impurity levels.

2. Ethical Use of Buffers in Pharmaceutical Systems

Buffers maintain pH stability in drug formulations, ensuring efficacy and patient safety. Ethical responsibility includes following correct calculations and preparation methods.

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Ethical Considerations:

- Avoiding miscalculations that affect drug stability.
- Ensuring proper labeling and storage of buffer solutions.
- Reporting any deviations that could impact drug efficacy.

3. Integrity in Electrolyte Therapy and ORS Formulation

Electrolytes like Sodium chloride, Potassium chloride, Calcium gluconate, and ORS are critical in replacement therapy. Ethical handling ensures accuracy in formulation and safety for patients.

Ethical Considerations:

- Ensuring correct composition and concentration in ORS preparation.
- Preventing fraudulent claims about electrolyte benefits.
- Avoiding contamination and ensuring sterility of solutions.

4. Ethical Responsibility in Dental Products

Fluoride-containing compounds in dentifrices and desensitizing agents help prevent dental caries. Ethical concerns arise in correct formulation and patient safety.

Ethical Considerations:

- Ensuring proper fluoride concentration to avoid toxicity.
- Avoiding misleading advertising about dental product benefits.
- Reporting any adverse effects observed in fluoride-based treatments.

5. Ethical Conduct in Gastrointestinal Agents and Antimicrobials

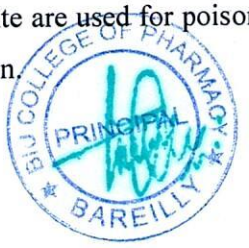
Compounds like antacids, acidifiers, cathartics, and antimicrobials require precise formulation and adherence to safety standards.

Ethical Considerations:

- Avoiding incorrect claims about efficacy and side effects.
- Ensuring antimicrobial agents are used responsibly to prevent resistance.
- Reporting any toxic effects in antacids and acidifiers.

6. Ethical Handling of Poisons and Antidotes

Substances like Sodium thiosulphate, Activated charcoal, and Sodium nitrite are used for poison treatment. Ethical handling ensures correct dosage and timely administration.



Ethical Considerations:

- Ensuring antidotes are administered based on scientific evidence.
- Avoiding misinformation about poison treatment.
- Proper storage and labeling of hazardous substances.

7. Ethical Use of Radiopharmaceuticals

Radioactive substances like Sodium Iodide I-131 are used in diagnostics and treatment. Ethical concerns include safe handling, disposal, and regulatory compliance.

Ethical Considerations:

- Following strict safety protocols for radiation exposure.
- Preventing misuse or unauthorized access to radioactive substances.
- Ensuring accurate measurement and reporting of radioactivity levels.

3. Pharmaceutical Organic Chemistry – I

Ethical considerations in Pharmaceutical Organic Chemistry - I are crucial for ensuring scientific integrity, safe drug development, and compliance with regulatory standards. Below are some key professional ethics topics relevant to the syllabus:

1. Ethical Nomenclature and Structural Representation

The classification, nomenclature, and isomerism of organic compounds provide a standardized way to name and identify chemical substances. Ethical concerns arise in accurate representation and proper usage of these names in pharmaceutical documentation.

Ethical Considerations:

- Ensuring correct IUPAC naming of compounds to prevent misinterpretation.
- Avoiding mislabeling or ambiguous naming that could lead to errors in drug synthesis.
- Proper representation of structural isomers to ensure accurate chemical analysis.

2. Ethical Handling of Alkanes, Alkenes, and Dienes

Organic reactions involving alkanes, alkenes, and conjugated dienes play a crucial role in pharmaceutical synthesis. Ethical concerns arise in accurate reaction documentation and environmental impact considerations.

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Ethical Considerations:

- Ensuring correct reaction mechanisms are followed without falsifying data.
- Avoiding improper disposal of halogenated alkanes, which may cause environmental harm.
- Reporting reaction yields accurately to prevent misleading research outcomes.

3. Integrity in Alkyl Halides and Alcohols Analysis

Alkyl halides and alcohols are widely used in drug formulation and solvent systems. Ethical handling ensures safety in usage and adherence to qualitative testing standards.

Ethical Considerations:

- Avoiding fraudulent claims about solvent purity and stability.
- Ensuring safe handling and disposal of toxic halogenated compounds like chloroform and iodoform.
- Proper documentation of qualitative test results to prevent errors in formulation.

4. Ethical Conduct in Carbonyl Compound Studies

Aldehydes and ketones are key intermediates in pharmaceutical synthesis. Ethical concerns include accurate reporting of condensation reactions and nucleophilic additions.

Ethical Considerations:

- Avoiding falsification of reaction outcomes in aldol condensation and Cannizzaro reactions.
- Ensuring safe handling of toxic carbonyl compounds like formaldehyde and chloral hydrate.
- Proper storage and documentation of reactive carbonyl intermediates.

5. Ethical Responsibility in Carboxylic Acids and Amines (Unit-5)

Carboxylic acids and amines are crucial in drug design and formulation. Ethical considerations involve ensuring correct acidity/basicity measurements and responsible use.

Ethical Considerations:

- Avoiding manipulation of acidity/basicity data to favor research conclusions.
- Proper disposal of acidic and basic waste to prevent environmental pollution.



- Ensuring accurate qualitative testing for carboxylic acids and amines to maintain formulation integrity

4. Computer Applications in Pharmacy

Ethical considerations in Computer Applications in Pharmacy ensure the security, accuracy, and responsible use of digital technologies in pharmaceutical research and practice. Below are some key professional ethics topics relevant to the syllabus:

1. Ethical Use of Number Systems & Information Systems

Digital systems rely on binary, decimal, octal, and hexadecimal representations for calculations and data processing. Ethical concerns arise in ensuring accurate computations and responsible software development.

Ethical Considerations:

- Avoiding manipulation of data conversions that could lead to errors in pharmaceutical software.
- Ensuring ethical software development practices in data flow diagrams and system design.
- Protecting patient data during the feasibility analysis and project lifecycle.

2. Ethics in Web Technologies & Database Management

Web technologies like HTML, XML, CSS, MySQL, and MS Access are used to store and retrieve pharmaceutical data. Ethical concerns involve data security, patient confidentiality, and responsible database management.

Ethical Considerations:

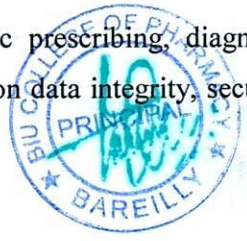
Ensuring data privacy in pharmacy drug databases.

Preventing unauthorized access to sensitive pharmaceutical information.

Avoiding misuse of web technologies to create misleading or fraudulent medical information.

3. Ethical Applications of Computers in Pharmacy

Computers play a vital role in drug information storage, electronic prescribing, diagnostic systems, and hospital pharmacy management. Ethical concerns focus on data integrity, security, and automation reliability.



Ethical Considerations:

- Ensuring accuracy in pharmacokinetic models used for drug design.
- Maintaining ethical standards in barcode medicine identification to prevent counterfeit drugs.
- Avoiding errors in electronic prescriptions that could harm patients.

4. Ethics in Bioinformatics & Vaccine Discovery

Bioinformatics is crucial for drug discovery and vaccine development. Ethical issues arise in genomic data handling, AI-driven research, and intellectual property.

Ethical Considerations:

- Protecting genetic data privacy and preventing misuse in biopharmaceuticals.
- Ensuring transparency in vaccine discovery to maintain public trust.
- Avoiding biased AI models in drug target identification.

5. Ethical Data Analysis in Preclinical Research

Computers are widely used for Chromatographic Data Analysis (CDS), Laboratory Information Management (LIMS), and Text Information Management (TIMS). Ethical concerns include data falsification, compliance, and reproducibility.

Ethical Considerations:

- Avoiding manipulation of chromatographic data in drug testing.
- Ensuring compliance with regulatory guidelines in laboratory information management.
- Maintaining transparency in preclinical research to uphold scientific integrity.

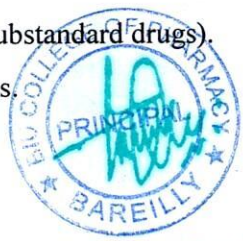
5.Pharmaceutical Jurisprudence

Ethical considerations in Pharmaceutical Laws ensure compliance, patient safety, and responsible practice in drug manufacturing, distribution, and usage. Below are key ethical aspects related to the syllabus:

1. Ethics in the Drugs and Cosmetics Act, 1940 & Rules

Ethical Considerations:

- Preventing unethical import & manufacture of drugs (counterfeit, substandard drugs).
- Ensuring ethical labeling and advertising to avoid misleading claims.
- Upholding patient safety by enforcing drug safety laws.



- Avoiding corruption in licensing and drug approval processes.

Example: A pharmaceutical company mislabeling a drug to claim higher efficacy violates consumer rights and ethical standards.

2. Ethics in Pharmacy Act, 1948 & Other Regulations

Ethical Considerations:

- Ensuring fair registration of pharmacists without bias.
- Maintaining education standards for pharmacists per PCI regulations.
- Preventing misuse of narcotics under the NDPS Act.
- Regulating alcoholic drug preparations ethically to prevent abuse.

Example: A pharmacist dispensing narcotic drugs without a proper prescription is both illegal and unethical.

3. Ethics in Drug Pricing & Animal Welfare

Ethical Considerations:

- Preventing unethical price hikes on essential medicines (DPCO & NPPA).
- Ensuring humane treatment of animals in research (CPCSEA guidelines).
- Regulating deceptive drug advertisements to protect consumers.

Example: Selling life-saving drugs at inflated prices during a health crisis is a violation of pharmaceutical ethics.

4. Ethics in Pharmaceutical Practice & Legislations

Ethical Considerations:

- Upholding pharmacist's ethical responsibilities towards patients & the profession.
- Ensuring patient confidentiality under the Right to Information Act.
- Protecting intellectual property rights while ensuring fair access to medicines.
- Adhering to professional ethics in trade & medical collaborations.

Example: A pharmacist refusing to dispense emergency contraceptives due to personal beliefs violates patient rights and professional ethics.

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6.Pharmaceutical Quality Assurance

Ethical practices in Quality Assurance (QA) and Quality Management are critical to ensuring the safety, efficacy, and quality of pharmaceutical products. Below are some key ethical aspects aligned with the syllabus:

1. Ethics in Quality Assurance & Quality Management

Ethical Considerations:

- Commitment to Quality: QA and GMP ensure that drugs are consistently manufactured to meet required safety and efficacy standards. Professionals must follow ethical standards in designing and implementing quality systems to ensure patient safety.
- Transparency in Processes: ICH guidelines emphasize global harmonization to improve product quality, which requires honesty and accuracy in testing and reporting.
- Ethical Compliance in QbD: Implementing Quality by Design (QbD) principles involves careful planning, scientific methods, and validation, ensuring the patient's best interest is at the forefront of every decision.
- ISO Certifications: Gaining ISO 9000 and 14000 registration requires ethical responsibility in documenting practices, compliance, and environmental impact, ensuring sustainable practices.
- Example: A manufacturer claiming to follow ICH Stability Testing Guidelines but failing to perform proper stability testing is engaging in misleading and unethical practices that compromise patient safety.

2. Ethics in Organization, Personnel, and Premises

Ethical Considerations:

- Training and Hygiene of Personnel: Ethically responsible personnel training ensures adherence to GMP and quality standards. Personal hygiene and professional records are crucial in maintaining a safe and sterile environment.
- Premises Design: Pharmaceutical companies must design facilities and equipment with ethical intent to prevent contamination and maintain environmental control. Maintaining sterile areas and sanitation is essential for preventing patient harm.
- Equipment and Raw Materials: Ethical procurement involves selecting equipment and raw materials that meet the highest standards, ensuring product safety and quality.



Example: A pharmaceutical company that neglects sanitation standards in their plant or fails to adequately train personnel may endanger patient health, violating ethical codes.

3. Ethics in Quality Control & Laboratory Practices

Ethical Considerations:

- Accurate Testing: Ensuring accuracy and integrity in quality control tests (containers, closures, raw materials) to guarantee drug safety is essential in pharmaceutical ethics.
- Good Laboratory Practices (GLP): Adherence to GLP ensures that non-clinical laboratory studies are conducted ethically with valid results. Protocol for testing must be maintained, and records must be accurate and truthful.
- Test and Control Articles: Ethical practice involves maintaining accountability of control substances, records, and final reports, which ensures scientific integrity.

Example: If a company tampered with testing results to cut costs or push a product to market faster, they would not only be breaking laws but also committing serious ethical violations.

4. Ethics in Handling Complaints and Documentation

Ethical Considerations:

- Complaint Management: Handling complaints ethically means addressing them promptly, evaluating causes, and preventing future incidents. Transparency in the recall process ensures safety and maintains public trust.
- Document Maintenance: Ethical documentation practices ensure traceability, accountability, and the accuracy of pharmaceutical processes. Proper record-keeping in batch formulae, SOPs, and quality audits ensures compliance and safety.

Example: Ignoring customer complaints or mishandling product recalls can jeopardize patient health and damage the company's reputation and trust with regulators.

5. Ethics in Calibration, Validation, and Warehousing

Ethical Considerations:

Calibration & Validation: Ethical calibration and method validation are crucial to ensuring the accuracy of testing equipment and the reliability of drug quality.

- Good Warehousing Practices (GWP): Maintaining ethical standards in warehousing ensures that materials are stored properly to prevent contamination and ensure drug



stability. Ethical handling also involves correct inventory management to avoid loss or wastage.

Example: Deliberately skipping calibration procedures or using unverified methods in testing could result in defective products entering the market, posing serious health risks.

7.Pharmacy Practice

1. Ethics in Adverse Drug Reaction (ADR) Reporting and Management

Ethical Considerations:

- ADR Reporting: Pharmacists have an ethical responsibility to report adverse drug reactions promptly and accurately. Ensuring that all ADR reports are truthful and complete, whether voluntary or through structured systems like spontaneous case reports, is essential for patient safety.
- Patient Confidentiality: While reporting ADRs, maintaining patient confidentiality is crucial. Only necessary information should be shared, respecting privacy laws and regulations.
- Managing ADRs: Ethical responsibility also involves taking immediate action to mitigate harm, inform patients, and advise healthcare providers on appropriate interventions.

Example: A pharmacist identifying an ADR but failing to report it or withholding information about the severity of the reaction can lead to continued harm to patients and may result in further, preventable adverse effects.

2. Ethics in Medication Adherence and Counseling

Ethical Considerations:

- Ensuring Understanding: Pharmacists have an ethical obligation to educate patients thoroughly about their medications, including possible side effects, and the importance of adhering to prescribed regimens.
- Respecting Patient Autonomy: While encouraging adherence, pharmacists should respect a patient's right to make their own informed decisions regarding their treatment.

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- Addressing Non-Adherence: If a pharmacist identifies non-adherence, ethical actions include understanding the underlying causes (e.g., cost, side effects, misunderstanding) and providing solutions to overcome these barriers without judgment.

Example: If a pharmacist notices a patient not adhering to their medication regimen but chooses not to address it, the patient's condition could worsen, which could have been prevented through proactive communication and ethical intervention.

3. Ethics in Drug Information Services and Patient Counseling

Ethical Considerations:

- Accurate Information Sharing: Pharmacists are ethically obligated to provide clear, unbiased, and up-to-date drug information to patients and healthcare providers. This includes informing patients of potential drug interactions, side effects, and precautions.
- Informed Consent: When dispensing medications, ensuring that patients understand the purpose and potential risks involved is an essential ethical practice. Pharmacists should ensure the patient consents to the treatment plan based on the information provided.
- Pharmacist-Patient Relationship: Maintaining trust and open communication is vital. The pharmacist should not prioritize company or financial interests over the patient's well-being.

Example: If a pharmacist fails to disclose a known drug interaction or gives incorrect medication advice, it may lead to adverse consequences for the patient, eroding trust in the healthcare system and the pharmacist's credibility.

4. Ethics in Handling Prescribed Medication Orders

Ethical Considerations:

- Interpreting Orders Accurately: Pharmacists are responsible for interpreting prescribed medication orders correctly to ensure safe and effective drug use.
- Communication with Prescribers: Ethical pharmacists should communicate openly with prescribers in case of discrepancies or concerns regarding medication orders to prevent patient harm.
- Patient Safety and Autonomy: While verifying prescriptions, pharmacists must ensure that patients' safety is prioritized and that any concerns about the prescription are addressed before dispensation.

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Example: A pharmacist who notices a prescribing error but does not communicate with the physician may allow an unsafe medication regimen to be administered, potentially leading to serious patient harm or injury.

5. Ethics in Pharmaceutical Inventory and Drug Store Management

Ethical Considerations:

- Proper Stock Management: Ethically managing stock ensures that drugs are stored appropriately and are within expiration dates, avoiding the sale or use of expired products.
- Transparency in Procurement: Ethical procurement practices involve choosing suppliers based on quality and not personal interests, ensuring the highest standards for patient safety.
- Record-Keeping: All records regarding purchases, stock levels, and sales must be maintained accurately to comply with regulations and ensure accountability.

Example: If a drugstore mismanages inventory or sells expired medications without proper checks, it can result in harm to patients and regulatory violations, damaging both the reputation of the pharmacy and public trust.

8.Biostatistics and Research Methodology

Introduction to Statistics and Biostatistics in Pharmaceuticals

Ethical Considerations:

- Accurate Data Collection: Ethical responsibility lies in gathering and analyzing data accurately without manipulation. In pharmaceutical research, misrepresentation of statistical data can lead to incorrect conclusions, affecting patient safety.
- Confidentiality and Privacy: Patient data used in biostatistical analysis should be anonymized and stored securely to ensure confidentiality.
- Transparency in Reporting: Researchers must transparently report all statistical results, including negative findings, to maintain the integrity of the research and avoid publication bias.



Example: If statistical data in clinical trials is selectively reported to show positive results, it can mislead healthcare providers and patients, potentially resulting in ineffective or unsafe treatments.

Regression and Probability in Pharmaceutical Statistics

Ethical Considerations:

- Honest Representation of Probability: Pharmacists and researchers must use probability and regression models ethically, ensuring they provide realistic expectations of drug performance and safety.
- Bias Prevention in Sampling: Ensuring that all types of populations are equally represented in studies to avoid bias is essential for generating reliable, generalizable results.
- Data Integrity in Hypothesis Testing: The validity of hypothesis testing relies on maintaining integrity during sample collection and analysis. Any intentional alteration of data to fit a hypothesis undermines trust in pharmaceutical research.

Non-Parametric Tests and Research Design

Ethical Considerations:

- Fairness in Non-Parametric Testing: When conducting non-parametric tests, researchers must be objective and use appropriate tests for the given data to avoid drawing false conclusions.
- Ethical Design of Experiments: Ethical experimentation requires clear and transparent methodology, particularly when conducting observational and experimental studies, ensuring participant safety and informed consent.
- Plagiarism and Originality: Researchers must maintain ethical standards by ensuring all research is original and properly cited to avoid plagiarism.

Statistical Analysis in Industrial and Clinical Trials

Ethical Considerations:

- Integrity in Analysis: Statistical methods like regression modeling and hypothesis testing must be applied ethically to ensure the validity of trial results.



- Full Disclosure in Clinical Trials: Researchers should disclose all statistical methods used, including software tools like SPSS or R, to ensure the transparency of the research process.
- Confidentiality in Clinical Data: Patient data used in industrial and clinical trials must be protected and handled in accordance with ethical guidelines to prevent misuse.

Experimental Design and Optimization Techniques

Ethical Considerations:

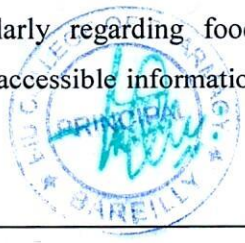
- Patient Safety in Experimental Design: In factorial design and response surface methodology, patient safety should always be the top priority. Ethical research ensures that all experiments are designed with patient well-being in mind.
- Responsible Data Use: The use of optimization techniques in experimental design should aim for efficiency and safety, avoiding any strategies that prioritize speed or cost over patient safety.
- Ethical Communication of Results: The results of optimization and experimental designs must be communicated ethically, including any limitations of the methods used.

8.Social and Preventive Pharmacy

Health, Disease, and Social Determinants of Health

Ethical Considerations:

- Equity in Health Access: Ethical public health practices emphasize equal access to healthcare services, particularly when addressing social causes of disease and social problems of the sick. Efforts to prevent and control diseases must focus on providing resources and care to marginalized and underserved populations.
- Respect for Cultural Sensitivity: Healthcare providers must be culturally sensitive when addressing the socio-cultural factors related to health and disease. Understanding the beliefs and practices of different communities can help in providing better care and avoiding stigmatization.
- Accurate Health Education: Ethical health education, particularly regarding food, nutrition, and disease prevention, requires providing accurate and accessible information to communities without exploiting their vulnerability.



Preventive Medicine and Disease Control

Ethical Considerations:

- Transparency in Disease Reporting: Ethical prevention and control efforts require transparency in reporting outbreaks such as cholera, SARS, or malaria, to ensure the public is informed and prepared.
- Informed Consent for Preventive Measures: For prevention programs such as vaccination or drug addiction treatment, informed consent is essential to respect individuals' autonomy and ensure their participation is voluntary.
- Fair Distribution of Healthcare Resources: Disease prevention efforts must prioritize fairness, ensuring that resources (e.g., vaccines, medications) are distributed to those who are most at risk or in greatest need, without discrimination.

Example: In the event of a malaria outbreak, ethical distribution of antimalarial drugs must consider the most vulnerable communities and ensure that those who are most at risk are prioritized.

National Health Programs and Their Impact

Ethical Considerations:

- Inclusivity in Health Programs: National health programs, such as HIV/AIDS or TB control, must be inclusive, ensuring that marginalized groups (e.g., rural populations, minorities) have access to the interventions and services.
- Accountability in Program Outcomes: It is ethically crucial that health programs report their outcomes transparently and make adjustments as needed to improve effectiveness. Failure to do so may harm public trust and the effectiveness of future initiatives.
- Confidentiality and Stigma Prevention: Programs addressing sensitive health issues like mental health or HIV must respect patient confidentiality and work to reduce stigma associated with these conditions.

Example: The HIV/AIDS control program must operate with the highest level of confidentiality, and healthcare workers must be trained to offer non-judgmental care to prevent discrimination against affected individuals.



National Health Interventions for Specific Groups

Ethical Considerations:

- Focus on Vulnerable Populations: National health programs such as those targeting mothers, children, or the elderly must ethically prioritize the most vulnerable populations, ensuring that interventions are accessible and appropriate for their specific needs.
- Informed Participation in Health Programs: Individuals must be fully informed about the health programs available to them, particularly in programs like family welfare or tobacco control, so they can make informed decisions about their participation.
- Ethical Communication in Health Promotion: Health promotion initiatives must communicate information in a way that respects individual autonomy and supports informed choices without coercion.

Example: In the National Programme for the Health Care of the Elderly, ethical considerations must ensure that elderly individuals are informed about their healthcare options and are not pressured into unwanted treatments.

Community Health Services and School Health

Ethical Considerations:

- Equity in Access to Community Health Services: Community services in rural, urban, and school health must be delivered equitably, ensuring that both urban and rural populations have access to necessary healthcare resources.
- School Health and Privacy: School health programs must balance the need for health education with respect for student privacy. For example, when addressing mental health or sexual health, students' confidentiality must be maintained.
- Public Health Education without Coercion: Health promotion efforts, particularly in schools or communities, should be voluntary, with education focusing on empowerment rather than coercion.

Example: The implementation of the National Urban Health Mission should consider ensuring that urban slum dwellers have equal access to health services as other residents, without any form of bias or discrimination.



09.Pharmacovigilance

1. Ethical Reporting and Documentation of Adverse Drug Reactions (ADRs)

- **Transparency:** Pharmacovigilance requires honest and complete reporting of ADRs to regulatory bodies, avoiding suppression of negative data that could harm patients.
- **Confidentiality:** Patient identities should be protected when reporting ADRs to ensure privacy and encourage reporting without fear.
- **Timely Reporting:** Delays in reporting ADRs can lead to prolonged patient exposure to harmful drugs, violating ethical principles of beneficence (doing good) and non-maleficence (avoiding harm).

2. Ethical Considerations in Clinical Trials and Post-Marketing Surveillance

- **Informed Consent:** Patients participating in clinical trials or post-marketing surveillance must be fully informed about potential risks, benefits, and alternatives before consenting.
- **Non-Exploitation:** Vulnerable populations (such as those from low-income backgrounds) should not be disproportionately recruited for trials without proper safeguards.
- **Data Integrity:** Any falsification or selective reporting of clinical trial data is unethical and could lead to unsafe drugs reaching the market.

3. Ethical Use of Data in Pharmacovigilance Systems

- **Avoiding Bias in Data Analysis:** Pharmaceutical companies and regulators must analyze ADR data objectively without conflicts of interest influencing decisions.
- **Access to Information:** Healthcare professionals and the public should have access to updated safety information about drugs to make informed decisions.
- **Responsible Use of Artificial Intelligence (AI) and Big Data:** AI-driven pharmacovigilance systems should be designed to avoid bias and ensure ethical handling of patient data.

4. Ethical Responsibilities of Healthcare Professionals in Pharmacovigilance

Duty to Report ADRs: Pharmacists, doctors, and nurses have an ethical responsibility to report any suspected ADRs, even if they are uncertain about causality.

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- Patient-Centered Approach: Healthcare professionals should educate patients about possible side effects and encourage them to report any adverse reactions.
- Avoiding Conflict of Interest: Healthcare professionals should not be influenced by pharmaceutical companies to downplay ADRs in exchange for financial incentives.

5. Global Ethical Considerations in Pharmacovigilance

- Equitable Access to Safety Data: Developing countries should have the same access to drug safety data as developed nations, preventing a situation where high-risk drugs continue to be used in lower-income regions.
- Ethical Withdrawal of Unsafe Drugs: If a drug is banned in one country due to safety concerns, it should not continue to be sold in other countries without full disclosure.
- Cultural Sensitivity in Pharmacovigilance Practices: ADR reporting methods should consider cultural and literacy barriers to encourage participation from diverse

10.Experimental Pharmacology

Ethical Considerations in Experimental Pharmacology

1. Ethical Use of Animals in Pharmacological Research

3R Principle (Replacement, Reduction, Refinement):

- **Replacement:** Using alternatives like cell cultures or computer simulations instead of animals whenever possible.
- **Reduction:** Using the minimum number of animals necessary to obtain reliable results.
- Refinement: Ensuring minimal pain, distress, and suffering by using proper anesthesia and humane euthanasia methods.
- **Regulatory Compliance:** Researchers must follow guidelines such as CPCSEA (India), IACUC (USA), and OECD guidelines for ethical animal research.
- **Necessity and Justification:** Experiments should be justified, ensuring that animal use is essential for scientific advancement and not for redundant studies.

2. Ethical Considerations in Human Trials

Informed Consent: Participants must be fully informed about the study, potential risks, and their right to withdraw at any time.



- **Non-Maleficence:** The study must not expose participants to unnecessary risks or harm.
- **Fair Subject Selection:** Vulnerable populations (children, prisoners, economically disadvantaged individuals) should not be exploited for research.
- **Transparency and Honesty:** Researchers must disclose any conflicts of interest and publish both positive and negative results.

3. Plagiarism and Data Integrity in Experimental Pharmacology

- **Avoiding Fabrication and Falsification:** Experimental results should not be manipulated to show desired outcomes.
- **Proper Citation and Acknowledgment:** Credit must be given to original researchers, and plagiarism in publications must be strictly avoided.
- **Ethical Data Reporting:** Negative results should also be reported to prevent duplication of research and misleading conclusions.

4. Ethics in Drug Discovery and Development

- **Access and Affordability:** Newly discovered drugs should be made accessible to patients in need, rather than being priced excessively.
- **Avoiding Biopiracy:** Traditional medicinal knowledge from indigenous communities should be ethically sourced and properly credited.
- **Sustainable Research Practices:** Use of environmentally friendly solvents and disposal methods for chemicals used in experiments should be prioritized.

5. Ethical Considerations in Pharmacokinetics and Toxicology Studies

- **Minimizing Human and Animal Exposure to Toxic Substances:** Only essential toxicity studies should be conducted, using alternative models wherever possible.
- **Ethical Dosage Selection:** Drug doses used in experiments should be scientifically justified to prevent unnecessary overdose and suffering in test subjects.
- **Regulatory Compliance:** Following GLP (Good Laboratory Practices) and ethical guidelines ensures credibility and patient safety.



Gender

1. Communication Skills

Introduction

Effective communication is essential for **personal, professional, and social interactions**. However, **gender differences and biases** can create barriers in communication. Understanding how **language, body language, and communication styles** differ across genders helps promote **inclusive, respectful, and effective communication**.

1. Gender and Barriers to Communication

- **Gender-Based Language Barriers**: Addressing how societal norms shape gendered language and speech patterns.
- **Physiological and Psychological Barriers**: Understanding how gender influences emotional expression and communication preferences.
- **Cultural Barriers and Gender Norms**: Recognizing how different cultures perceive gender roles in communication.

2. Gender and Communication Styles

- **Verbal vs. Non-Verbal Communication**: Exploring how men and women use body language, tone, and speech patterns differently.
- **Gender-Sensitive Communication Styles**: Understanding direct, considerate, systematic, and spirited styles across genders.
- **Breaking Stereotypes in Face-to-Face Communication**: Encouraging equal participation and assertiveness for all genders.

3. Gender and Listening Skills

- **Gender Bias in Listening**: Understanding why men and women may interpret messages differently.
- **Encouraging Inclusive Active Listening**: Teaching self-awareness and respect for different perspectives.
- **Gender-Neutral Written Communication**: Avoiding gendered language in professional and academic writing.

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4. Gender and Professional Communication

- **Gender Bias in Interviews**: Recognizing how interviewers may have unconscious gender biases and how to overcome them.
- **Confidence in Public Speaking**: Addressing gendered expectations in speech delivery and leadership communication.
- **Overcoming Gender Stereotypes in the Workplace**: **Encouraging** equal opportunities for leadership roles.

5. Gender and Group Discussions

- **Encouraging Equal Participation**: Addressing gender dynamics where one gender may dominate discussions.
- **Gender Sensitivity in Debates and Discussions**: Promoting respectful and inclusive conversations.
- **Do's and Don'ts of Gender-Inclusive Communication**: Creating safe spaces for all genders to express opinions.

2. Cell and Molecular Biology

Cell and Molecular Biology plays a crucial role in understanding the biological basis of gender and sex differences. Advancing gender inclusivity in scientific research ensures **equal representation, ethical research practices, and unbiased medical applications**. By addressing **gender disparities in genetics, molecular biology, and biomedical sciences**, we can promote **fair and inclusive healthcare advancements**.

1. Gender Considerations in Cellular Research

- **Sex-Based Differences in Cell Biology**: Understanding how biological sex impacts cellular processes, including hormonal regulation and gene expression.
- **Ethical and Inclusive Research Practices**: Ensuring equal representation of male and female cell lines in laboratory studies to avoid biased results.
- **Genetic and Environmental Interactions**: Studying how gender identity and biological sex interact with genetics and molecular pathways.



2. Gender and Molecular Genetics

- **Genetic Basis of Sex and Gender Differences**: Exploring how X and Y chromosomes contribute to biological sex while acknowledging gender as a social construct.
- **RNA and Hormonal Regulation**: Investigating how mRNA expression varies in male and female bodies due to hormonal differences.
- **Inclusive Genomic Research**: Ensuring genetic studies consider diverse populations, including non-binary and intersex individuals.

3. Protein Synthesis and Gender Differences

- **Sex-Specific Protein Expression**: Understanding how estrogen and testosterone influence protein pathways differently in males and females.
- **Gender-Based Medicine**: Developing personalized treatments based on how different sexes metabolize proteins and drugs.
- **Bias-Free Cellular Research**: Avoiding male-biased studies in drug testing and disease modeling, ensuring equal benefits for all genders.

4. Gender and Cellular Activities

- **Sex Differences in the Cell Cycle**: Studying how hormones affect mitosis, meiosis, and cellular aging.
- **Transgenics and Gender Representation**: Ensuring fair use of male and female models in transgenic research.
- **Gender-Sensitive Cancer Research**: Understanding how breast, ovarian, and prostate cancers are influenced by molecular and genetic factors.

5. Gender, Cell Signaling, and Biomedical Research

- **Gender-Specific Drug Responses**: Investigating how cell signaling pathways react differently in males and females to medications.
- **Hormonal Impact on Cell Signaling**: Studying how testosterone, estrogen, and progesterone influence cellular responses.
- **Breaking Gender Bias in Biomedical Applications**: Ensuring clinical trials include diverse genders to create effective and inclusive treatments.



3. Cosmetic Science

Cosmetic science has historically been gendered, with products and marketing often catering to specific **male or female stereotypes**. However, modern advancements emphasize **gender inclusivity**, ensuring that **skincare, haircare, and personal care products** are accessible and beneficial for all individuals, regardless of gender identity.

1. Neutral Cosmetic Formulations

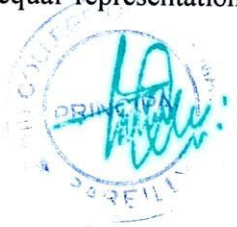
- **Breaking Gender Norms in Cosmetics**: Moving away from "for men" and "for women" labels to embrace gender-neutral skincare and haircare.
- **Safe and Inclusive Ingredients**: Ensuring that cosmetic products cater to all skin types without gender-based differentiation.
- **Regulatory Compliance and Equal Representation**: Promoting fair product testing across all gender identities.

2. Inclusivity in Skincare and Haircare Products

- **Skin Types Over Gender**: Shifting focus from gendered marketing to skin concerns like oily, dry, or sensitive skin.
- **Haircare for All**: Developing shampoos, conditioners, and hair treatments that focus on scalp health and hair type rather than gender labels.
- **Unisex Oral Care**: Moving beyond pink vs. blue packaging and focusing on effective solutions for dental health.

3. Gender-Neutral Sun Protection and Herbal Cosmetics

- **SPF for Everyone**: Sunscreens should not be gendered; everyone needs sun protection to prevent skin damage and aging.
- **Herbal Solutions Beyond Gender Stereotypes**: Using Aloe, Turmeric, Neem, and Clove for holistic care rather than marketing them as "for men" or "for women."
- **Transparent and Ethical Testing for All Genders**: Ensuring equal representation in clinical trials and product efficacy studies.



4. Breaking Stereotypes in Cosmetic Evaluation and Hygiene Products

- **Personal Care for All**: Soaps, deodorants, and shampoos should focus on hygiene and skin benefits rather than gendered fragrances.
- **Gender-Inclusive Testing and Evaluation**: Using scientific methods like sebumeter and corneometer for all skin types, not just "men's rough skin" or "women's soft skin."
- **Equal Access to Quality Personal Care Products**: Ensuring that all genders have access to safe, high-quality hygiene products.

5. Addressing Gender-Based Beauty Standards and Cosmetic Concerns

- Challenging Unrealistic Beauty Norms: Encouraging self-acceptance and confidence beyond gendered beauty expectations.
- **Addressing Common Skin and Hair Issues for All**: Treating dandruff, acne, and wrinkles as universal concerns rather than gender-specific problems.
- **Inclusive Marketing and Representation**: Showcasing diverse gender identities in cosmetic advertisements and promotional materials.



Human Values

1. Human Anatomy and Physiology - I

Human Anatomy and Physiology explores the **structure and function of the human body**, emphasizing the **interconnection of different systems**. Understanding these biological processes helps promote **respect for life, empathy, and ethical responsibility**, which are essential human values.

1. Respect for Life and Human Dignity Homeostasis and Life Processes:

Teaches the importance of maintaining **balance for survival**, reinforcing respect for life.

- **Cellular Organization and Communication**: Highlights how cells work together harmoniously, promoting the value of teamwork and unity.
- **Tissue Classification and Function**: Encourages an appreciation for the complexity of life and the importance of every body part.

2. Empathy and Compassion in Healthcare Structure and Functions of Skin: Understanding pain, healing, and sensitivity fosters empathy for those suffering from skin disorders or burns.

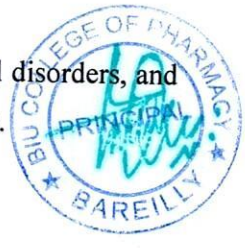
- **Skeletal & Muscular Systems**: Recognizing how mobility impacts quality of life builds compassion for physically challenged individuals.
- **Joints and Movement**: Encourages awareness of age-related issues like arthritis, promoting respect for the elderly.

3. Ethical Responsibility and Human Welfare Blood Donation and Transfusion Ethics: Reinforces voluntary blood donation as a life-saving act and teaches ethical concerns in blood transfusion.

- **Rh Factor and Genetic Inheritance**: Raises awareness about ethical considerations in prenatal care and genetic counseling.
- **Lymphatic System & Immunity**: Encourages care and support for immunocompromised individuals.

4. Emotional Sensitivity and Mental Well-being

Central & Peripheral Nervous System: Emphasizes mental health, neurological disorders, and the importance of empathy for those struggling with neurodegenerative conditions.



- **Special Senses (Eye, Ear, Nose, Tongue)**: Raises awareness about disabilities like blindness and hearing impairment, encouraging inclusivity and support.

5. Responsibility for a Healthy Lifestyle

Cardiovascular System: Understanding heart health and blood pressure regulation promotes responsibility for a healthy lifestyle.

- **Digestive System & Nutrition**: Teaches the importance of balanced nutrition and hydration, linking it to public health.
- **Kidney & Urinary System**: Emphasizes water conservation, kidney health, and organ donation ethics.

6. Reproductive Ethics and Social Awareness

Reproductive System & Sex Hormones: Encourages awareness of reproductive health, gender equality, and responsible family planning.

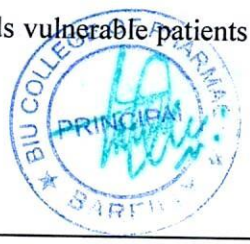
- **Introduction to Genetics**: Raises ethical discussions on genetic testing, cloning, and hereditary diseases, ensuring responsible scientific progress.
- **Introduction to Genetics**: Raises ethical discussions on genetic testing, cloning, and hereditary diseases**, ensuring** responsible scientific progress**.**

2. Pharmaceutics - I

Pharmaceutics, the science of preparing and dispensing drugs, plays a crucial role in **healthcare and human well-being**. The ethical and responsible practice of pharmacy promotes **human values such as compassion, integrity, social responsibility, and respect for life**.

1. Ethical Responsibility in Pharmacy

- **History of Pharmacy in India**: Understanding the evolution of pharmacy highlights the responsibility of pharmacists in improving public health.
- **Pharmacopoeias (IP, BP, USP, Extra Pharmacopoeia)**: Emphasizes **the** importance of quality standards**,** ensuring safe and effective medicines for society.
- **Handling Prescriptions & Errors**: Reinforces honesty, precision, and ethical responsibility in drug dispensing to prevent medical errors.
- **Posology & Pediatric Dosing**: Promotes care and sensitivity towards vulnerable patients like children, reinforcing values of compassion and safety.



2. Accuracy and Accountability in Pharmaceutical Calculations

- **Correct Measurement & Calculations**: Promotes precision and responsibility in medicine formulation, avoiding errors that could harm patients.
- **Solubility Enhancement & Drug Effectiveness**: Ensures that patients receive optimal drug therapy, **promoting** commitment to patient well-being.

3. Ensuring Safety and Efficacy in Medicine Preparation

- Preparation of Gargles, Mouthwashes, Syrups, and Enemas: Ensures hygiene, health, and patient safety in liquid formulations.
- **Suspensions & Emulsions**: Addresses stability issues to ensure effective drug delivery, reinforcing scientific integrity and ethical formulation practices.

4. Patient-Centered Approach in Pharmacy

- **Suppositories for Different Patient Needs**: Encourages respect for patient dignity and customized drug delivery, especially for children and elderly patients.
- **Identifying Pharmaceutical Incompatibilities**: Highlights professional responsibility in preventing harmful drug interactions, ensuring patient safety.

5. Commitment to Skin Health and Effective Drug Delivery

- **Preparation of Ointments, Creams, and Gels**: Ensures safe and effective treatments for skin conditions, supporting patient comfort and well-being.
- **Dermal Penetration & Drug Effectiveness**: Reinforces the importance of scientific knowledge to improve drug absorption and patient outcomes.

3. Communication Skills

Communication is a fundamental aspect of human interaction, influencing personal relationships, professional success, and societal harmony. Ethical communication is grounded in **honesty, integrity, empathy, respect, and cultural sensitivity**, ensuring that messages are conveyed with **truthfulness and fairness**. Integrating human values into communication fosters **trust, cooperation, and inclusivity**, making interactions more meaningful and effective.

This document explores the intersection of **ethical communication and human values**, focusing on **honesty, empathy, active listening, ethical writing, and respectful discussions** across various communication settings.

1. Honesty and Integrity in Communication

Ethical communication starts with honesty and integrity. Being truthful, transparent, and responsible in conversations prevents misunderstandings and builds trust.

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- **Avoiding Misinformation**: Sharing accurate information ensures that individuals make informed decisions, avoiding deception or manipulation.
- **Empathy and Respect in Conversations**: Considering the emotions, experiences, and cultural backgrounds of others leads to more meaningful and respectful interactions.
- **Non-Verbal Communication & Cultural Sensitivity**: Body language, gestures, and facial expressions play a key role in conveying emotions and intent. Understanding diverse cultural norms prevents misinterpretations.
- **Overcoming Barriers to Communication**: Gender, language, emotional, and cultural barriers can hinder effective communication. Ethical communicators actively work to bridge these gaps through patience, understanding, and adaptability.

2. Active Listening and Respect for Others

Active listening is an essential human value that demonstrates respect, patience, and understanding in communication.

- **Becoming an Active Listener**: Good listeners focus attentively, avoid interruptions, and ensure they understand before responding.
- **Handling Difficult Conversations with Respect**: Disagreements are natural, but they should be managed with calmness and consideration rather than conflict.
- **Self-Awareness in Communication**: Ethical communicators reflect on their own biases and prejudices, ensuring that their messages are fair and inclusive.

3. Ethical and Effective Written Communication

Writing is a powerful tool that can inform, persuade, and connect people. Ethical written communication upholds human values by ensuring clarity, inclusivity, and respect.

- **Using Clear, Respectful, and Inclusive Language**: Writing should avoid discriminatory or offensive language and be accessible to diverse audiences.
- **Avoiding Misinterpretations in Written Communication**: Tone and context matter in writing. Writers should ensure their messages are not misleading or offensive.
- **Balancing Formality and Friendliness in Professional Writing**: Ethical writing maintains a balance between professionalism and approachability, making communication effective without being overly rigid or casual.

4. Human Values in Interviews and Public Speaking

Interviews and public speaking require confidence, truthfulness, and fairness. Ethical communication in these settings ensures that messages are conveyed authentically and respectfully.



- **Interview Ethics: Respect, Truthfulness, and Fairness**: Candidates and interviewers must be honest, unbiased, and considerate during interviews.
- **Handling Fear and Nervousness with Self-Confidence**: Public speaking anxiety can be managed with preparation, practice, and self-belief.
- **Presenting Ideas with Clarity and Integrity**: Effective speakers structure their messages clearly and stick to the truth, avoiding exaggeration or misleading information.

5. Human Values in Group Discussions

Group discussions require participants to be open-minded, respectful, and fair to ensure productive conversations.

- **Respecting Different Opinions and Perspectives**: Ethical communicators acknowledge that diverse viewpoints exist and engage in discussions with an open mind.
- **Practicing Fair and Inclusive Communication**: Everyone should have a chance to speak without feeling excluded or judged.
- **Avoiding Interruptions and Promoting Constructive Dialogue**: Active listening, patience, and thoughtful responses foster healthy discussions rather than arguments.

4. Biochemistry

Biochemistry, as the study of chemical processes within and related to living organisms, plays a crucial role in understanding human health, disease mechanisms, and therapeutics. Ethical considerations and human values in biochemistry ensure responsible research, patient safety, and moral integrity in scientific advancements.

Ethical Considerations in Biomolecules and Bioenergetics

- **Integrity in Research**: Honest reporting of experimental data related to biomolecules ensures reliability in scientific progress.
- **Ethical Sourcing of Biological Samples**: Collection of proteins, lipids, and nucleic acids for research must follow ethical guidelines and informed consent.
- **Sustainable Bioenergetics**: Responsible use of biochemical energy concepts in industries and healthcare supports environmental sustainability.

Human Values in Carbohydrate and Biological Oxidation Studies

- **Ethical Considerations in Diabetes Research**: Fair access to treatments and medications ensures equity in healthcare.

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- **Respect for Life in Metabolic Research**: Studies on metabolic disorders should aim for the well-being of all individuals, avoiding discrimination based on genetic predisposition.
- **Scientific Honesty in Enzyme and Drug Development**: Transparency in reporting findings on metabolic pathways prevents misinformation.

Lipid Metabolism and Human Health

- **Public Health and Nutritional Awareness**: Ethical responsibility to educate society about cholesterol-related diseases like atherosclerosis and obesity.
- **Fairness in Drug Pricing and Accessibility**: Ensuring affordability of lipid-lowering drugs and nutritional supplements.
- **Genetic Ethics in Metabolic Disorders**: Addressing concerns related to genetic testing and discrimination in employment or insurance.

Nucleic Acid Metabolism and Genetic Information Transfer

- **Genetic Privacy and Confidentiality**: Protection of individuals' genetic data in medical and research settings.
- **Ethical Implications of Genetic Modification**: Balancing scientific progress with moral responsibility in DNA-based therapeutics.
- **Human Dignity in Genetic Studies**: Respecting individual autonomy in genetic testing and therapy.

Enzymes, Amino Acid Metabolism, and Therapeutic Applications

- **Compassion in Enzyme Therapy**: Ensuring that life-saving treatments for enzyme deficiencies are accessible and affordable.
- **Honest Use of Biochemical Research**: Preventing misuse of enzyme inhibitors and other biochemical agents in unethical ways.
- **Ethical Management of Metabolic Disorders**: Providing fair treatment to individuals with conditions such as phenylketonuria or jaundice without stigma.

5. Pathophysiology

Pathophysiology is the study of how diseases develop and affect the human body. While it primarily focuses on biological processes, it also provides valuable lessons about human values. Just as the body strives to maintain homeostasis, humans must seek balance in their personal and professional lives. The resilience of cells in injury and adaptation mirrors the strength, perseverance, and ethical responsibilities that individuals uphold in their daily interactions. By

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understanding diseases and their impact, we can cultivate empathy, responsibility, and a deeper appreciation for health, well-being, and social ethics.

Understanding Cell Injury and Adaptation with Human Values

- Homeostasis and Life Balance: The body's ability to maintain stability reflects the importance of balance in personal and social life, where we must manage relationships, emotions, and responsibilities wisely.
- Cellular Adaptation and Resilience: The ability of cells to adapt to stress teaches resilience, perseverance, and problem-solving, essential human values for overcoming life's challenges.
- Inflammation and Healing: Just as the body initiates inflammation to heal, individuals should practice forgiveness, patience, and reconciliation in resolving conflicts.
- Atherosclerosis and Ethical Lifestyle Choices: Lifestyle-related diseases like atherosclerosis highlight self-discipline, personal responsibility, and ethical decision-making in maintaining a healthy life.

Human Values in Cardiovascular, Respiratory, and Renal Health

- Hypertension and Mental Peace: High blood pressure often results from stress, reinforcing the value of inner peace, emotional stability, and self-care.
- Environmental Ethics in Respiratory Health: Conditions like asthma are worsened by pollution, emphasizing the need for environmental responsibility, sustainability, and collective well-being.
- Empathy in Renal Disease: Chronic kidney conditions require long-term care, teaching compassion, patience, and support for those in need.

Human Values in Haematological, Endocrine, and Nervous Disorders

- Anemia and Societal Responsibility: Nutritional deficiencies reflect social inequalities, reminding us of the values of equity, fairness, and community welfare.
- Diabetes and Self-Discipline: Managing diabetes requires dietary control and lifestyle modifications, reinforcing self-discipline and accountability for one's health.
- Mental Health Awareness: Disorders like depression and schizophrenia highlight the importance of empathy, non-judgment, and emotional support for mental well-being.

Ethical Perspectives in Digestive, Bone, and Cancer Pathophysiology

- Gastrointestinal Diseases and Lifestyle Ethics: Conditions like peptic ulcers and liver disease emphasize the moral responsibility of maintaining a healthy diet and avoiding harmful habits.

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- Bone Health and Aging with Dignity: Osteoporosis and arthritis highlight the value of caring for the elderly and respecting their dignity.
- Cancer and Ethical Research: Cancer treatment and drug development must be rooted in integrity, honesty, and ethical scientific practices.

Social Responsibility in Infectious and Sexually Transmitted Diseases

- Public Health and Collective Responsibility: Diseases like tuberculosis and meningitis highlight the importance of community health, vaccination, and ethical responsibility in preventing disease spread.
- HIV/AIDS and Social Stigma: Sexually transmitted diseases teach us about compassion, awareness, and eliminating discrimination against affected individuals.
- Preventive Healthcare as a Moral Duty: Encouraging hygiene, vaccinations, and responsible behavior promotes human welfare and ethical medical practices.

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Environment & Sustainability

1. Environmental Sciences

Environmental sustainability is a **global concern** that requires an **interdisciplinary approach** involving science, society, and individual responsibility. The balance between **natural resource consumption** and **ecosystem conservation** is essential to ensure a healthy planet for future generations. Addressing environmental issues such as **deforestation, pollution, and climate change** involves collective efforts from individuals, communities, and policymakers.

This document explores the **cross-cutting theme of environment and sustainability** through the lens of **natural resources, ecosystems, and pollution**, highlighting the **role of individuals in conservation and sustainable practices**.

Natural Resources and Sustainability

The Multidisciplinary Nature of Environmental Studies

- Environmental issues **interconnect** various fields, including biology, chemistry, geography, economics, and ethics. A multidisciplinary approach helps in understanding complex environmental challenges and finding sustainable solutions.

Sustainable Management of Natural Resources

- **Renewable and non-renewable resources** are the foundation of life and economic development. However, overexploitation leads to environmental degradation. The role of sustainability is to ensure that resources are used efficiently without compromising future availability.
- **Forest resources**: Sustainable forestry, afforestation, and conservation policies.
- **Water resources**: Efficient water management, rainwater harvesting, and pollution control.
- **Mineral resources**: Reducing mining waste, recycling metals, and adopting green mining practices.
- **Food resources**: Sustainable agriculture, organic farming, and reducing food waste.
- **Energy resources**: Transition to renewable energy (solar, wind, hydro), energy conservation.
- **Land resources**: Soil conservation, urban planning, and reducing land degradation.

Role of Individuals in Conservation

- Reducing waste and promoting reuse and recycling.

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- Conserving water and energy in daily life.
- Supporting eco-friendly products and sustainable agriculture.
- Raising awareness about environmental protection.

Ecosystems and Ecological Balance

- **Understanding Ecosystems for Sustainability**
- Ecosystems are self-sustaining units where living organisms interact with their environment. Sustainable management of ecosystems ensures biodiversity conservation and ecological balance.

Types of Ecosystems and Sustainability Measures

- **Forest ecosystem**: Conservation of forests to prevent deforestation and habitat loss.
- **Grassland ecosystem**: Preventing overgrazing and promoting soil conservation.
- **Desert ecosystem**: Combating desertification through afforestation and sustainable land use.
- **Aquatic ecosystems**: Preventing water pollution, maintaining marine biodiversity, and conserving wetlands.

Key Strategies for Sustainability

- Biodiversity conservation to maintain ecosystem health.
- Eco-restoration to revive degraded ecosystems.
- Sustainable land use planning for urban and rural development.

Environmental Pollution and Sustainability Solutions

- **Major Environmental Pollutants and Their Impact**

  Environmental pollution poses a serious threat to sustainability by degrading natural resources and harming human health.

1. **Air pollution**: Caused by industrial emissions, vehicular exhaust, and deforestation.
   - Solution: Adoption of clean energy, emission control, afforestation.
2. **Water pollution**: Due to industrial waste, sewage disposal, and plastic pollution.
   - Solution: Wastewater treatment, pollution control measures, banning single-use plastics.
3. **Soil pollution**: Resulting from excessive pesticide use, industrial waste, and deforestation.
   - Solution: Organic farming, proper waste disposal, and afforestation.

Sustainability Measures to Reduce Pollution

- Promoting eco-friendly industries and waste management.



4. Hygiene and Health

- **Personal Hygiene and Environmental Factors**: Water pollution and sanitation affect hygiene-related diseases.
- **Avoidable Habits for Better Health**: Reducing air pollution and avoiding processed foods improve overall well-being.
- .

  Sustainable environmental practices enhance public health outcomes.

5. Preventive Medicine and Environmental Factors

Role of Environment in Disease Prevention

Environmental factors influence the spread, prevention, and control of diseases:

- **Waterborne Diseases**: Cholera, malaria, and dengue thrive in poor sanitation.
- **Airborne Diseases**: Influenza, SARS, and pneumonia are aggravated by air pollution.
- **Vector-Borne Diseases**: Climate change expands mosquito-borne disease zones (malaria, chikungunya, filariasis).
- **Lifestyle Diseases**: Urbanization and pollution increase hypertension, diabetes, and cancer cases.
- **Substance Abuse**: Industrial pollution and urban stress contribute to drug and alcohol abuse.
- Clean environments and sustainable practices reduce disease burden.

National Health Programs and Environmental Impact

Government health programs integrate environmental concerns into disease prevention strategies:

Major Public Health Initiatives

- **HIV and AIDS Control**: Sanitation and nutrition improve patient immunity.
- **TB and Respiratory Diseases**: Air quality control reduces lung diseases.
- **Leprosy Control**: Clean living conditions reduce transmission risks.
- **National Mental Health Program**: Green spaces and pollution-free environments support mental well-being.
- **Immunization and Disease Surveillance**: Sustainable sanitation prevents infectious disease outbreaks.

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- Implementing strict environmental laws and policies.
- Encouraging public participation in pollution control and conservation efforts.

2. Social and Preventive Pharmacy

Environmental sustainability plays a **crucial role** in public health, disease prevention, and overall well-being. The **quality of air, water, food, and sanitation** directly affects human health, making environmental issues a **cross-cutting concern** in health and disease management. A sustainable environment ensures **clean air, safe drinking water, nutritious food, and proper sanitation**, which are essential for **preventing diseases, reducing healthcare burdens, and promoting long-term health benefits**. This document explores the **interconnection between environment, sustainability, and public health**.

Health, Disease, and Environmental Influences

1. Concept of Health and Disease

- **Definition and Evaluation of Public Health**: Public health depends on environmental factors like clean air, safe water, and sanitation.
- **Prevention and Control of Diseases**: Sustainable practices like waste management and pollution control reduce disease prevalence.
- **Social Causes of Diseases**: Environmental degradation, urbanization, and climate change contribute to disease outbreaks.

2. Social and Health Education

- **Food, Nutrition, and Health**: Climate change impacts food production and nutritional availability.
- **Balanced Diet and Malnutrition**: Sustainable agriculture ensures food security and prevents malnutrition.
- **Vitamin and Nutritional Deficiencies**: Poor soil and water quality affect crop nutrition, leading to deficiencies.

3. Sociology and Health

- **Impact of Urbanization on Health**: Overcrowding, pollution, and inadequate sanitation increase disease risks.
- **Poverty and Health**: Lack of access to clean resources leads to health disparities.

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- ✓ **Integrating environmental policies into health programs strengthens public health outcomes.**

Environmental Sustainability in Maternal, Child, and Elderly Health

Key Health Intervention Programs

- **Maternal and Child Health**: Clean air, water, and nutrition reduce infant mortality.
- **Family Welfare and Population Control**: Sustainable family planning ensures resource availability.
- **Tobacco Control**: Clean air initiatives support smoking cessation efforts.
- **Malaria Prevention**: Climate action reduces breeding grounds for mosquitoes.
- **Elderly Health Care**: Pollution control reduces respiratory and cardiac diseases among the elderly.
- **WHO's Role in Sustainable Health**: Global environmental policies support disease prevention.
- A clean environment promotes healthier mothers, children, and elderly populations.

Community Health, Urbanization, and Sustainability
Community-Based Environmental Health Programs

- **Rural and Urban Health Services**: Sustainable infrastructure ensures clean water and sanitation.
- **Sanitation and Hygiene Initiatives**: Waste management and pollution control prevent infections.
- **National Urban Health Mission**: Green urban planning reduces stress-related illnesses.
- **School Health Education**: Environmental awareness promotes sustainable habits.
- **Community engagement is key to long-term health and environmental sustainability.**

3. Quality Control and Standardizations of Herbals

Environmental sustainability plays a critical role in **herbal medicine production, quality control, and safety**. Sustainable practices ensure the **ethical sourcing, processing, and**

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regulation of medicinal plants while maintaining **biodiversity and ecological balance**. Integrating **Good Agricultural Practices (GAP), Good Manufacturing Practices (GMP), and regulatory guidelines** helps minimize environmental impact while ensuring the efficacy and safety of herbal medicines.

Quality Control of Herbal Drugs and Environmental Impact

Basic Tests for Herbal Drugs and Sustainable Sourcing

- **Pharmaceutical Substances & Medicinal Plants**: Sustainable cultivation prevents overharvesting and ensures plant availability.
- **WHO Guidelines for Herbal Drug Quality Control**: Emphasizes sustainable practices to reduce contamination and maintain efficacy.
- **Evaluation of Commercial Crude Drugs**: Ethical sourcing and environmentally friendly processing reduce waste and pollution.
- Sustainable quality control ensures herbal drugs are safe, effective, and environmentally responsible.

Good Practices in Herbal Drug Industry and Sustainability

Environmental Impact of Quality Assurance in Herbal Drug Production

1. **cGMP, GAP, GMP, and GLP in Traditional Medicine**: Focuses on eco-friendly cultivation and processing.
2. **WHO Guidelines on cGMP for Herbal Medicines**: Reduces resource waste and promotes cleaner production methods.
3. **WHO Guidelines on GACP (Good Agricultural and Collection Practices)**: Supports conservation of medicinal plant biodiversity and prevents deforestation.
4. Sustainable farming and ethical manufacturing reduce environmental degradation in herbal medicine production.

Global Guidelines for Herbal Drug Quality and Safety

Environmental Considerations in International Standards

- **EU and ICH Guidelines for Herbal Drug Quality Control**: Ensure environmentally friendly production.
- **Research Guidelines for Herbal Medicine Safety and Efficacy**: Sustainable research methods minimize environmental risks.

✓ **International regulations promote sustainability while ensuring herbal drug safety.**

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Stability Testing, Standardization, and Environmental Impact

Eco-Friendly Approaches in Herbal Medicine Testing

- **Stability Testing of Herbal Medicines**: Avoids chemical preservatives that may harm the environment.
- **Chromatographic Techniques for Standardization**: Supports eco-friendly quality assessment.
- **New Drug Applications and Export Registration**: Encourages sustainable sourcing for global markets.
- **GMP and Drugs & Cosmetics Act Compliance**: Mandates environmentally responsible practices in herbal drug production.
- Eco-conscious testing and regulation improve herbal medicine sustainability.

Regulatory Framework and Environmental Protection in Herbal Medicine

Sustainability in Herbal Medicine Regulation

- **Regulatory Requirements for Herbal Medicines**: Focus on ethical sourcing and eco-friendly production.
- **WHO Guidelines on Safety Monitoring (Pharmacovigilance)**: Minimize environmental hazards from herbal medicine disposal.
- **Comparison of Herbal Pharmacopoeias**: Promotes standardized, sustainable herbal medicine practices.
- **Chemical & Biological Markers in Standardization**: Encourages environmentally friendly plant-based testing.
- Regulations ensure sustainability while maintaining the safety and efficacy of herbal medicines.

3. Computer Aided Drug Design

The process of **drug discovery and development** plays a crucial role in advancing modern medicine, but it also has a significant environmental impact. Sustainable approaches in **drug design, molecular modeling, and screening techniques** help reduce waste, conserve resources, and minimize environmental harm. **Green chemistry, eco-friendly screening techniques, and sustainable bioinformatics methods** contribute to environmentally responsible drug development.

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1. Sustainable Drug Discovery and Development

Eco-Friendly Lead Discovery and Analog-Based Drug Design

- **Sustainable Stages of Drug Discovery**: Reducing chemical waste and adopting greener synthesis methods.
- **Rational Approaches to Lead Discovery**: Traditional medicine-based drug discovery supports biodiversity conservation.
- **Lead Discovery Methods**: Random and non-random screening should prioritize eco-friendly processes.
- **Analog-Based Drug Design**: Bioisosterism and its role in minimizing hazardous chemical use.
- Using sustainable resources in lead discovery prevents environmental degradation.

2. Green Chemistry in QSAR and Drug Analysis

Environmentally Responsible Quantitative Structure-Activity Relationship (QSAR)

- **SAR vs. QSAR**: Computational methods reduce reliance on toxic experimental procedures.
- **Physicochemical Parameter Determination**: Green chemistry-based alternatives to harmful solvents and reagents.
- **Hansch Analysis, Free Wilson Analysis, 3D-QSAR**: Computational approaches minimize laboratory waste.
- Green computational techniques in QSAR analysis reduce pollution and resource consumption.

3. Molecular Modeling and Sustainable Virtual Screening

Eco-Friendly Computational Drug Design

- **Virtual Screening Techniques**: Computational drug screening minimizes chemical waste.
- **Pharmacophore Mapping and Docking Techniques**: Reducing the need for excessive in-vitro testing.
- **De Novo Drug Design**: Encourages eco-friendly drug synthesis.
- Molecular modeling techniques help develop effective drugs while reducing environmental harm.

4. Informatics and Sustainable Drug Design Methods

Reducing Environmental Footprint Through Digital Databases

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- **Bioinformatics and Chemoinformatics**: Digital methods eliminate unnecessary chemical testing.
- **ADME Databases**: Improve drug safety while minimizing animal testing.
- **Chemical, Biochemical, and Pharmaceutical Databases**: Enable sustainable drug discovery without excess waste.
- Using bioinformatics in drug research promotes sustainability by reducing experimental resource consumption.

5. Molecular Modeling and Sustainable Computational Chemistry

Energy-Efficient Approaches in Drug Development

- **Molecular Mechanics and Quantum Mechanics**: Environmentally friendly simulations replace chemical-based testing.
- **Energy Minimization Methods**: Reduce the need for excessive chemical synthesis.
- **Global Conformational Minima Determination**: Improves drug efficacy while minimizing waste production.
- Computational drug modeling enhances efficiency and sustainability in pharmaceutical research.

3. Computer Aided Drug Design

The process of drug discovery and development plays a crucial role in improving human health, but it also has significant environmental implications. Traditional drug research methods involve extensive use of **chemical reagents, energy-intensive processes, and pharmaceutical waste**, which can lead to pollution and ecological harm. The increasing awareness of **environmental sustainability** has led to the incorporation of **green chemistry principles, eco-friendly computational approaches, and sustainable sourcing of natural products** in drug development.

This course explores how drug discovery can be **more sustainable** by minimizing waste, reducing toxicity, and ensuring that drug production aligns with **environmentally responsible practices**. It integrates **green chemistry, computational toxicology, and sustainable biopharmaceutical practices** to develop drugs that are both effective and **environmentally safe**.

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Introduction to Sustainable Drug Discovery and Development

- Overview of environmental sustainability in drug discovery.
- Green chemistry approaches to minimize pollution and reduce hazardous waste.
- Sustainable sourcing of natural products and biodiversity conservation.
- Ethical concerns related to bioprospecting and ecological balance.
- Impact of random and non-random screening on ecosystems.
- Case studies on sustainable drug development practices.

QSAR and Eco-Friendly Drug Design

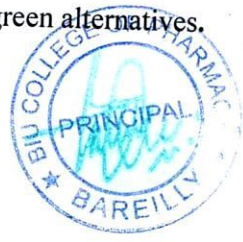
- Introduction to green QSAR and its role in designing environmentally safe drugs.
- Understanding how physicochemical properties influence drug biodegradability and toxicity.
- **Computational toxicology**: Predicting environmental risks of pharmaceuticals.
- Applications of QSAR in reducing hazardous waste and promoting safe drug design.
- Regulatory frameworks for ensuring environmental safety in drug production.
- Case studies on eco-friendly drug design and sustainability.

Molecular Modeling & Virtual Screening for Sustainability

- Green computational techniques to minimize laboratory waste.
- Virtual screening and drug-likeness screening with a focus on environmental impact.
- **Green molecular docking**: Designing drugs with minimal environmental persistence.
- De novo drug design emphasizing biodegradability and non-toxic metabolites.
- Regulatory guidelines for environmentally safe computational drug discovery.
- Role of AI and machine learning in sustainable drug research.

Informatics & Sustainable Drug Design Methods

- Introduction to bioinformatics and chemoinformatics for sustainable drug research.
- ADME databases and their role in evaluating bioaccumulation and ecotoxicity.
- Chemical, biochemical, and pharmaceutical databases for tracking green alternatives.
- Big data analytics for optimizing eco-friendly drug design.
- Case studies on sustainable pharmaceutical production.



Molecular Modeling & Green Drug Development Strategies

- Introduction to molecular mechanics and quantum mechanics for eco-friendly drug discovery.
- Energy minimization techniques for reducing computational costs and carbon footprint.
- Sustainable strategies for global conformational minima determination.
- Case studies on environmentally friendly drug production and green manufacturing.
- Future trends in sustainable drug discovery and the role of regulations in minimizing pharmaceutical pollution.

4. Advanced Instrumentation Techniques

Analytical techniques play a crucial role in drug discovery and quality control, but many traditional methods involve **toxic solvents, excessive energy consumption, and hazardous waste production**. The **environmental impact** of these techniques has led to the growing adoption of **green analytical chemistry** (GAC), which focuses on reducing **chemical waste, energy consumption, and environmental hazards**.

This course integrates **sustainability principles** into modern analytical techniques, exploring **eco-friendly alternatives** for drug analysis while maintaining accuracy and reliability. Emphasis is placed on **green spectroscopy, mass spectrometry, thermal methods, and X-ray diffraction**, with an understanding of **regulatory compliance** for environmental sustainability.

Sustainable Spectroscopic & Mass Spectrometric Techniques

- **Nuclear Magnetic Resonance (NMR) Spectroscopy**:
  - Principles of H-NMR and C-NMR with a focus on solvent-free and miniaturized approaches.
  - Chemical shift, spin-spin coupling, and relaxation in green analytical chemistry.
  - Sustainable instrumentation and eco-friendly sample preparation techniques.
- **Mass Spectrometry**:
  - Green alternatives to traditional ionization techniques (Electron Impact, MALDI, FAB).
  - Reducing solvent use in mass spectrometric analysis.

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- Applications in sustainable pharmaceutical analysis and environmental monitoring.

Thermal and X-Ray Diffraction Techniques in Green Analysis

- **Thermal Methods of Analysis**:
  - Sustainable principles of TGA, DTA, and DSC.
  - Eco-friendly instrumentation to reduce thermal degradation and waste.
  - Applications in green drug formulation and stability testing.
- **X-Ray Diffraction Methods**:
  - Reducing radiation exposure and energy-efficient X-ray crystallography.
  - Eco-conscious single crystal diffraction and powder diffraction.
  - Applications in biodegradable pharmaceuticals and eco-friendly material sciences.

Sustainable Calibration & Validation

- **Green Approaches to Calibration & Validation**:
  - Regulatory frameworks (ICH, USFDA) supporting environmentally friendly validation practices.
  - Sustainable calibration techniques for minimizing reagent waste and energy consumption.
- **Calibration of Instruments in a Sustainable Lab**:
  - **Electronic balance**: Low-energy devices and sustainable weighing methods.
  - **UV-Visible spectrophotometer**: Reducing solvent waste and optimizing light sources.
  - **IR spectrophotometer**: Sustainable sample handling and minimal-waste techniques.

Green Extraction & Radioimmunoassay Techniques

- **Radioimmunoassay (RIA)**:
  - Importance and sustainability concerns in RIA applications.
  - Reducing radioactive waste and exploring alternative non-radioactive immunoassay methods.
- **Sustainable Extraction Techniques**:
  - **Solid Phase Extraction (SPE)**: Reducing solvent use and plastic waste.

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- **Liquid-Liquid Extraction (LLE)**: Eco-friendly solvent selection and recovery techniques.

Green Hyphenated Techniques in Pharmaceutical Analysis

- **Sustainable Hyphenated Techniques**:
  - LC-MS/MS, GC-MS/MS, HPTLC-MS with a focus on minimizing chemical waste and energy consumption.
  - Automation and miniaturization to reduce environmental impact.
  - Role in green pharmaceutical quality control and environmental monitoring.

5. Dietary Supplements and Nutraceutical

The growing field of **nutraceuticals and functional foods** plays a crucial role in preventing and managing various health conditions. Nutraceuticals are **bioactive compounds** derived from food sources that offer **medicinal and health benefits**, while functional foods provide **additional advantages beyond basic nutrition**.

This course explores **the classification, sources, chemical nature, and health benefits** of nutraceuticals, the role of **phytochemicals, antioxidants, and dietary fibers**, as well as **regulatory and safety considerations** related to their use.

Fundamentals of Nutraceuticals & Functional Foods

- **Definitions & Classification**:
  - Functional foods, nutraceuticals, and dietary supplements.
  - Classification based on source, function, and disease prevention.
- **Health Benefits & Disease Prevention**:
  - Role of nutraceuticals in managing weight control, diabetes, cancer, heart disease, stress, osteoarthritis, hypertension, etc.
- **Public Health & Nutrition**:
  - Importance of maternal and child nutrition, nutrition & aging, and community-based nutrition education.
- **Key Nutraceutical Sources & Their Benefits**:

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- Spirulina, Soybean, Ginseng, Garlic, Broccoli, Gingko, Flaxseeds.
- Marker compounds, chemical nature, and medicinal applications.

Phytochemicals as Nutraceuticals

- **Key Phytochemical Classes & Their Health Benefits**:
  - **Carotenoids**: α- and β-Carotene, Lycopene, Xanthophylls, Lutein.
  - **Sulfides**: Diallyl sulfides, Allyl trisulfide.
  - **Polyphenolics**: Resveratrol.
  - **Flavonoids**: Rutin, Naringin, Quercetin, Anthocyanidins, Catechins, Flavones.
  - **Phytoestrogens**: Isoflavones, Daidzein, Genistein, Lignans.
  - **Tocopherols (Vitamin E)**: Antioxidant properties and health benefits.
- **Prebiotics & Probiotics**:
  - Role of Fructo-oligosaccharides, Lactobacillus in gut health.
- **Nutraceuticals in Common Foods**:
  - Cereals, vegetables, seafood, coffee, tea, wheat bran, rice bran, etc.

Free Radicals & Functional Food Ingredients

- **Understanding Free Radicals & Their Impact**:
  - Production of reactive oxygen species (ROS).
  - Free radical damage to lipids, proteins, carbohydrates, and nucleic acids.
- **Dietary Fibers & Complex Carbohydrates**:
  - Role as **functional food ingredients** for digestive and metabolic health.

Antioxidants & Functional Foods in Disease Prevention

- **Free Radicals & Disease Mechanisms**:
  - Diabetes, inflammation, ischemic reperfusion injury, cancer, atherosclerosis, brain pathology, kidney and muscle damage.
  - Free radical theory of aging.
- **Antioxidant Defense Systems**:
  - **Endogenous antioxidants**:
    - Enzymatic: Superoxide dismutase, Catalase, Glutathione peroxidase.
    - Non-enzymatic: Vitamin C, Vitamin E, α-Lipoic acid, Melatonin.
  - **Synthetic antioxidants**:
    - Butylated Hydroxy Toluene (BHT), Butylated Hydroxy Anisole (BHA).

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- **Functional Foods for Chronic Disease Prevention**:
    - Role in managing cardiovascular diseases, obesity, metabolic syndrome, etc.

Processing, Safety, & Regulatory Aspects

- **Impact of Processing & Storage**:
    - Effects of temperature, light, pH, and interactions on nutraceutical stability.
- **Food Safety & Regulatory Guidelines**:
    - FSSAI, FDA, FPO, MPO, AGMARK, HACCP, GMPs.
    - Food adulteration and safety concerns.
- **Pharmacopoeial Standards for Nutraceuticals & Dietary Supplements**:
    - Quality assurance and standardization of functional food

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1.3.1 Co- Curriculum Activity Relevant to Gender, Environment and Sustainability, Human Values, Health Determinants, Right to Health Issues

BAREILLY INTERNATIONAL UNIVERSITY, BAREILLY

Activity Report

Academic Session: 2024 - 25

(Submitted to IQAC by Department/ Institute)

Name of Department / Institute	BIU College of Pharmacy, Bareilly International University, Bareilly			
Name of Dean/ Principal	Dr. Pushpendra Kannojia			
Coordinator/ Convener of the activity	Mr. Prashant Kumar Sharma, Mrs. Richa Gangwar, Ms. Sonali			
Email ID and contact number of Convener of the activity	Official email id:	biucollegeofpharmacy@gmail.com		
	Contact No.:	9457918466		
Name of the Activity/ Program/ Event/ Function	Gusto-2024 (Fresher's Party)			
Date(s) and day of the activity	5th December 2024			
Venue of the activity	BIU Auditorium			
Relevant documents (please√ the relevant)	Circular		Yes / No	
	Brochure		Yes / No	
	No of participants along with List			Yes / No
	Attendance sheet(s)		Yes / No	
	Report of the event (along with ***Geotagged*** photographs) (1-4, depicting the event)		Yes / No	
	Certificate(s)* (5 Sample photocopies)		Yes / No	
	Other document (if any) Attach the document		Media News	
Any other relevant information				

(Coordinator/ Convener of the Activity)

BIU COLLEGE OF PHARMACY PRINCIPAL BAREILLY

(Principal/Dean)

BIU COLLEGE OF PHARMACY

Bareilly International University

Rohilkhand Medical College Campus, Pilibhit by Pass Road, Bareilly. (U.P) – 243006 INDIA
Phone:- 0581-2526011, 2526012 (EPABX) Fax: 2526054, 2303345
E-mail: info@rmcbareilly.com, www.rmcbareilly.com

Ref.No.: PHR/2264/2024 **Date: 21/11/2024**

To,

The Hon'ble Vice-Chancellor
BIU

Subject: Request for Permission to Organize a Fresher's Party.

Respected Madam,

On behalf of BIU College of Pharmacy and Rohilkhand College of Pharmacy this is to seek your kind permission to organize a Fresher's party for D.Pharm, B.Pharm and M.Pharm Students to welcome the new batch of students for the academic year 2024. The event aims to foster interaction between seniors and juniors, create a welcoming environment, and encourage camaraderie among students.

We are planning to hold the event on 06/12/2024 at 09:00 am onwards in **Auditorium** within the University campus. The Fresher's party will include speeches, cultural performances, and a small lunch. We will ensure that all University rules and guidelines, including safety protocols are strictly followed.

We kindly request your approval for organizing this event and would appreciate any suggestions you may have to make it a memorable occasion. Your support and guidance will be greatly valued.

Thank you for considering our request. We look forward to your positive response.

Event Coordinators:
1. Dr. Sanjeev Kumar
2. Mrs. Richa Gangwar
3. Mrs. Sunita Gangwar
3. Mr. Prashant Kumar Sharma
4. Ms. Sonali

21/11/2024

Principal
BIU College of Pharmacy
Rohilkhand College of Pharmacy

Approved by.....

Fresher's Party at BIU College of Pharmacy

Venue: Auditorium

Date: December 5, 2024

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1. Inaugural Ceremony

- **Lamp Lighting Ceremony:**

  The event commenced with the ceremonial lighting of the lamp by the distinguished guests:

  - **Mr. Tasleem Khan**, Senior Administrative Officer, Bareilly International University
  - **Dr. Sushil Kumar Thakur**, Registrar, Bareilly International University
  - **Dr. Pushpendra Kannojia**, Principal, BIU College of Pharmacy
  - **Dr. Shailendra Kumar Verma**, Professor, BIU College of Pharmacy
  - **Dr. Sanjeev Kumar**, Professor, BIU College of Pharmacy

- **Welcome Address:**

  Inspirational speeches were delivered by:

  - **Mr. Tasleem Khan**, encouraging the students to embrace new opportunities.
  - **Dr. Sushil Kumar Thakur**, emphasizing discipline and education.
  - **Dr. Pushpendra Kannojia**, highlighting the balance between academics and extracurriculars.

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2. Cultural Performances

All cultural programs were meticulously organized by the coordinators:

- **Mr. Prashant Kumar Sharma**, Assistant Professor
- **Mrs. Richa Gangwar**, Assistant Professor
- **Ms. Sonali**, Assistant Professor

The stage events were hosted by talented anchors:

- **Smriti Pathak**, B.Pharm II Year
- **Payal**, B.Pharm II Year

The cultural program lineup included:

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- **Ganesh Vandana:** A divine classical dance by B.Pharm I Year students, inaugurating the cultural session.
- **Group Dance Performances:** Energetic and vibrant group dances with themes ranging from Bollywood to fusion.
- **Solo Dance Performances:** Showcasing individual talents in classical, contemporary, and freestyle dance.
- **Musical Performances:** Soulful singing performances, both solo and duet.
- **Drama and Skits:** Thought-provoking and humorous acts performed by students.

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3. Talent Show (Miss Fresher & Mr. Fresher Competitions)

- **Introduction Round:** Contestants presented themselves confidently to the audience and judges.
- **Talent Round:** Participants exhibited their unique talents, such as singing, poetry, mimicry, and acting.
- **Q&A Round:** The judges assessed spontaneity and wit through a series of interesting questions.

Winners:

- **Miss Fresher:** Ankshika Saxena
- **Mr. Fresher:** Aman

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4. Special Recognition and Awards

- **Best Performer Awards:** Recognized outstanding performances in cultural and talent rounds.
- **Mr. and Ms. Confident:** Special awards for participants who showcased exceptional confidence.

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5. Faculty Interaction

Faculty members shared motivational insights, encouraging students to excel in their academic and professional lives.

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6. Closing Ceremony

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- **Vote of Thanks:** Delivered by **Ms. Sonali**, Assistant Professor, who expressed gratitude to the special guests, faculty members, coordinators, and students for their efforts and participation.
- **Photo Session:** Group photos with the winners, participants, and faculty members captured the joyous moments.
- **Refreshments:** Snacks and beverages were served to conclude the evening.









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BAREILLY INTERNATIONAL UNIVERSITY, BAREILLY

Activity Report

Academic Session: 2024 - 25

(Submitted to IQAC by Department/ Institute)

Name of Department / Institute	BIU College of Pharmacy, Bareilly International University, Bareilly			
Name of Dean/ Principal	Dr. Pushpendra Kannojia			
Coordinator/ Convener of the activity	Mrs. Suman, Mr. Balbir Singh, Ms. Mitushi Singh			
Email ID and contact number of Convener of the activity	Official email id:	biucollegeofpharmacy@gmail.com		
	Contact No.:	9761643101		
Name of the Activity/ Program/ Event/ Function	Farewell Party 2024			
Date(s) and day of the activity	26th October 2024			
Venue of the activity	BIU Auditorium			
Relevant documents (please√ the relevant)	Circular		Yes / No	
	Brochure		Yes / No	
	No of participants along with List			Yes / No
	Attendance sheet(s)		Yes / No	
	Report of the event (along with ***Geotagged*** photographs) (1-4, depicting the event)		Yes / No	
	Certificate(s)* (5 Sample photocopies)		Yes / No	
	Other document (if any) Attach the document		Media News	
Any other relevant information				

(Coordinator/ Convener of the Activity)

(Principal/Dean)

BIU COLLEGE OF PHARMACY

Bareilly International University

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E-mail: info@rmcbareilly.com, www.rmcbareilly.com

Date: 28/10/2024

A
Report
On

FAREWELL PARTY (ADIEU) – 2024

Theme:- Rangilo Gujrat

Day:- Saturday

Date:- 26/10/2024

Coordinator:- Mrs. Suman
Mr. Babir Singh
Ms. Mitushi Singh

BIU College of Pharmacy organized a heartfelt Farewell Party (ADIEU) to honor and bid goodbye to the outgoing batch of B.Pharm (2020) and D.Pharm (2021) students. The event took place in the Auditorium, BIU which was beautifully decorated to mark this special occasion. The theme for the party was **"Rangilo Gujrat".**

The program began with a warm welcome of our Special Guest Mr. Tasleem Khan, Senior Administrative Officer, RMCH, Dr. Pushpendra Kannojia, Principal, BIU College of Pharmacy, Faculty members, Staff members, and students.

The celebration was inaugurated by the welcome address of Dr. Pushpendra Kannojia, Principal, BIU College of Pharmacy followed by Lamp Lightening and the Saraswati Vandana, performed by Ms. Jeesu Gangwar, B.Pharm 7th Semester.

The Special Guest, Mr. Tasleem Khan, Senior Administrative Officer, RMCH addressed the students for their bright future.

Juniors and seniors showcased their talents through dance, music, and drama in the cultural acts, which gave a unique touch to the evening and made everyone smile and remember happy times.

The cultural performances were made more special by the Group dance, solo dance, singing, comedy act, poetry performed by the junior students, making it a remarkable and memorable moment for everyone present there.

The competition for the title of **MISS & MR. FAREWELL** was started with the **Ramp Walk** (first round). Participants walked the ramp with poise and flair, donning a variety of themed attire ranging from traditional, modern, or fusion to reflect diverse styles. Each participant's unique personality and fashion sense shone through, adding vibrancy to the event.

The judging panel evaluated participants based on style, confidence, originality, and stage presence. Between rounds, there were brief interludes of music and dance performances that kept the audience engaged and energetic.

The second round of performance included **Talent Round**, in which students perform the stunning performances for showcased their talent.

The final round was started with judges questioning answer round. There was a tough competition among the students as they all were amazing.

The Anchor for the celebration was Vidhi (B.Pharm 7th Sem), who set everyone in party mood with her charisma, engaging presence, lively interactions and witty remarks added an extra charm, making the event enjoyable for everyone present.

The highlight of the evening was a presented with mementos as a token of appreciation and remembrance to the outgoing students.

Towards the end, winners were announced, and awards were given for categories such as "Best Performance," "Best Act," and last but not the least "Mr. & Miss Farewell."

At the end, the audience enjoyed a delightful lunch, and the evening concluded with a round of applause, laughter, and some heartfelt goodbyes.

Overall, the farewell party was a beautiful mix of joy and nostalgia, leaving everyone with memories to cherish and a sense of pride for the time spent together. The evening celebrated the achievements and contributions of the outgoing batch, wishing them success and happiness for their future.

Judges:- Dr. Prashant Gupta
Mr. Ajay Upadhyay
Mrs. Sakshi Bhatnagar

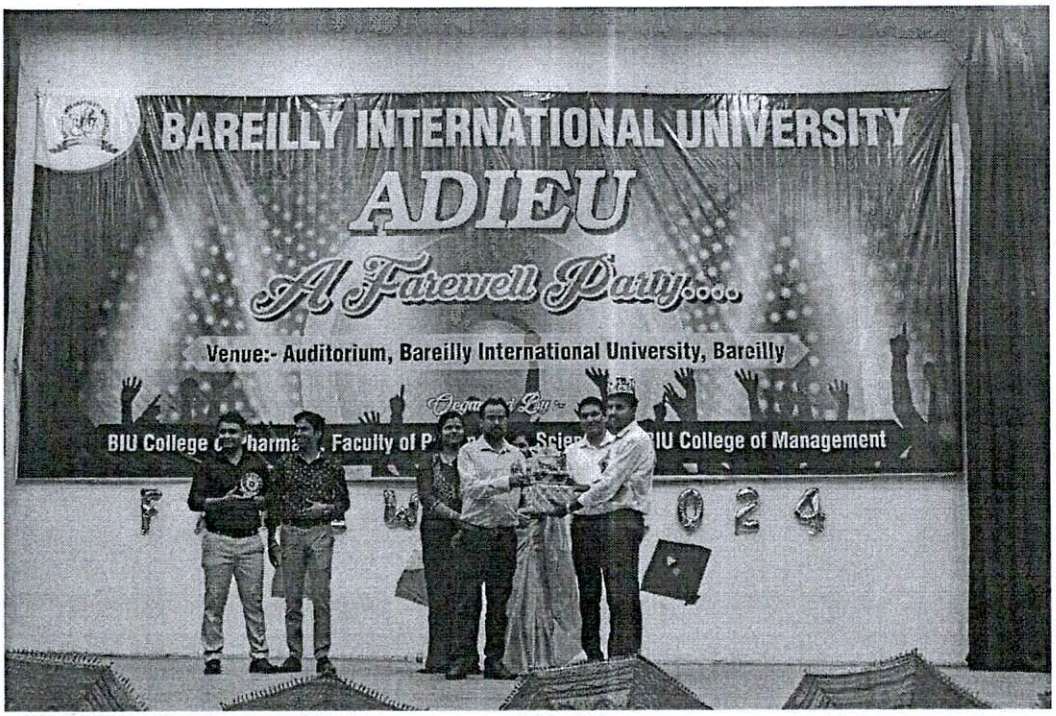
Winners:- **Mr. Farewell** – Shubham Shukla
Ms. Farewell – Pragati Shrivastava
Best Performance – Fiza Khan (B.Pharm 7th Sem)
Best Stage Performance – Nikita and Group (D.Pharm 1st Year)
Runner Ups – Ms. Deepali Kashyap & Mr. Vikas Solanki

The whole event was prepared and executed under the supervision of Dr. Pushpendra Kannojia, Principal, BIU College of Pharmacy, Bareilly International University, Bareilly.

Coordinator:- Mrs. Suman
Mr. Babir Singh
Ms. Mitushi Singh

COLLEGE OF PHARMACY

Principal


BAREILLY INTERNATIONAL UNIVERSITY
ADIEU
A Farewell Party....
Venue:- Auditorium, Bareilly International University, Bareilly
BIU College of Management


BAREILLY INTERNATIONAL UNIVERSITY
ADIEU
A Farewell Party....
Venue:- Auditorium, Bareilly International University, Bareilly


BAREILLY INTERNATIONAL UNIVERSITY
ADIEU
A Farewell Party....
Venue:- Auditorium, Bareilly International University, Bareilly
& BIU College of Management
2024


BAREILLY INTERNATIONAL UNIVERSITY
ADIEU
A Farewell Party....
Venue:- Auditorium, Bareilly International University, Bareilly

BAREILLY INTERNATIONAL UNIVERSITY, BAREILLY

Activity Report Format

Academic Session: 2024-2025

(Submitted to IQAC by Department/ Institute)

Name of Department / Institute	Department of Pharmacy Bareilly International University, Bareilly		
Name of Dean/ Principal	Dr. Pushpendra Kannojia		
Coordinator/ Convener of the activity	Mr. Paras Kumar Prajapati		
Email ID and contact number of Convener of the activity	Official email id:	Paras03py@gmail.com	
	Contact No.:	6396253665	
Name of the Activity/ Program/ Event/ Function	World Pharmacist Day Theme: "Pharmacists Meeting Global Health Needs"		
Date(s) and day of the activity	25/09/2024 & Wednesday		
Venue of the activity	LT-14 Rohilkhand Medical College & Hospital ✓		
Relevant documents (please√ the relevant)	Circular	Yes / No ✓	
	Brochure	Yes / No ✓	
	No of participants along with List	256 ✓	Yes / No ✓
	Attendance sheet(s)	Yes / No ✓	
	Report of the event (along with ***Geotagged*** photographs) (1-4, depicting the event)	Yes / No ✓ ✓	
	Certificate(s)* (5 Sample photocopies)	Yes / No ✓	
	Other document (if any) Attach the document	–	
Any other relevant information			

* Provide the "Signed" soft and hard copy of all requisite documents

* If Certificates/ any other document not provided/ not applicable: kindly mention.

01/10/24

(Principal/Dean)

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01/10/24

(Coordinator/ Convener of the Activity)

BIU COLLEGE OF PHARMACY
Rohilkhand Medical College Campus, Pilibhit by Pass Road, Bareilly. (U.P) – 243006 INDIA
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E-mail: biucollegeofpharmacy@gmail.com, www.biu.edu.in

Date:- 01/10/2024

"World Pharmacist Day" -2024

Theme- "Pharmacists meeting Global Health Needs"

Day- Wednesday
Date of Event- 25 th September ,2024
Coordinator- Mr. Paras Kumar Prajapati
Venue- LT-14 , Rohilkhand Medical College

The "World Pharmacists Day" is celebrated on 25th September every year. Following the same, the event was organized by Department of Pharmacy, a constituent unit of Bareilly International University, Bareilly.

World Pharmacist Day, celebrated annually on September 25, was established by the International Pharmaceutical Federation (FIP) in 2009. The goal is to highlight the critical role of pharmacists in healthcare systems worldwide. This year's theme, **["Pharmacists meeting Global Health Needs"]** , emphasized the importance of pharmacists in patient care, medication safety, advancing health etc.

Honorable Principal sir , **Dr Pushpendra Kannojia** gave a speech on World Pharmacist day by discussing the importance of pharmacists in modern healthcare systems, Through which he wanted to spread awareness about the pharmacist's role in healthcare and to educate the public about the safe and effective use of medicines.

Honorable **Mr. Paras Kumar Prajapati** conducted the **Oath ceremony** , to highlight the ethical responsibilities and professional duties of pharmacists. The ceremony aimed to instill a sense of accountability and dedication among pharmacy students and professionals towards their role in healthcare.

The pharmacist's oath is a solemn promise to uphold the highest ethical standards, ensuring the safety, health, and well-being of patients. This event serves as a reminder of the core values that guide the profession, focusing on patient care, ethical practice, and lifelong learning.

The chief guest for the event was **Mr. Luvkush Prasad (Inspector of drug, District- Buduan)**, a renowned figure in the pharmaceutical or healthcare industry. The opening address focused on this year's theme and the significant contributions pharmacists make in safeguarding health and ensuring the rational use of medicines, an expert in Pharmacy Field , delivered a keynote address titled " **Pharmacist s meeting Global Health Needs** ". This session focused on Ensuring Access to Safe and Affordable Medicines, Promoting rational use of Medicines , Strengthening Public Health Initiatives, Providing Pateint centered care and addressing the global health Emergencies.

Various students participated in the events held on World Pharmacist day such as **Plantation , Poster competition , Model competition , Skit Play and Short Film** based on theme .

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Among the participants, the winner from all events is as follows-

a) Poster Competition

- Saurav , Rohit and Vishal — 1st Prize
- Saloni , kavita, shaumya — 2st Prize

b) Model Competition

- Smriti , Payal , ekaksha — 1st Prize
- Skritika ,Nikita , Amit , prachi — 2rd Prize

c) Skit Play

- udit sharma and Group

d) Short Film

- Saloni , saumya , kavita — 1st Prize
- Anjali, vitika, smriti, ekaksha, pallavi. — 2st Prize

The whole event was prepared and executed under the supervision of Mr. Paras Kumar Prajapati (Associate Professor), Faculty of Pharmacy, Bareilly International University, Bareilly.
Vote of thanks was delivered by Mr. PARAS KUMAR PRAJAPATI, Faculty of Pharmacy.

07/10/24

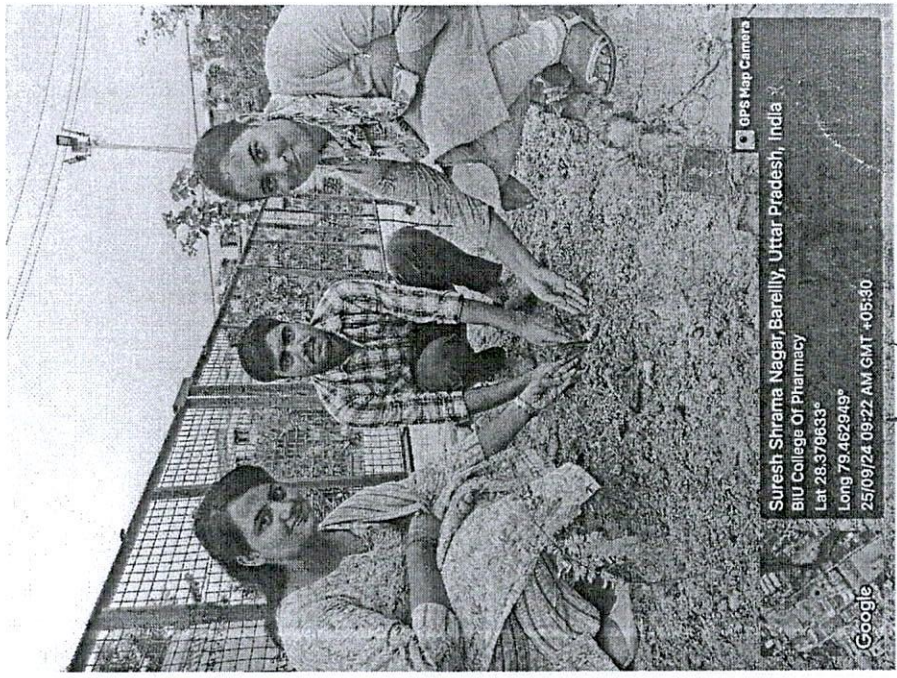
Mr. Paras Kumar Prajapati
Coordinator

01/10/24

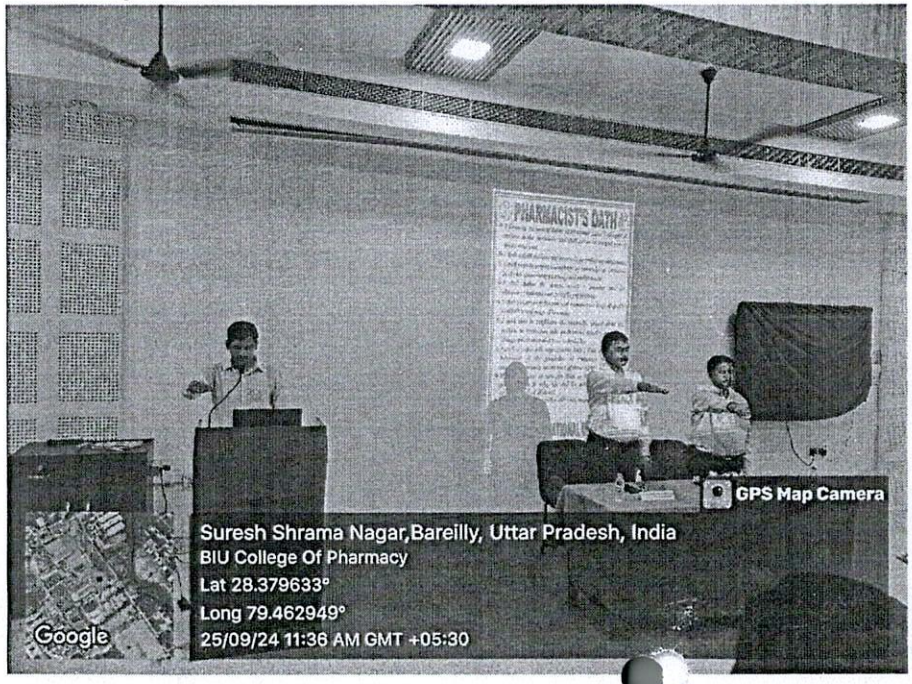
Dr. Pushpendra Kannojia
Principal

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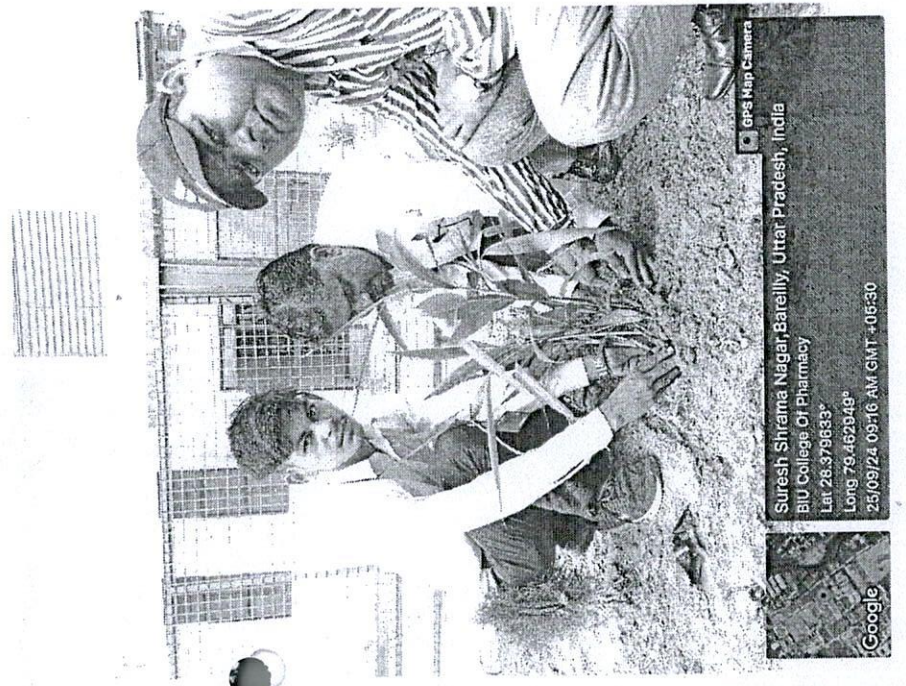






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BAREILLY INTERNATIONAL UNIVERSITY, BAREILLY

Activity Report

Academic Session: 2024 - 25

(Submitted to IQAC by Department/ Institute)

Name of Department / Institute	BIU College of Pharmacy, Bareilly International University, Bareilly		
Name of Dean/ Principal	Dr. Pushpendra Kannojia		
Coordinator/ Convener of the activity	Dr. Shailendra Kumar Verma		
Email ID and contact number of Convener of the activity	Official email id:	biucollegeofpharmacy@gmail.com	
	Contact No.:	9458702558	
Name of the Activity/ Program/ Event/ Function	Orientation Program (2024-25)		
Date(s) and day of the activity	16th & 17th August 2024		
Venue of the activity	LT-13		
Relevant documents (please√ the relevant)	Circular	Yes / No	
	Brochure	Yes / No	
	No of participants along with List		Yes / No
	Attendance sheet(s)	Yes / No	
	Report of the event (along with ***Geotagged*** photographs) (1-4, depicting the event)	Yes / No	
	Certificate(s)* (5 Sample photocopies)	Yes / No	
	Other document (if any) Attach the document	Media News	
Any other relevant information			

(Coordinator/ Convener of the Activity) **(Principal/Dean)**

Orientation Program Report-2024

Organized by: Bareilly International University (BIU), BIU College of Pharmacy

Program Dates: 16th and 17th August 2024

Venue: LT-13

The BIU College of Pharmacy conducted a comprehensive **Orientation Program** for newly admitted students of **M.Pharm, B.Pharm, and D.Pharm** courses for the academic year 2024–25. The program aimed to introduce students to the institution, its culture, academic structure, and facilities.

Day 1: 16th August 2024

Session 1: Gathering of Students

- **Time:** 9:00 AM – 10:00 AM
- **Responsibility for gathering of Students:**
  - **Mr. Prashant Kumar Sharma**
  - **Mr. Leeladhar**
  - **Mr. Pranjal Gangwar**

    Students assembled in LT-13, where they were welcomed by faculty coordinators. The session served as an icebreaker for students, providing them with an overview of the day's schedule and initial guidance.

Session 2: Brief Introduction About Orientation and Pharmacy Profession
Time: **10:00 AM – 11:00 AM**
Speaker: Dr. Shailendra Kumar Verma

Dr. Shailendra Kumar Verma captivated the audience with a detailed presentation on the **pharmacy profession** and its significance. He emphasized the **historical evolution of pharmacy** and its vital role in shaping modern healthcare systems. Dr. Verma discussed the wide-ranging **career opportunities** available in the field, such as roles in **clinical pharmacy**, **pharmaceutical manufacturing**, **quality control**, **regulatory affairs**, and **academic research**. He also elaborated on the **ethical responsibilities of pharmacists**, the increasing demand for skilled professionals in **biotechnology and drug development**, and the importance of interdisciplinary collaboration in the healthcare industry. Students were encouraged to explore various areas of specialization, including **pharmaceutics, pharmacology, and pharmacovigilance**, to align with their career aspirations.

Session 3: Welcome Address

- **Time:** 11:00 AM – 12:00 PM
- **Speakers: Principal Dr. Pushpendra Kannojia**

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The Principal and faculty extended a warm welcome to the students, inspiring them to aim high in their academic journey. Motivational anecdotes and insights into the college's vision were shared.

Session 4: Examination Details
Time: 12:00 PM – 1:00 PM
Speaker: Mr. Pankaj Kr. Shankhdhar

Mr. Shankhdhar delivered a well-structured session outlining the **University's examination system**, ensuring that students understood the importance of academic integrity and performance. He detailed:

1. **Exam formats**: Written exams, practicals, and viva voce.
2. **Evaluation criteria**: Continuous assessment, internal tests, sessional marks, and final exams.
3. **Grading system**: Breakdown of marks and their weightage in the overall performance.
4. **Important regulations**: Rules for attendance, examination eligibility, and consequences of malpractice.
5. **Tips for success**: Time management, efficient preparation strategies, and resource utilization (library, study materials).
   Students were encouraged to approach their studies systematically and strive for academic excellence.

Session 5: Description on NAAC and NSS
Time: 1:00 PM – 2:00 PM
Speakers: Mr. Sanjeev Kumar & Ms. Babita Sharma

The significance of **NAAC Accreditation** and **National Service Scheme (NSS)** was highlighted. Students were encouraged to participate actively in NSS activities for holistic development.

Day 2: 17th August 2024

Session 1: Career Guidance and Future Aspects About the Course
Time: 9:00 AM – 10:00 AM
Speaker: Mr. Ratan Deep Chauhan
This session provided an insightful overview of the **career landscape in pharmacy**. Mr. Chauhan outlined the diverse avenues available after completing pharmacy education, including:

- **Academia**: Becoming lecturers or researchers in educational institutions.
- **Industry roles**: Positions in pharmaceutical companies, such as formulation scientist, production manager, or quality assurance officer.

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- **Healthcare settings**: Roles in hospital and clinical pharmacy, ensuring patient safety and medication efficacy.
- **Regulatory affairs**: Opportunities to work with government or private organizations overseeing drug approvals and compliance.
- **Entrepreneurship**: Starting independent ventures like retail pharmacies or manufacturing units.

  He also highlighted the **global demand** for skilled pharmacists and encouraged students to participate in professional development programs, internships, and certifications to enhance their employability.

Session 2: Journal Club Activities

Time: 10:00 AM – 11:00 AM
Coordinators: Mr. Prashant Kumar Sharma

Students were introduced to the concept of **Journal Club Activities**, which are designed to foster critical thinking, teamwork, and presentation skills. Key aspects of this session included:

1. **Purpose of Journal Clubs**: Enhancing knowledge about recent advancements in pharmacy, evaluating research articles, and promoting evidence-based learning.
2. **Structure of Activities**: Students work in groups to review and present findings from scientific journals, followed by discussions led by faculty members.
3. **Skill Development**: Exposure to research methodologies, statistical analysis, and scientific writing.
4. **Future Applications**: Preparing students for careers in research and development (R&D) or postgraduate studies.

   Examples of journals and articles relevant to pharmacy were shared, and students were encouraged to actively participate in these regular activities to strengthen their academic and professional foundation.

Session 3: College Rules and Regulations

Time: 11:00 AM – 12:00 PM

Speakers: Mr. Paras Prajapati & Ms. Deeksha Sahai
College Campus Rules

The session on college campus rules outlined the following key regulations to ensure a safe, respectful, and conducive environment for learning:

1. **General Conduct:** Students must exhibit **discipline and professionalism** in behavior at all times. Respectful communication with peers, faculty, and staff is mandatory. Any form of misconduct, including harassment or bullying, is strictly prohibited.

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2. **Attendance and Punctuality:** A minimum of **75% attendance** is required in all classes, practicals, and activities. Students are expected to arrive on time for lectures and lab sessions.
3. **Dress Code:** Professional and appropriate attire is mandatory on campus. Students must adhere to any specific dress requirements during laboratory work or official events.
4. **Cleanliness and Campus Maintenance:** Maintain the cleanliness of classrooms, labs, and common areas. Littering and damage are strictly prohibited.
5. **Library and Study Areas:** Silence must be observed in the library and designated study areas. Books and other resources must be handled responsibly and returned on time.
6. **Lab and Equipment Usage:** Lab safety protocols must be followed at all times. Students are accountable for the proper use and maintenance of laboratory equipment.
7. **Prohibited Activities:** Smoking, consumption of alcohol, and the use of drugs are banned on campus. Unauthorized gatherings, protests, or distribution of materials are not permitted.
8. **Anti-Ragging Policy:** The college adheres to a **zero-tolerance policy on ragging** in any form. Violations will result in strict disciplinary action, including legal proceedings if necessary.
9. **Extracurricular and Club Participation:** Students must follow specific rules for club activities, ensuring they do not interfere with academic schedules. Participation in events requires prior approval from the faculty coordinator.
10. **Grievances and Reporting:** Any issues related to campus life, safety, or rules can be reported to the **Grievance Redressal Committee.** Anonymous reporting mechanisms are also available for sensitive concerns.
11. **Campus Safety and Security:** Students must carry their college ID cards at all times. Loitering in restricted areas or engaging in unsafe activities is prohibited. Emergency incidents should be reported immediately to the campus security team.

Session 4: Department Visit

Time: 1:00 PM – 2:00 PM
Coordinators:

- Mr. Prashant Kumar Sharma
- Mr. Anurag Bharti
- Mr. Yogendra Singh
- Mr. Suraj Giri Goswami
- Mrs. Anita Yadav
- Ms. Sonali
- Ms. Megha Yadav
- Mr. Uday Pratap Singh Bhaskar

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The session provided an in-depth tour of all the key facilities of the BIU College of Pharmacy, enabling students to familiarize themselves with the campus infrastructure, laboratory setups, and resources available for their academic journey.

1. Pharmacy Laboratories

The visit started with a walkthrough of the various **pharmacy laboratories**, each designed for specific purposes:

- **Pharmaceutics Lab:** Students were introduced to equipment such as tablet compression machines, dissolution apparatus, and mixers. The coordinators explained practical applications like drug formulation and evaluation.
- **Pharmacology Lab:** This lab showcased instruments like the physiograph and organ bath for experiments on animal models. Students were briefed on preclinical testing methods and ethical guidelines.
- **Pharmaceutical Chemistry Lab:** Demonstrations of analytical tools like UV-Visible Spectrophotometers and digital Viscometer systems were given. Emphasis was laid on the role of chemistry in drug discovery and analysis.
- **Pharmacognosy Lab:** Students were introduced to techniques for studying medicinal plants and their properties. They were shown herbariums and extraction units used for isolating active constituents.

2. Library Visit

- The college library offered a comprehensive collection of pharmacy-related books, research journals, and e-resources.
- Students were oriented on accessing resources, using the digital database, and borrowing guidelines.
- Emphasis was laid on the importance of staying updated with scientific advancements and literature.

3. Herbal Garden Tour

- The herbal garden served as a live repository of medicinal plants.
- Students learned about the cultivation, identification, and therapeutic applications of plants like **Tulsi, Aloe Vera, Ashwagandha, and Neem**.
- Faculty highlighted the integration of herbal medicine in modern pharmaceutical practices.

4. Animal House Visit

- The **CPCSEA-approved Animal House** visit provided insights into ethical practices in animal-based research.
- Students observed the housing conditions for lab animals, such as mice, rats, and rabbits.
- They were briefed on the significance of animal models in pharmacological studies and regulatory requirements.

5. Common Rooms and Other Facilities

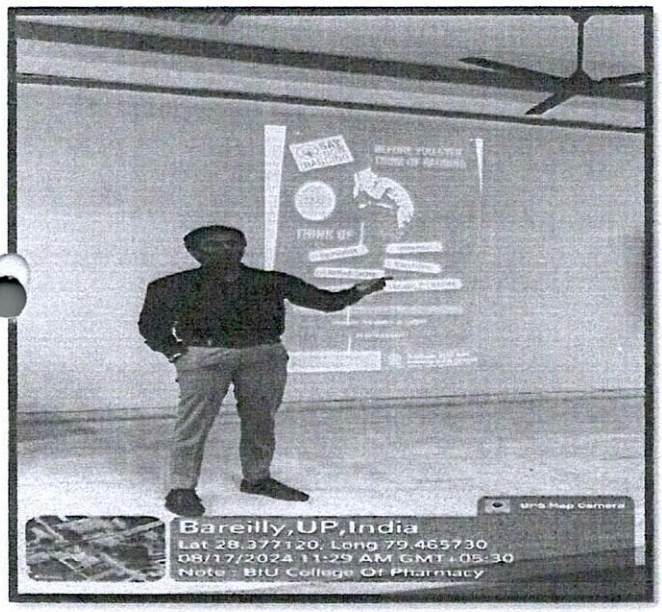
- The session also included a tour of the student **common rooms, seminar halls, and auditorium** used for extracurricular activities and academic discussions. This visit

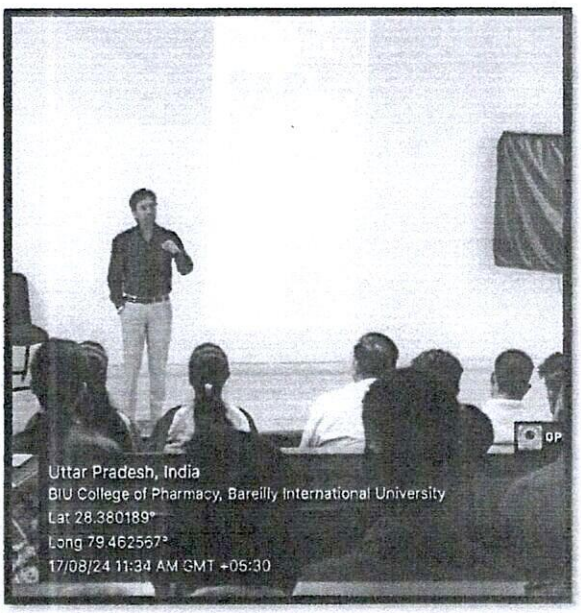
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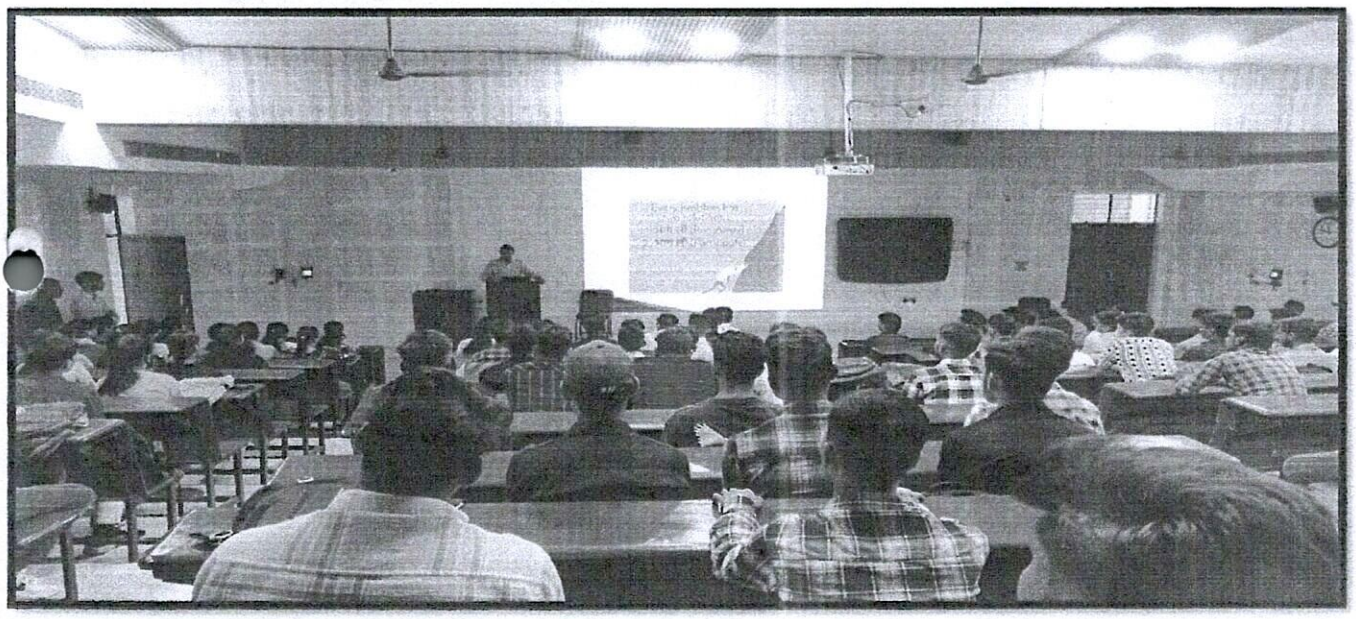
allowed students to visualize how each facility contributes to their theoretical and practical education, laying a strong foundation for their academic and professional growth.

6. **Central Instrument Room**

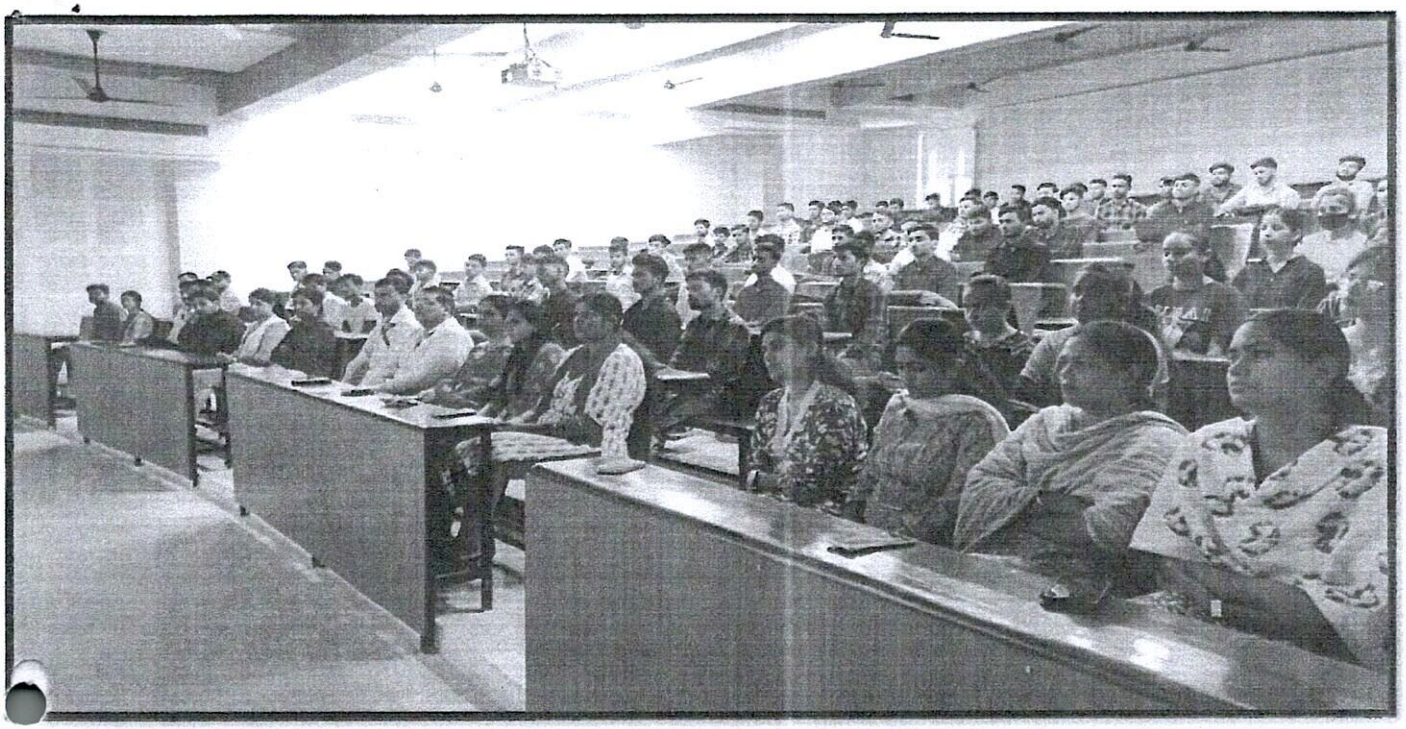
The **Central Instrument Room** is one of the most critical facilities in the BIU College of Pharmacy, housing advanced analytical instruments used for sophisticated research and quality control in pharmaceuticals. This visit offered students a detailed orientation about the cutting-edge equipment available and their applications in pharmacy education and research.

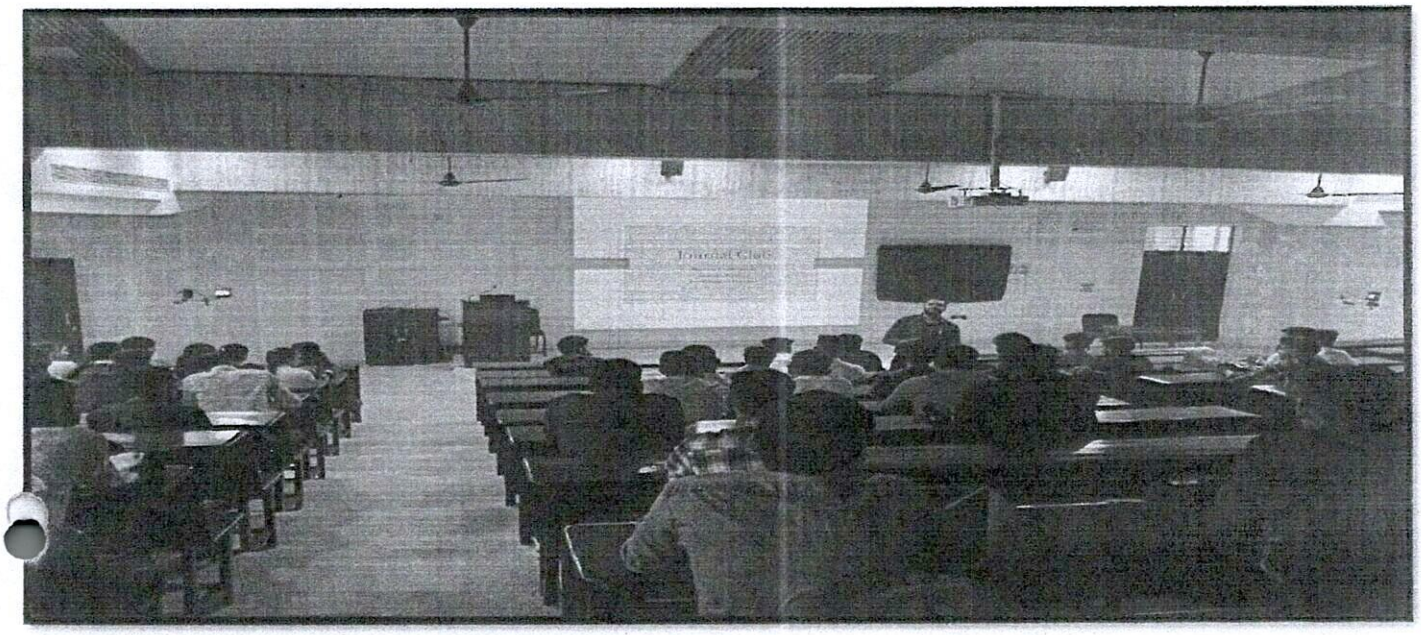






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Bareilly International University,
Bareilly

Activity Report Format

Academic Session: 2023-2024

(Submitted to IQAC by Department/ Institute)

Name of Department / Institute	BIU College of Pharmacy		
Name of Dean/ Principal	Dr. Pushpendra Kannojia		
Coordinator/ Convener of the activity	Dr. Shailendra Kr. Verma & Dr. Sanjeev Kumar		
Email ID and contact number of Convener of the activity	Official email id:	Sanjeevsaini640@gmail.com	
	Contact No.:	7417189767	
Name of the Activity/ Program/ Event/ Function	National Pharmacy Education Day		
Date(s) and day of the activity	6th March 2024		
Venue of the activity	LT-13		
Relevant documents (please√ the relevant)	Circular	Yes	
	Brochure	No	
	No of participants along with List		Yes
	Attendance sheet(s)	Yes	
	Report of the event (along with ***Geotagged*** photographs) (1-4, depicting the event)	Yes	
	Certificate(s)* (5 Sample photocopies)	No	
	Another document (if any) Attach the document		
Any other relevant information			

(Principal/Dean)

(Coordinator/ Convener of the Activity)

Report on Pharma Anveshan-2024 Lecture Celebration

Date: 06/03/2024
Venue: LT-13, RMCH
Prepared by: Dr. Sanjeev Kumar

Introduction:

The BIU College of Pharmacy celebrated the "Pharma Anveshan-2024" event on 6th March 2024, in commemoration of Prof. Mahadeva Lal Schroff's birth anniversary, declared as "National Pharmacy Education Day" by the Pharmacy Council of India. The central theme for this year's celebration was "Leveraging Synergism: Industry-Academia Partnership for Implementation of National Education Policy, 2020."

Events:

Plantation Program: The day commenced with a Plantation Program, emphasizing environmental sustainability. Faculty members actively participated in this initiative, contributing to the college's commitment to environmental conservation.

Special Lecture:

Title: "Leveraging Synergism: Industry-Academia Partnership for Implementation of National Education Policy, 2020"

Dr. Shushil Kumar Thakur, *Registrar of Bareilly International University,* served as the esteemed guest speaker. The lecture addressed the vital role of collaboration between the pharmaceutical industry and academia in implementing the National Education Policy, 2020.

The speaker shared profound insights, drawing on his rich knowledge and experience in the field, making it an invaluable opportunity for all attendees.

Dr. Shailendra Kumar Verma, *Professor, BIU college of Pharmacy*, highlighted Prof. Mahadeva Lal Schroff's significant role. Dr. Verma praised Prof. Schroff for shaping pharmacy education in India and contributing immensely to the pharmaceutical industry.

Dr. Verma acknowledged Prof. Schroff's dedication and groundbreaking efforts, recognizing his pivotal role in making pharmacy a respected profession. He emphasized how Prof. Schroff's contributions set the stage for the growth and importance of pharmacy in the country.

Discussing the pharmacy profession's current state, Dr. Verma shared 2022 statistics. India had a total of 1,686,342 registered pharmacists, with Maharashtra leading at 330,605 and Uttar Pradesh following closely with about 227,732 registered pharmacists. These numbers underscored the profession's significance and the commitment of states like Maharashtra and Uttar Pradesh to building a strong pharmacy workforce.

Dr. Verma also explained why the government declared Prof. Schroff's birth anniversary as "National Pharmacy Education Day." He pointed out that this special day honors Prof. Schroff's exceptional vision and tireless efforts in enhancing pharmacy education standards. The

government's acknowledgment reflects Prof. Schroff's lasting impact on shaping the pharmacy profession in India.

Attendance and Participation:

Faculty members, staff, and students actively participated in both the Plantation Program and the Special Lecture.

The lecture hall (LT-13) was filled to capacity, showcasing a high level of interest and engagement from the academic community.

Key Takeaways:

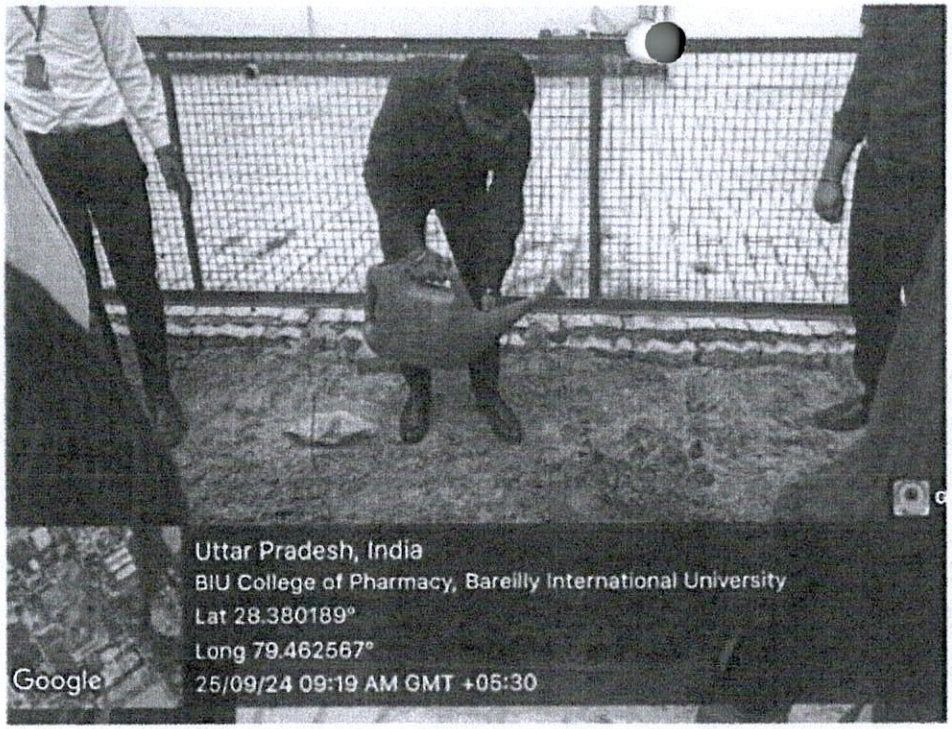
1. The lecture highlighted the evolving dynamics of the pharmaceutical industry and the education system.
2. Emphasis on collaborative efforts between academia and the industry for the successful implementation of the National Education Policy, 2020.
3. **Dr. Shushil Kumar Thakur** *Registrar Bareilly International University* insights provided a comprehensive understanding of the challenges and opportunities within the pharmacy education sector.
4. **Dr. Shailendra Kumar Verma** highlighted Prof. Schroff's pivotal role in shaping pharmacy education in India.
5. **Dr. Shailendra Kumar Verma's** insights added depth and significance to the Pharma Anveshan-2024 event.

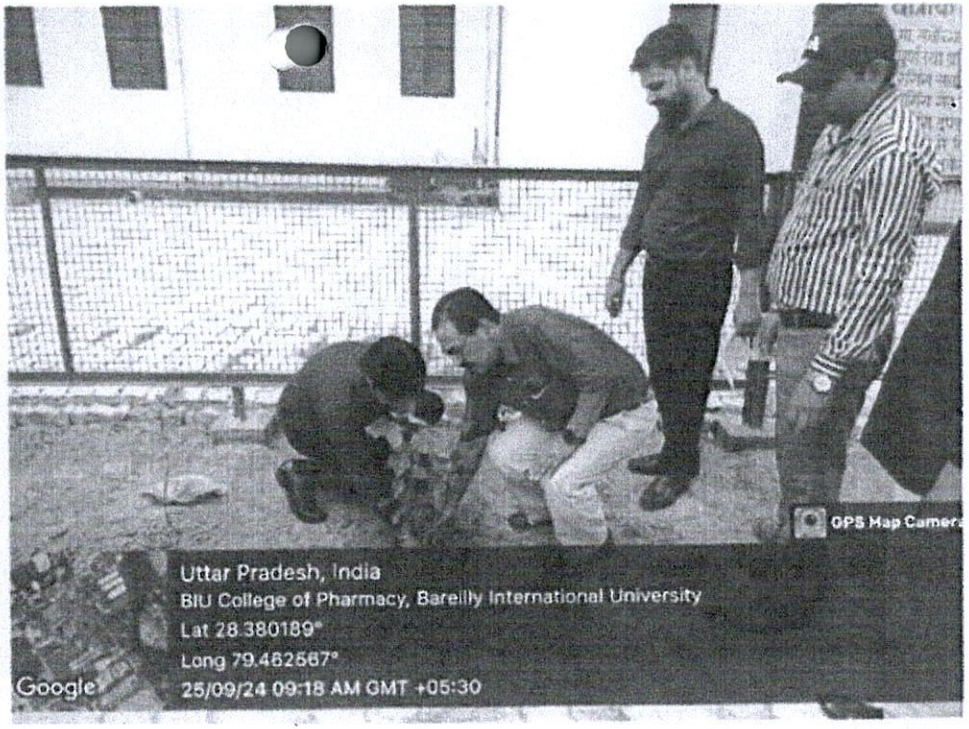
Conclusion:

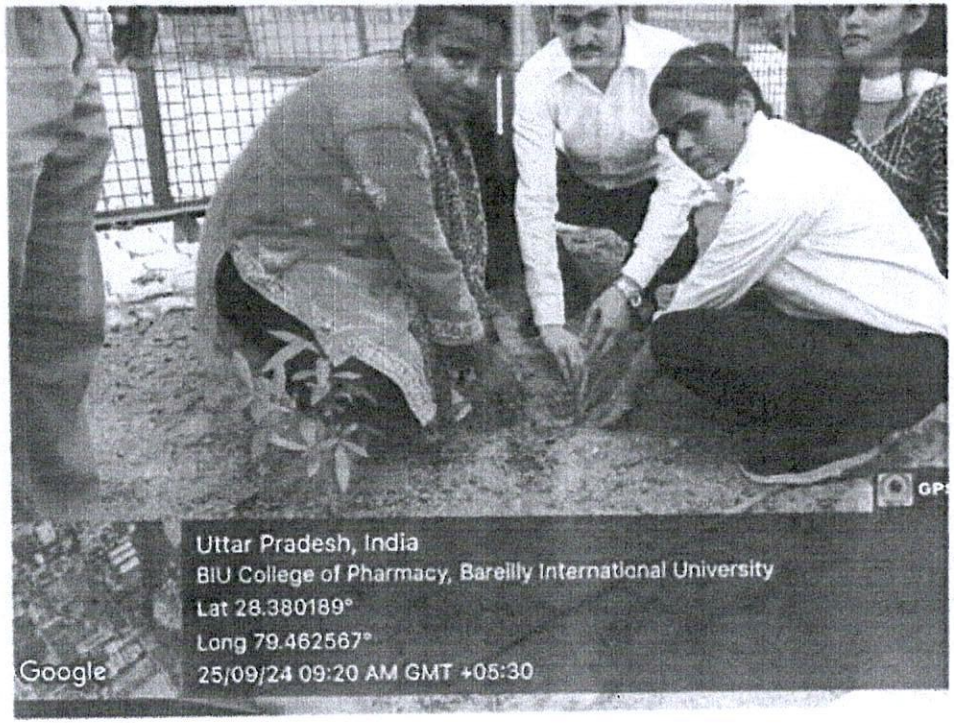
The Pharma Anveshan-2024 event at BIU College of Pharmacy was a resounding success, fostering a spirit of collaboration and knowledge exchange. The engagement of faculty members, staff, and students in both the Plantation Program and the Special Lecture exemplified the commitment to advancing pharmacy education in alignment with national policies. The college expresses gratitude to Dr. Shushil Kumar Thakur for his enlightening lecture and looks forward to continued collaboration and growth in the field.

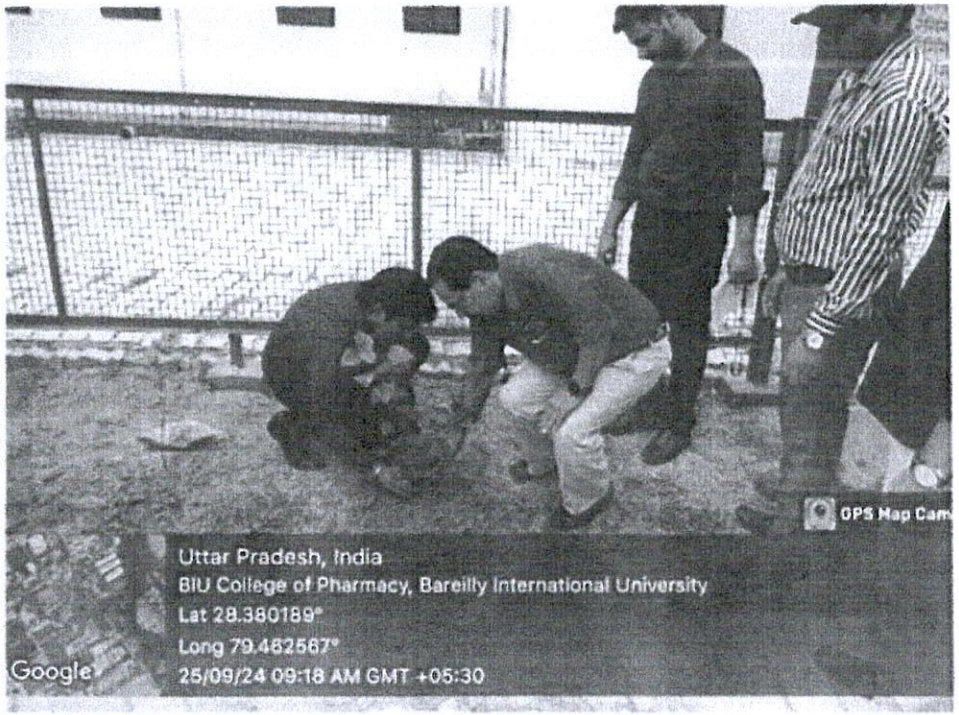
Best regards,

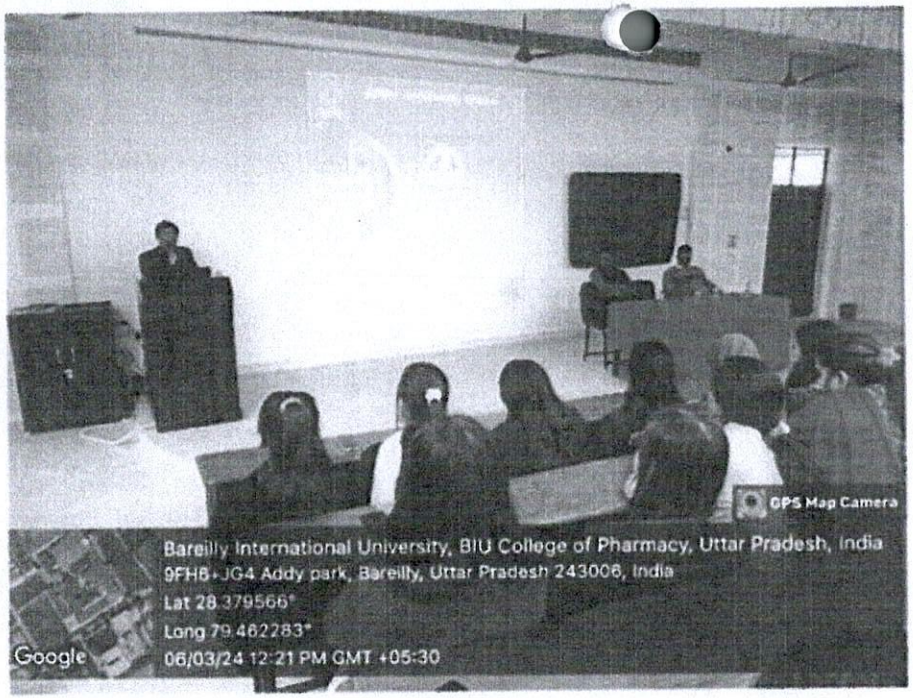
Dr. Sanjeev Kumar
Professor
BIU College of Pharmacy

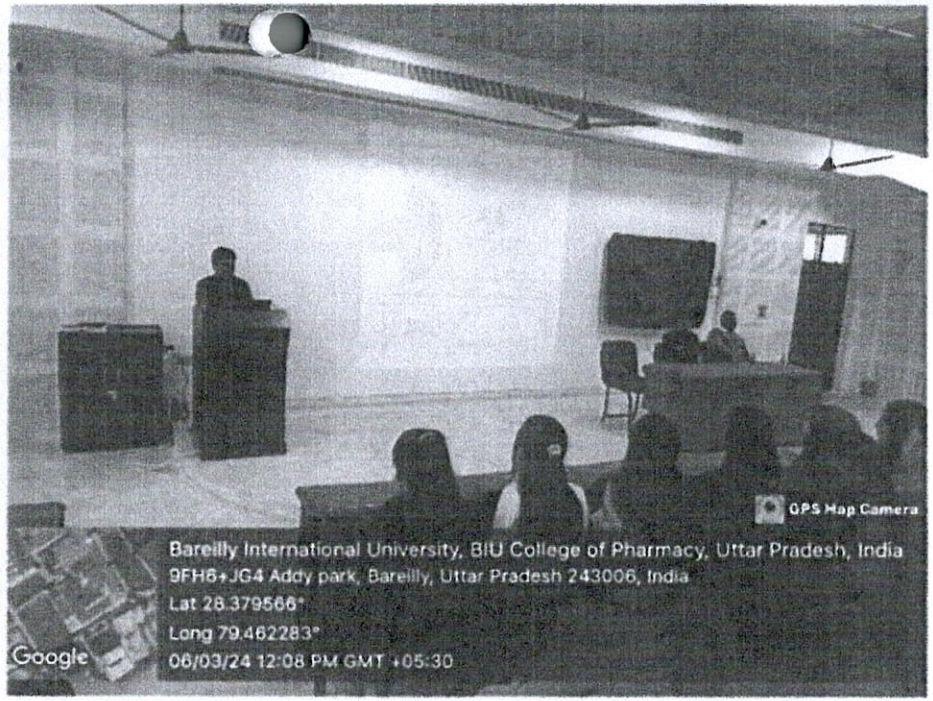

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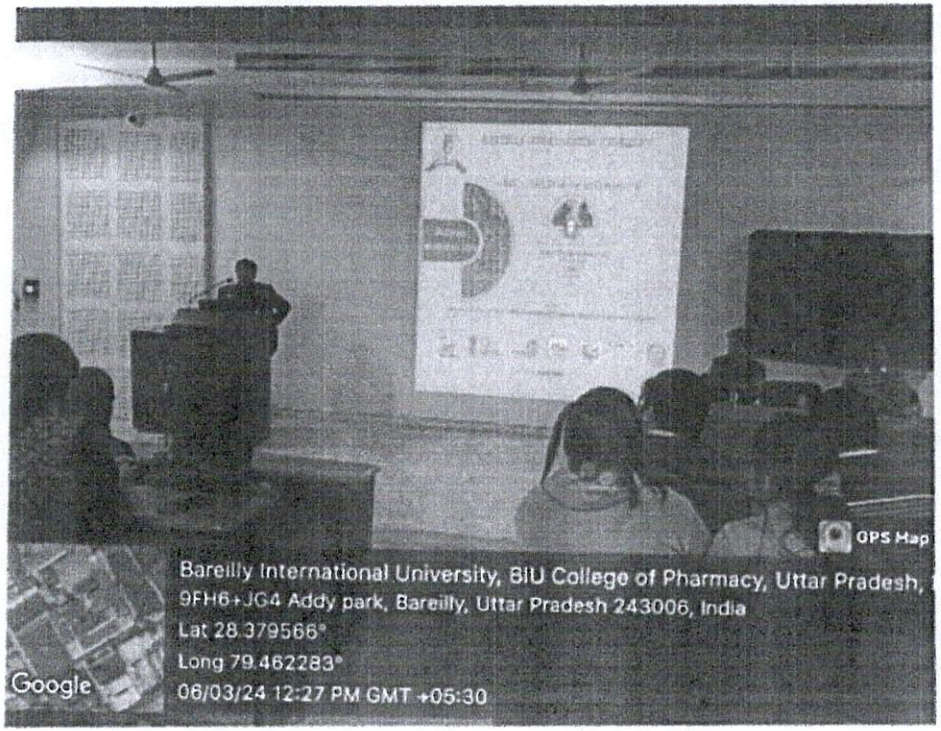

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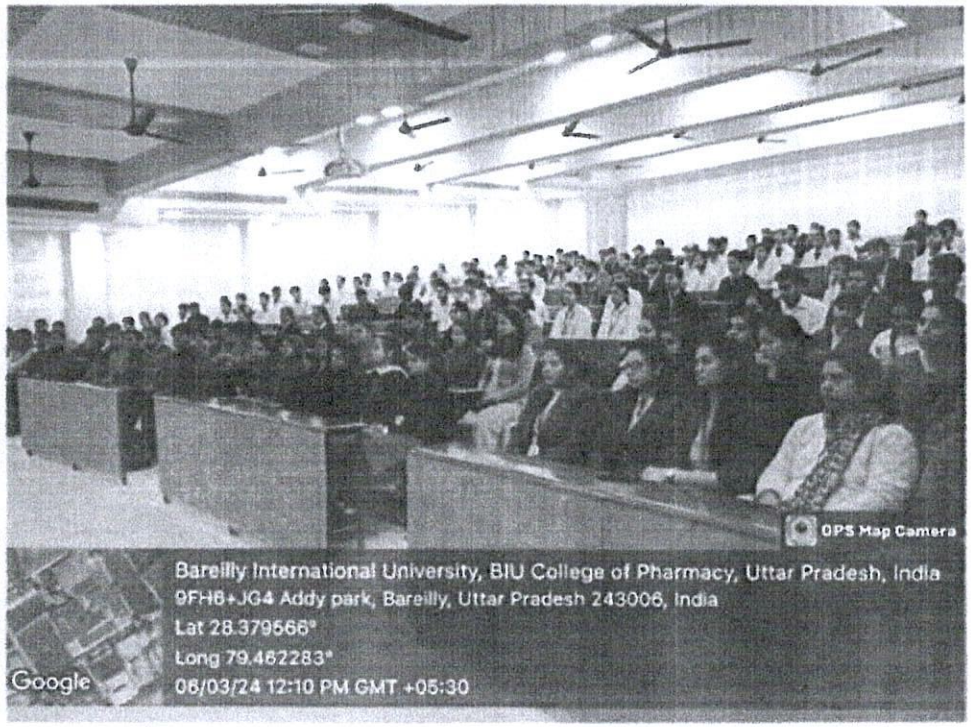

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Bareilly International University,
Bareilly

Activity Report Format

Academic Session :

(Submitted to IQAC by Department/ Institute)

Name of Department / Institute	BIU College of Pharmacy		
Name of Dean/ Principal	Dr. Pushpendra Kannojia		
Coordinator/ Convener of the activity	Dr. Pushpendra Kannojia		
Email ID and contact number of Convener of the activity	Official email id:	biuworkshopconference@gmail.com	
	Contact No.:	+918865080485	
Name of the Activity/ Program/ Event/ Function	1st National Conference on "Advances in Pharmaceutical Biotechnology: Innovations, Trends and Challenges" (APBITC-2024)		
Date(s) and day of the activity	27th January 2024, Saturday		
Venue of the activity	Auditorium, Rohilkhand medical College & Hospital, Bareilly		
Relevant documents (please√ the relevant)	Circular	Yes / No	
	Brochure	Yes / No	
	No of participants along with List	Yes	Yes / No
	Attendance sheet(s)	Yes / No	
	Report of the event (along with ***Geotagged*** photographs) (1-4, depicting the event)	Yes / No	
	Certificate(s)* (5 Sample photocopies)	Yes / No	
	Other document (if any) Attach the document	Conference committees, Program Schedule	
Any other relevant information	Speakers details, filled Registration form, conference feedback forms, Newspaper Report.		

* Provide the "Signed" soft and hard copy of all requisite documents

* If Certificates/ any other document not provided/ not applicable: kindly mention.

22/03/24

(Principal/Dean)

22/03/24

(Coordinator/ Convener of the Activity)

BIU COLLEGE OF PHARMACY
Rohilkhand Medical College Campus, Pilibhit by Pass Road, Bareilly. (U.P) – 243006 INDIA
Phone:- 0581-2526011, 2526012 (EPABX) Fax: 2526054, 2303345
E-mail: info@rmcbareilly.com, www.rmcbareilly.com

Ref. No. – PHR/2023-A/2024 **Date: 29/01/2024**

Report

1st National Conference
Advances in Pharmaceutical Biotechnology
Innovations Trends & Challenges (APBITC-2024)

Day: Saturday

Date: 27th January 2024

Organizing secretary: Mr. Pankaj Kumar Shankhdhar

The one day 1st National conference on the topic of **"Advances in Pharmaceutical Biotechnology Innovations Trends & Challenges"(APBITC-2024)** was held on 27th January 2024 at BIU College of Pharmacy in **Rohilkhand Medical College & Hospital Campus, Bareilly International University, Bareilly.**

Prof. (Dr.) Kamla Pathak, Dean, faculty of Pharmacy, Uttar Pradesh University of Medical Sciences, Saifai, Etawah U.P and **Prof (Dr.) Jagannath Sahoo,** Dean, NMINS, Mumbai were invited to deliver the lecture for the delegates and to develop skills among students for their future prospects.

Program was started with lamp lighting ceremony. **Dr. Pushpendra Kannojia**, Principal of BIU College of Pharmacy, welcomed the experts with bouquet.

Prof (Dr.) Kamla Pathak delivered lecture on **"How Monoclonal antibodies works on the cancer cells".**

Prof (Dr.) Jagannath Sahoo explains advances in Pharmaceutical Biotechnology Innovations Trends & Challenges.

Students from different Pharmacy courses were actively participated in the National conference and learn various skills through oral & poster presentations.

The conference was organized under the supervision of **Dr. Pushpendra Kannojia,** Principal of BIU College of Pharmacy, Bareilly International University Bareilly.

Mr. Pankaj Kumar Shankhdhar was the organizing secretary of the conference and the organizing core committee members were:

Prof. (Dr.) Pankaj Mishra

Prof. (Dr.) Pradeep Singh

Prof. (Dr.) Shailendra Kumar Verma

All the Principals and Vice-Principals of Bareilly & nearby Bareilly region presented their views in the program and were also honored by the program committee members.

Various committees' members arranged the conference for their grand success. The advisory committee, co-advisory committee and local organizing committee of the conference worked together to organize the program. The first national conference was organized with the program coordinator and his team.

For the conference, delegates, students, research scholars, industry Professionals and academicians gave presentations on their research areas. Best paper award was given in the program session. Along with this, oral presentation and poster presentation were also organized for which research scholar **Ms. Anshika Chaudhary,** was awarded for best oral presentation and **Mr. Omkar,** student of M. Pharm. Pharmacology of TMU Moradabad, was awarded for best poster presentation.

Bareilly International University Chancellor **Dr. Keshav Kr. Agarwal** and Vice Chancellor **Dr. Lata Agarwal** congratulated the entire Pharmacy team for the successful organization of the one-day conference. At the end of the program, vote of thanks was delivered by **Mrs. Richa Gangwar** (Assistant Professor) BIU College of Pharmacy; she expressed her gratitude to the entire pharmacy team, the faculty members, academicians and students present and the representatives from all over the country for successful organization of the conference.

29/01/2024

Pankaj Kr. Shankhdhar
Organizing Secretary
APBITC- 2024

29/01/2024

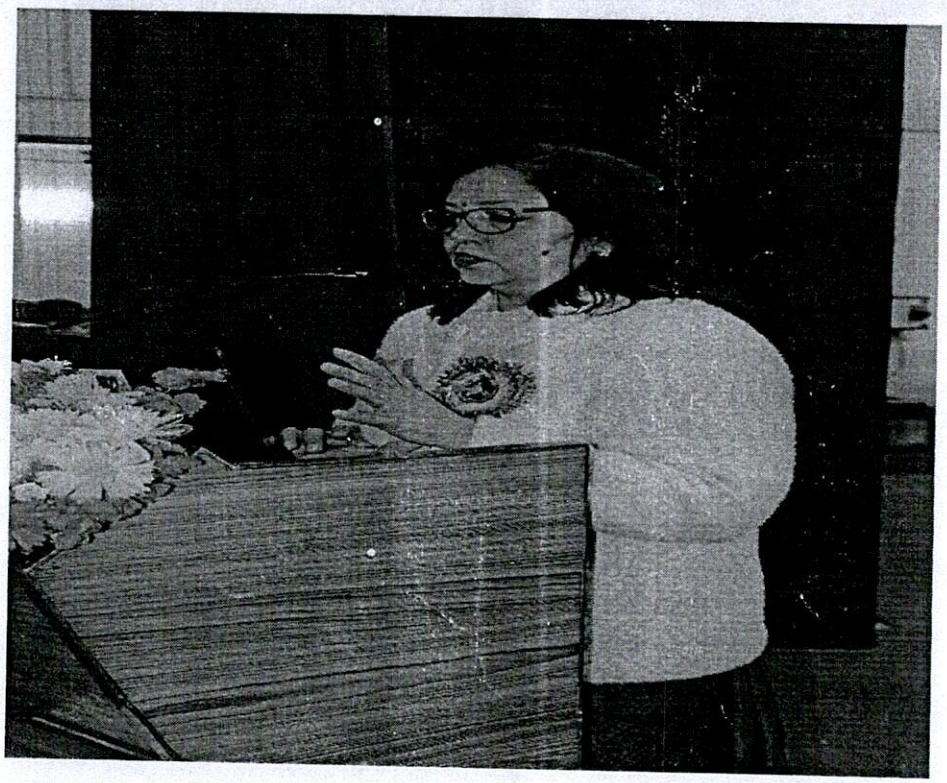
Dr. Pushpendra Kannojia
Principal
BIU College of Pharmacy


JANUARY, 2024




GPS Map Camera
1st National Conference, Bareilly International University, BIU College of Pharmacy, Bareilly, UP, India
Lat 28.380166°
Long 79.460343°
27/01/24 12:12 PM GMT +05:30
Google


BAREILLY INTERNATIONAL UNIVERSITY
1ST NATIONAL CONFERENCE
ADVANCES IN PHARMACEUTICAL BIOTECHNOLOGY: INNOVATIONS TRENDS AND CHALLENGES" (APBITC - 2024)



Bareilly International University, Bareilly

Activity Report

Academic Session:

(Submitted to IQAC by Department/ Institute)

Name of Department / Institute	BIU College of Pharmacy		
Name of Dean/ Principal	Dr Surendra Kanaujia		
Coordinator/ Convener of the activity	Ms. Babita Sharma		
Email ID and contact number of Convener of the activity	Official email id:	Biucollegeofpharmacy@gmail.com	
	Contact No.:	8950322282	
Name of the Activity/ Program/ Event/ Function	International Womens day-2024		
Date(s) and day of the activity	08 March 2024		
Venue of the activity	Seminar Hall		
Relevant documents (please√ the relevant)	Circular	Yes / No	
	Brochure	Yes / No	
	No of participants along with List	61	Yes / No
	Attendance sheet(s)	Yes / No	
	Report of the event (along with ***Geotagged*** photographs) (1-4, depicting the event)	Yes / No	
	Certificate(s)* (5 Sample photocopies)	Yes / No	
	Other document (if any) Attach the document		
Any other relevant information			

(Principal/Dean)

Ms. Babita

(Coordinator/ Convener of the Activity)

BAREILLY INTERNATIONAL UNIVERSITY

BIU COLLEGE OF PHARMACY

"International Women's Day, 2024"

Theme: "Invest in Women: Accelerate Progress"

Date: 08/03/2024

International Women's Day celebrates the fact that women around the world are united and has been fighting to create an equal platform for all irrespective of gender discrimination.

With immense pleasure BIU College of Pharmacy, Bareilly International University, Bareilly feels honoured to celebrate International Women's Day on 08th March, 2024.

The celebration started with motivational words on Women Empowerment by our Chief Guest, Mrs. Shikha Singh, Assistant Professor, Rohilkhand College of Nursing. She motivates the women by giving examples of Indira Gandhi, Mother Teresa, Kalpana Chawla etc. She also told the power of women in the form of goddess Saraswati and Kali.

Vice Chancellor of the University, Dr. Lata Agarwal mam gave her blessings and shared her views on importance of women in the society. She talked about Women Entrepreneurship which is necessary to initiate the process of economic development of both developed and developing countries as it is backbone of economy of any country.

(Prof.) Dr. Pushpendra Kannaujia, Principal, BIU College of Pharmacy, Bareilly International University, Bareilly also addressed the female staff and students on the occasion of Women's Day celebration.

Followed by address of Vice Chancellor and Principal sir various games were planned for female staff and students like One Word Five Uses, Pictionary, Team Building game, Dumb Charades etc. The judges for smoothly running of activities were Dr. Shailendra Kumar Verma, Mr. Paras Kumar Prajapati and Dr. Prashant Gupta.

The winners were Mrs. Shubhangi Tiwari, Assistant Professor, Faculty of Paramedical Sciences and Ms. Muskan Malik, Faculty of Paramedical Sciences in One Word Five Uses. Ms. Gulafsha Saifi, Assistant Professor, Faculty of Paramedical Sciences and Ms. Shreya Bhardwaj, Assistant Professor, Faculty of Paramedical Sciences in Pictionary. Ms. Sakeena Jamil, Assistant Professor, Faculty of Paramedical Sciences in Team Building game and last but not the least, there was the tie between two teams Dr. Sumbul Khan, Assistant Professor, Faculty of Paramedical Sciences and Ms. Gulafsha Saifi, Assistant Professor, Faculty of Paramedical Sciences (Team A) and Ms. Sheekha Kumari, Assistant Professor, Faculty of Paramedical Sciences, and Ms. Urusia Parveen, Assistant Professor, Faculty of Paramedical Sciences (Team B).

After that gifts were presented to all the winners by our juri team.

The celebration was Coordinated by Ms. Babita Sharma, Associate Professor, BIU College of Pharmacy and Ms. Himanshi, Assistant Professor, BIU College of Pharmacy.

The program ended with vote of thanks by Ms. Anshika Chaudhary, Assistant Professor, BIU College of Pharmacy and refreshment to all.

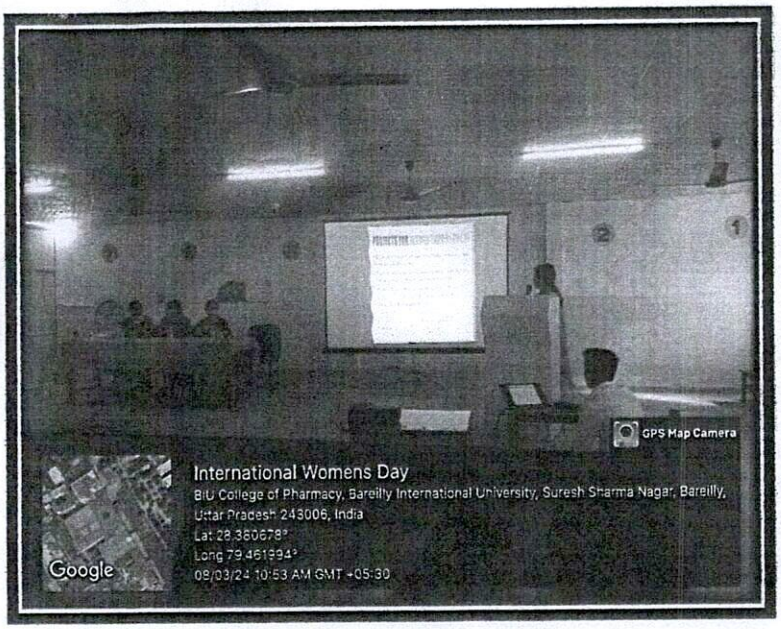
08/03/2024

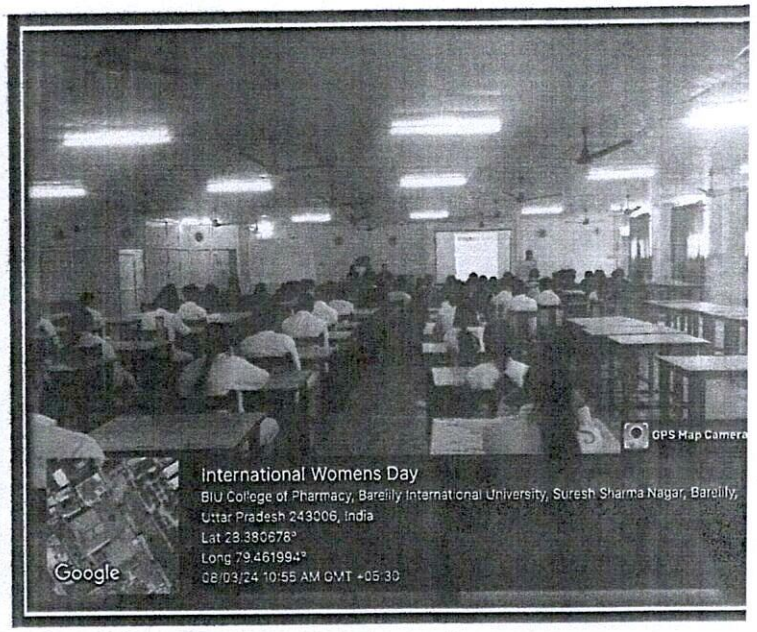
(Principal)

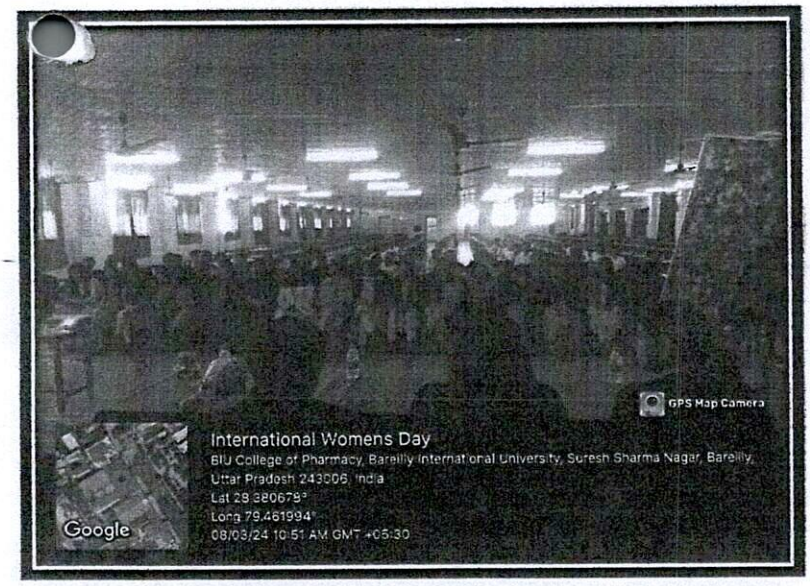
(Coordinator)

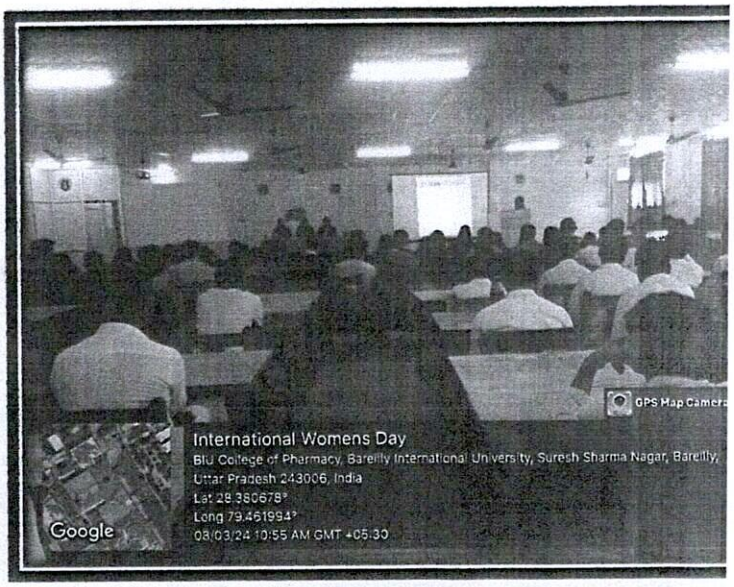
1.) Ms. Babita

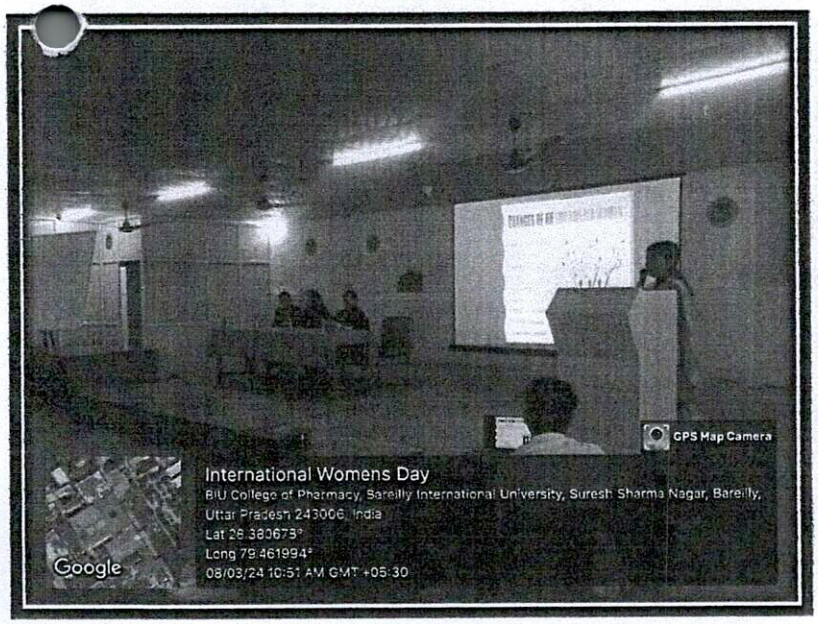
2) Ms. Himanshi

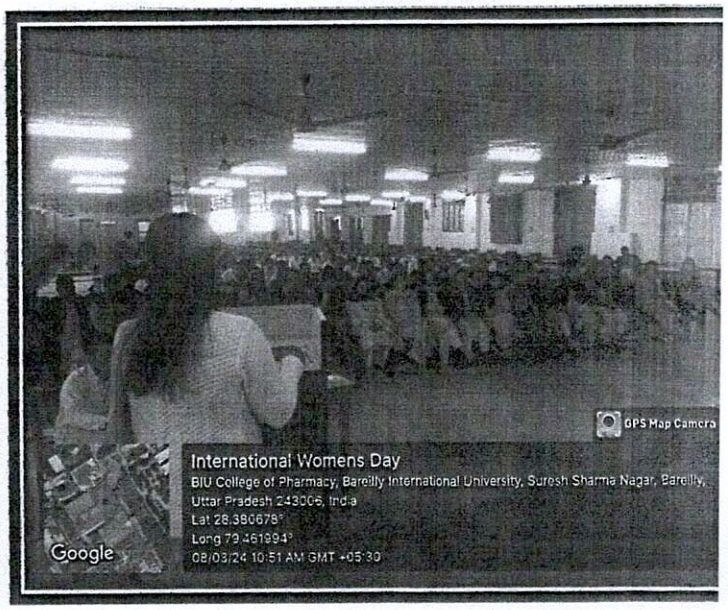

GPS Map Camera
International Womens Day
BIU College of Pharmacy, Bareilly International University, Suresh Sharma Nagar, Bareilly, Uttar Pradesh 243006, India
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Long 79.461994°
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Google


GPS Map Camera
International Womens Day
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08/03/24 10:51 AM GMT +05:30
Google

Bareilly International University, Bareilly

Activity Report Format

Academic Session:

(Submitted to IQAC by Department/ Institute)

Name of Department / Institute	BIU College of Pharmacy		
Name of Dean/ Principal	Dr. Pushpendra Kannojia		
Coordinator/ Convener of the activity	Dr. Sanjeev Kumar		
Email ID and contact number of Convener of the activity	Official email id:	sanjeevsaini640@gmail.com	
	Contact No.:	7417189767	
Name of the Activity/ Program/ Event/ Function	Lecture on : World Hypertension Day		
Date(s) and day of the activity	Friday		
Venue of the activity	LT-1, BIU College of Pharmacy		
Relevant documents (please√ the relevant)	Circular	Yes	
	Brochure	No	
	No of participants along with List	80	Yes
	Attendance sheet(s)	Yes	
	Report of the event (along with ***Geotagged*** photographs) (1-4, depicting the event)	Yes	
	Certificate(s)* (5 Sample photocopies)	No	
	Other document (if any) Attach the document	No	
Any other relevant information			

* Provide the "Signed" soft and hard copy of all requisite documents

* If Certificates/ any other document not provided/ not applicable: kindly mention.

for 17/05/2024

(Principal/Dean)

PRINCIPAL
BIU COLLEGE OF PHARMACY
BAREILLY

17/05/2024

(Coordinator/ Convener of the Activity)

BAREILLY INTERNATIONAL UNIVERSITY
BIU COLLEGE OF PHARMACY

A

Report on

"Hypertension Awareness Activities"

(From May 17th to June 5th 2024)

INTRODUCTION

BIU College of Pharmacy, Bareilly International University, Bareilly organized "Hypertension Awareness Activities" on the occasion of "World Hypertension Day, 2024". The theme for this year is 'Measure Your Blood Pressure Accurately, Control It, and Live Longer' (From May 17th to June 5th 2024).Focusing on the theme, following activities were conducted:-

Activity series

S.No	Date	Day	Event	Coordinator
1.	17/05/2024	Friday	A lecture on World Hypertension Day	Mr. Rajneesh Kumar Singh
2.	20/05/2024	Monday	Presentation on B.P. measurement by Manual method	Ms. Mitushi Singh
3.	20/05/2024	Monday	Presentation on B.P. measurement by Digital method	Ms. Sonali
4.	21/05/2024	Tuesday	Oral Presentation	Mr. Rajneesh Kumar Singh
5.	23/05/2024	Thursday	Poster Presentation	Mr. Yogendra Singh
6.	24/05/2024	Friday	Exercise Demonstration	Ms. Sonali
7.	27/05/2024	Monday	Practice of heart rate Demonstration by stethoscope	Mr. Yogendra Singh
8.	30/05/2024	Thursday	Demonstration on BMI measurement	Ms. Sonali
9.	01/06/2024	Saturday	Presentation on Preparation of BP log Chart	Mr. Rajneesh Kumar Singh
10.	05/06/2024	Wednesday	Presentation on Dietary Plans Schedule activity	Ms. Sonali

World Hypertension Day is observed every year to spread awareness about the risk of hypertension and its prevention. This day serves as a reminder to manage your blood pressure which is crucial for maintaining good health. World Hypertension Day is aimed at raising

24/06/2024

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attention on the importance of a better hypertension control. Its purpose is to communicate to the public the importance of hypertension and its serious medical complications, and to provide information on its prevention, detection, and management. All students from various courses of Pharmacy and staff members (Teaching & Non-Teaching) actively Participated and gave their contribution with full enthusiasm.

All activities were organized under the guidance of Dr. Pushpendra Kannojia, Principal, BIU College of Pharmacy, Bareilly International University, Bareilly.

24/06/2024

Principal

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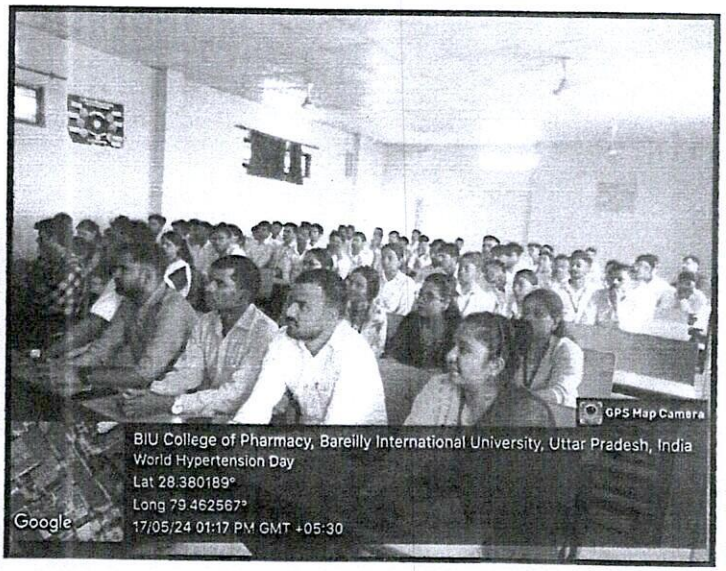
Activity-1

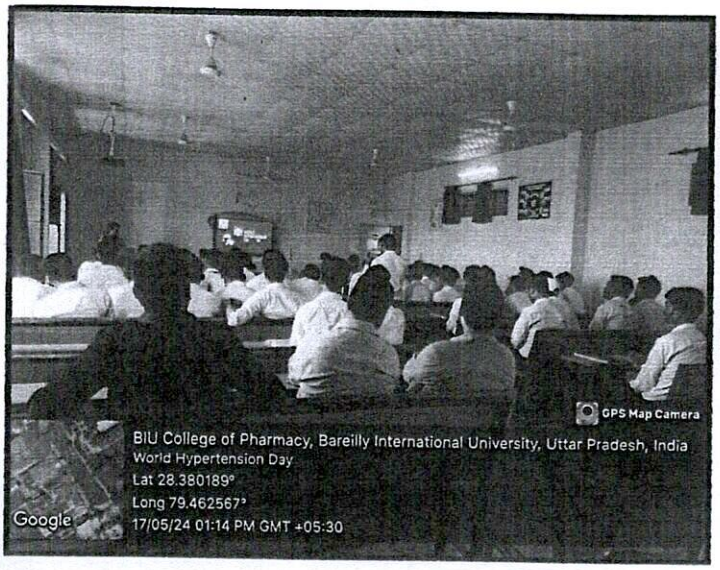
Lecture on "World Hypertension Day"

Date: 17/05/2024
Day: Friday
Venue- LT-1

Mr.Rajneesh Kumar Singh, Associate Professor, BIU College of Pharmacy , Bareilly International University , Bareilly delivered a lecture on the topic of World Hypertension Day, 2024" which is observed every year to spread awareness about the risk of hypertension and its prevention. The theme for this year is 'Measure Your Blood Pressure Accurately, Control It, and Live Longer'.

The lecture was concentrated on various modifiable risk factors which include unhealthy diets (excessive salt consumption, a diet high in saturated fat and trans fats, low intake of fruits and vegetables), physical inactivity, consumption of tobacco and alcohol, and being overweight or obese. In addition, there are environmental risk factors for hypertension and associated diseases, where air pollution is the most significant. Non-modifiable risk factors include a family history of hypertension, age over 65 years and co-existing diseases such as diabetes or kidney disease.





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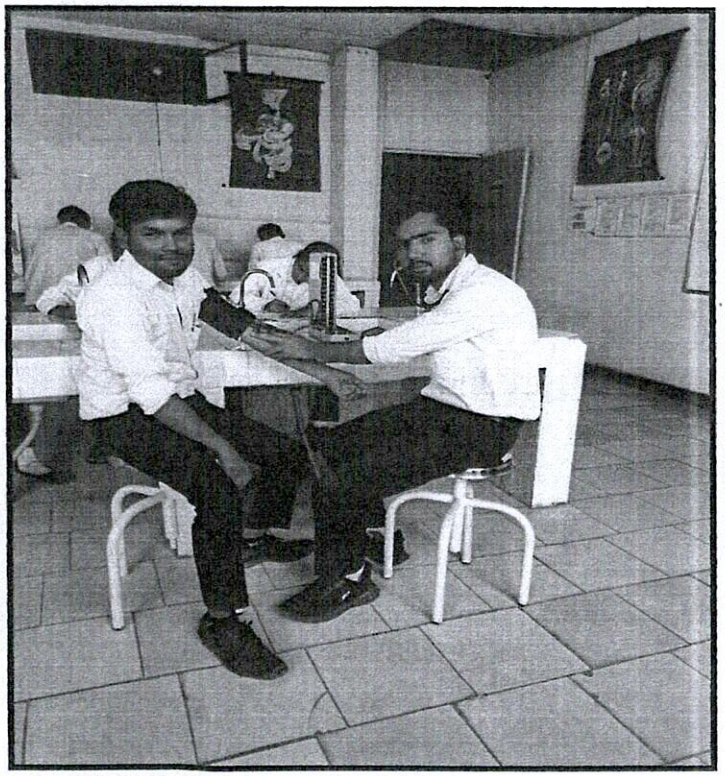
Activity-2

Presentation on B.P.measurement by Manual method

Date: 20/05/2024
Day: Monday
Venue- Pharmacology and Physiology Lab

Ms. Mitushi Singh, Assistant Professor, BIU College of Pharmacy , Bareilly International University , Bareilly Conducted a practice session to explain students about the manual measurement of blood pressure with the help of sphygmomanometer. She explain about the construction of sphygmomanometer which consist of an inflatable arm cuff, a bulb pump for pumping air into the cuff and a valve for letting air out of the cuff, a column of mercury, to display the changing pressure and a pressure meter which measures the air pressure with the help of rising mercury. In addition, a stethoscope is also used to listen the sounds of blood flowing through the brachial artery.

After explaining the construction she demonstrated the working of sphygmomanometer to the students that how are cuff tied correctly on arm, in late it properly, listening the sound in stethoscope and recording the BP . After that students practice this technique to their classmates and learned to measure blood pressure of each other to get expertise in measuring blood pressure.





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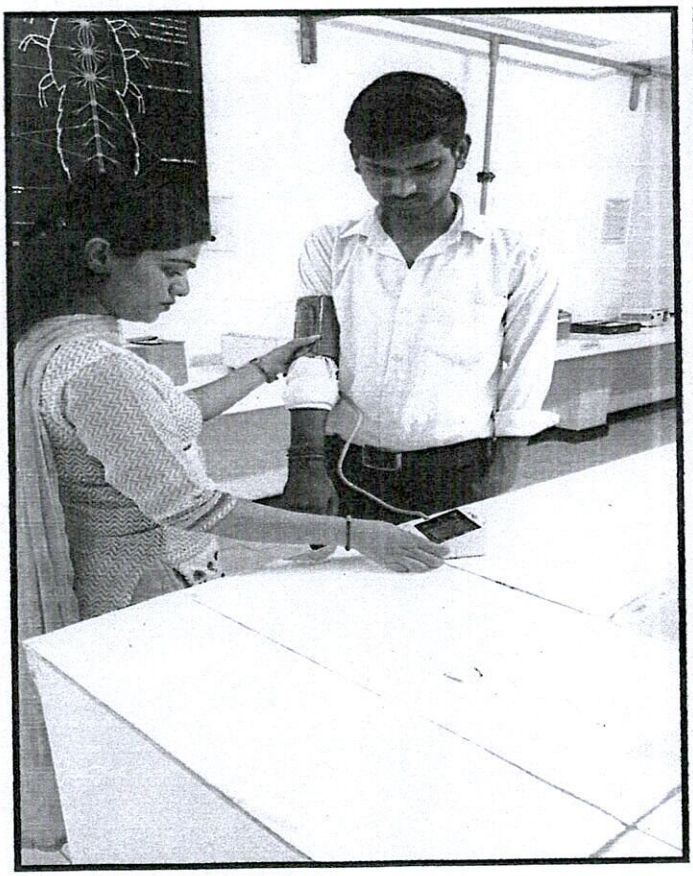
Activity-3

Presentation on B.P.measurement by Digital method

Date: 20/05/2024
Day: Monday
Venue- Pharmacology and Physiology Lab

Ms. Sonali, Assistant Professor, BIU College of Pharmacy, Bareilly International University, Bareilly Conducted a practice session to explain students about the measurement of blood pressure with the help of Digital BP apparatus. She explained the importance of measuring your blood pressure for your health record keeping and checking your heart condition. She explained the superiority of digital BP apparatus over the manual Sphygmomanometer.

During the session, she demonstrated the stepwise working of digital BP apparatus. She explained the proper cuff use to the arm and poisoning of the apparatus for correct measurement of the blood pressure. Students asked the questions about use of BP apparatus and discussed the common mistakes people does during operating the apparatus.





24/05/24

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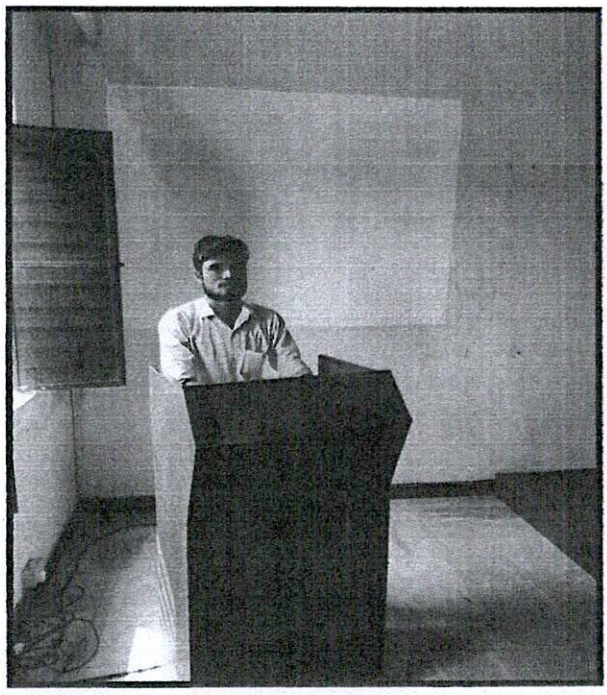
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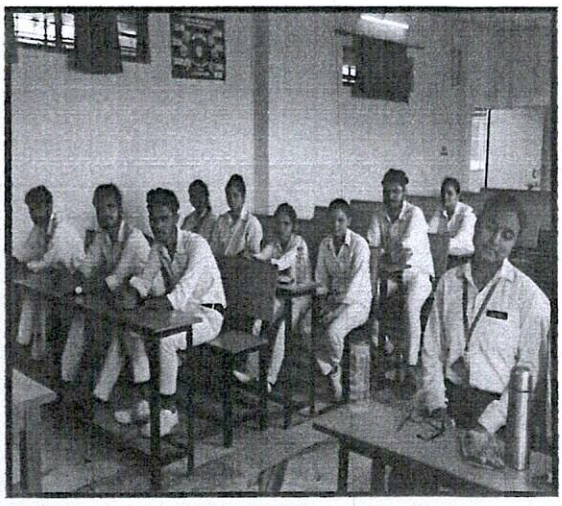
Oral Presentation

Date: 21/05/2024
Day: Tuesday
Venue- LT-1

Mr.Rajneesh Kumar Singh, Associate Professor, BIU College of Pharmacy , Bareilly International University , Bareilly presented a speech on the topic of Hypertension to spread awareness about the risk of hypertension and its prevention and motivated the students to present their views on this topic.

Students presented their views on the Hypertension, its causes, its complications like retinopathy, stroke, heart attack and chronic renal failure, and vary remedies which are proven beneficial for the prevention of rising hypertension globally.





Rajneesh 24/05/24

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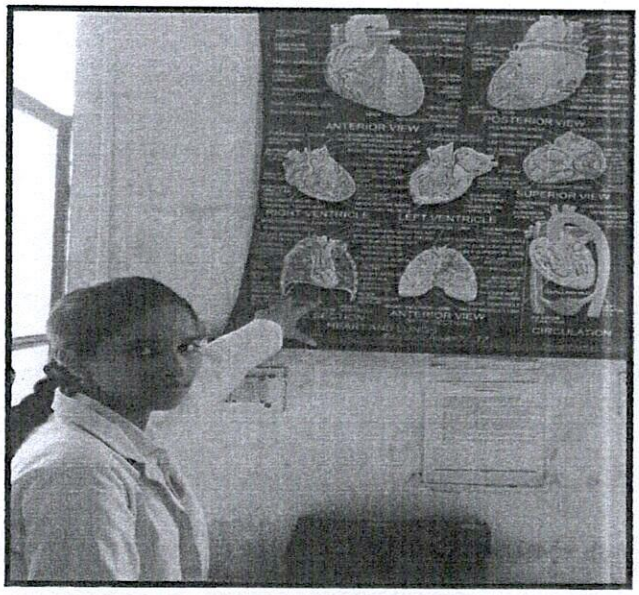
Activity-5

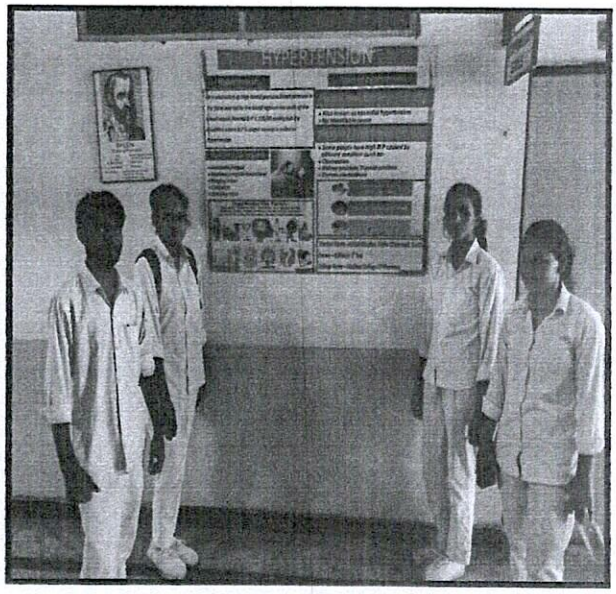
Poster Presentation

Date: 23/05/2024
Day: Thursday
Venue- corridor and labs

Mr. Yogendra Singh, Assistant Professor, BIU College of Pharmacy, Bareilly International University, Bareilly Conducted a poster presentation session aware the students about the rising concern on the issue of hypertension worldwide. He showed the light on celebrating the world hypertension day globally to raise awareness among the people about the silently rising fatal problem of hypertension.

Students got to know about the causes, complications associated with hypertension, its normal ranges in humans, and various medications are being used worldwide to treat the hypertension. He also explained the anatomy and working of normal heart versus anatomy and working of a diseased heart. He told the students about wrong life style lead to diseased heart and how healthy life style modifications can reverse these conditions.





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Activity-6

Exercise Demonstration

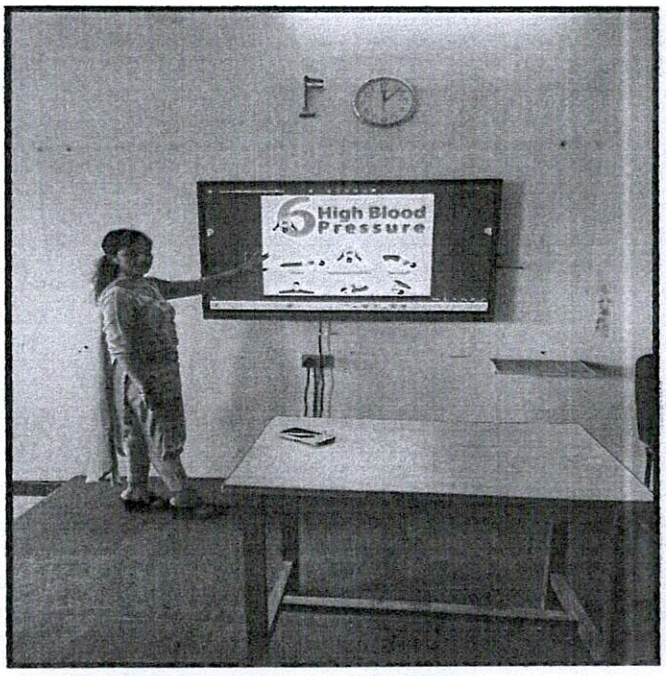
Date: 24/05/2024
Day: Friday
Venue- LT-1

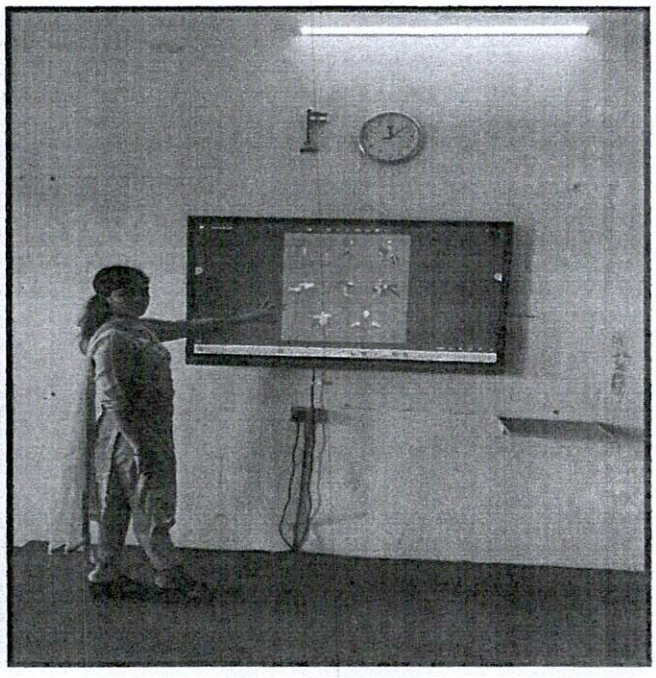
Ms. Sonali, Assistant Professor, BIU College of Pharmacy, Bareilly International University, Bareilly Conducted a session regarding demonstration of exercises . She explained the role of exercises in the managing of your blood pressure. She told the Students about the risk of high blood pressure, increases with age. But getting some exercise can make a big difference. If your blood pressure is already high, exercise can help you control it. Regular exercise makes the heart stronger. A stronger heart can pump more blood with less effort. As a result, the force on the arteries decreases. This lowers blood pressure.

She showed in her slides that any activity that increases the heart and breathing rates is considered aerobic activity like

- Active sports, such as basketball or tennis
- Bicycling
- Climbing stairs
- Dancing
- Jogging
- Swimming
- Walking

A combination of aerobic and weight training seems to provide the most heart-healthy benefits.





24/05/24

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Activity-7

Practice of heart rate Demonstration by Stethoscope

Date: 27/05/2024
Day: Monday
Venue- Pharmacology and Physiology Lab

Mr. Yogendra Singh, Assistant Professor, BIU College of Pharmacy , Bareilly International University , Bareilly Conducted a demonstration session to teach the students about taking the heart rate reading by using the stethoscope. The activity aimed to educate participants about the significance of monitoring heart rate for assessing cardiovascular health.

During the session students learned to take heart rate reading using stethoscope. They learned how to place stethoscope on chest and listening the heart sounds. Participants actively engaged in practicing the technique and discussing its application in hypertension management.





Rajeev 24/06/24

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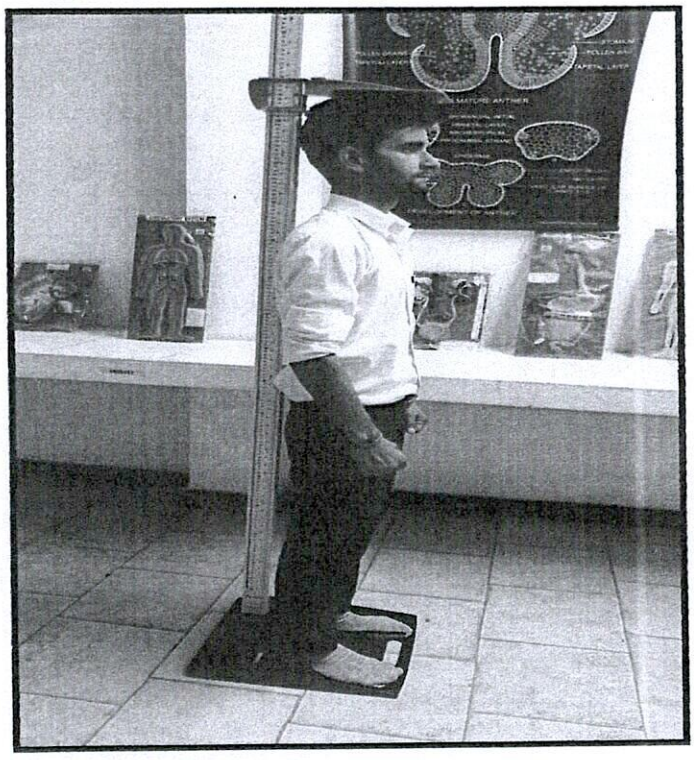
Activity-8

Demonstration on BMI measurement

Date: 30/05/2024
Day: Thursday
Venue- HAP Lab

Ms. Sonali, Assistant Professor, BIU College of Pharmacy , Bareilly International University , Bareilly Conducted a practice session to measure Body Mass Index (BMI). The session conducted with the aim of educating the students to assess the cardiovascular health using the body weight and body height measurements.BMI is an estimate of body fat and a good gauge of your risk for diseases that can occur with more body fat. The higher you're BMI, the higher your risk for certain diseases such as heart disease, high blood pressure, type 2 diabetes, gallstones, breathing problems, and certain cancers.

During the session students learned to calculate BMI using body weight and height. They learned how to take weight of body using weighing machine and take the body height using meter. Participants actively engaged in practicing the technique and discussing its application in hypertension management.





24/06/24

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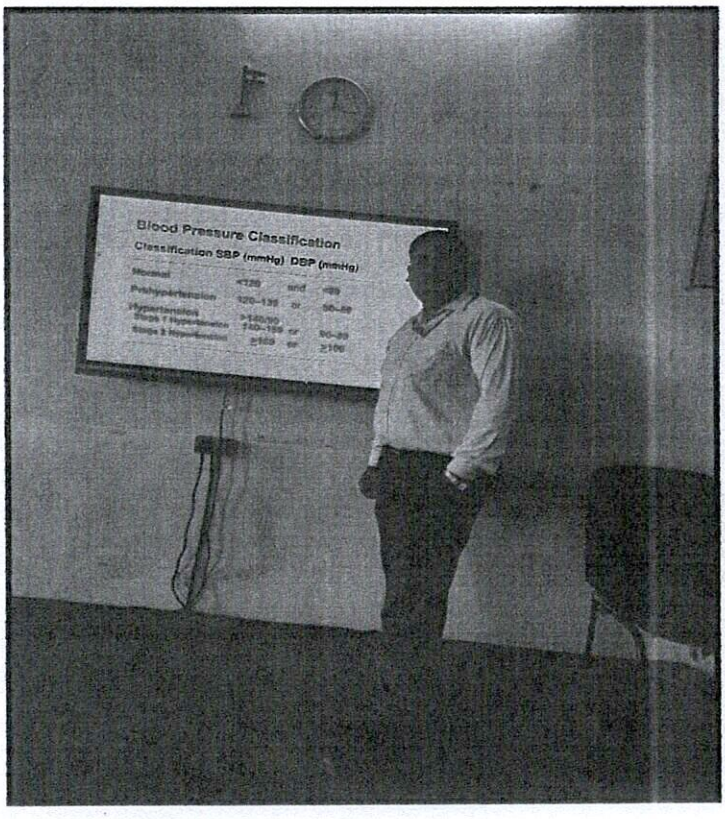
Activity-9

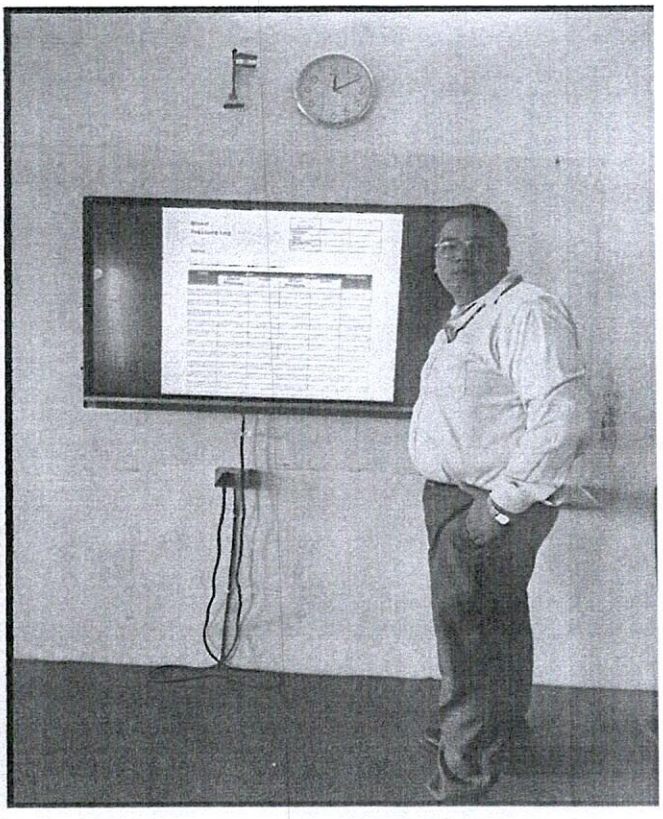
Presentation on Preparation of BP log Chart

Date: 01/06/2024
Day: Saturday
Venue- LT-1

Mr.Rajneesh Kumar Singh, Associate Professor, BIU College of Pharmacy, Bareilly International University, Bareilly delivered a lecture on the topic Preparation of BP log Chart. He discussed the role of BP log Chart in the management of Hypertension. He told the students that you can use the log to record the blood pressure and heart rate (pulse) readings you take at home and note the date and time of day you take them. Write the blood pressure with the systolic number on the left and diastolic number on the right: 120/80 for example. Bring this log with you when you talk to your health care provider.

The American Heart Association recommends home monitoring for all people with high blood pressure to help their health care professional know if treatments are working. For achieving the same BP log chart preparation is very important. Students learned how to prepare BP log chart.





24/06/24

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Activity-10

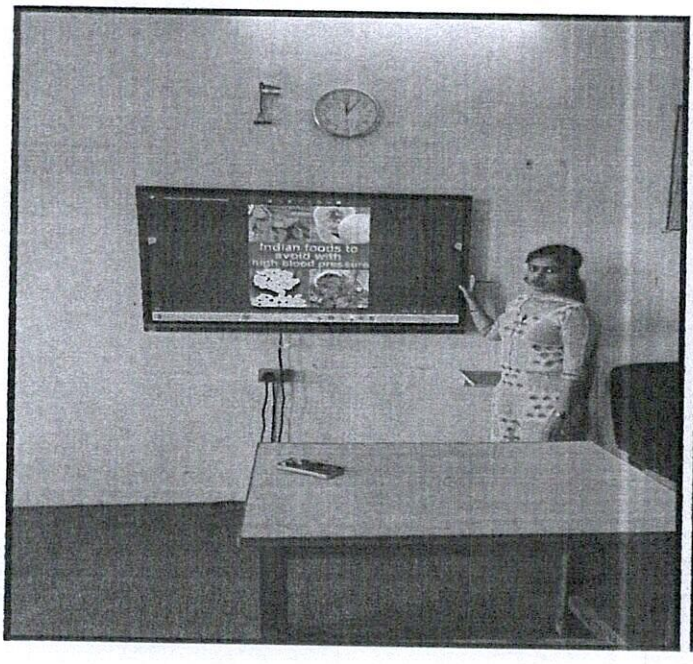
Presentation on Dietary Plans Schedule activity

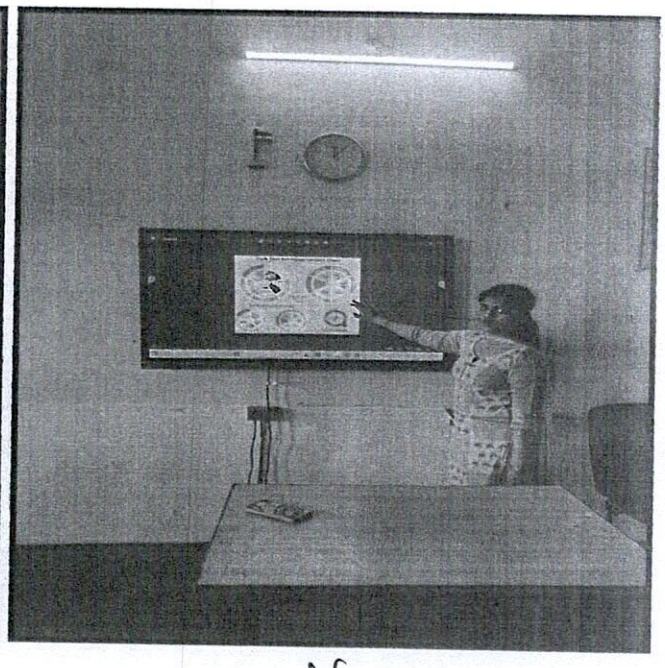
Date: 05/06/2024
Day: Wednesday
Venue- LT-1

Ms. Sonali, Assistant Professor, BIU College of Pharmacy, Bareilly International University, Bareilly Conducted a presentation on dietary plans schedule for a hypertensive patient. She explained that you are at a higher risk of hypertension if: you eat too much salt; you don't eat enough fruit and vegetables; you are not active enough; you are overweight, or you drink too much alcohol. You can help to lower your blood pressure by following high blood pressure meal plan which lowers your risk of stroke and heart attack by making certain lifestyle changes in food habits.

Add these food items and habits in your lifestyle if you are having high blood pressure:

1. Eat less salt
2. Include more fruits and vegetables
3. Include whole grain cereals
4. Maintain a healthy weight.
5. Include lean meat, fish and poultry.
6. Include lowfat dairy products.





24/06/24

**********END**********

24/06/2024

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BAREILLY

BAREILLY INTERNATIONAL UNIVERSITY, BAREILLY, U.P (INDIA)

BIU College of Pharmacy

Report on World Hypertension Day Celebrated at BIU College of Pharmacy,

Date: May 17, 2024

Venue: LT-1, BIU College of Pharmacy, Bareilly Interaction University

On May 17, 2024, BIU College of Pharmacy celebrated World Hypertension Day with great enthusiasm and participation. The event aimed to raise awareness about hypertension, its management, and prevention strategies.

Dr. Shailendra Kumar Verma, Professor at BIU College of Pharmacy, extended a warm welcome to the guest speaker for the event, Mr. Rajneesh Kumar Singh, Department of Pharmacology, who is an esteemed associate professor at BIU College of Pharmacy Mr. Rajneesh Kumar Singh delivered an insightful lecture on the pathophysiology of hypertension, elucidating various causes, classifications, and accurate methods for measuring blood pressure. He extensively discussed the selection of antihypertensive medications, their mechanisms of action, as well as their benefits and adverse effects. Moreover, he emphasized the importance of avoiding certain medication combinations to ensure optimal patient care.

The lecture was followed by an interactive session where attendees engaged in discussions and posed questions to deepen their understanding of hypertension and its management.

A vote of thanks was extended by Professor Dr. Shailendra Kumar Verma, expressing gratitude to Mr. Rajneesh Kumar Singh for his informative session. The event was skillfully coordinated by Dr. Sanjeev Kumar, ensuring its smooth conduct and active participation from all attendees.

Overall, the World Hypertension Day celebration at BIU College of Pharmacy was a resounding success, fostering greater awareness and knowledge among students, faculty, and healthcare professionals about hypertension and its treatments.

17/05/2024

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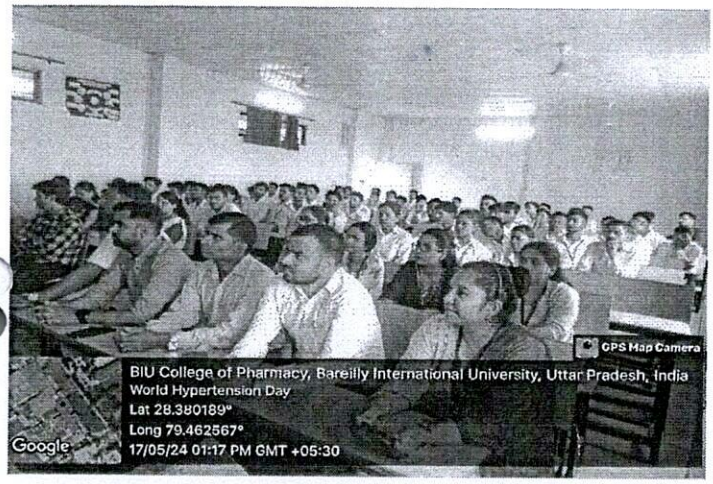
Dr Sanjeev Kumar

BAREILLY INTERNATIONAL UNIVERSITY, BAREILLY, U.P (INDIA)

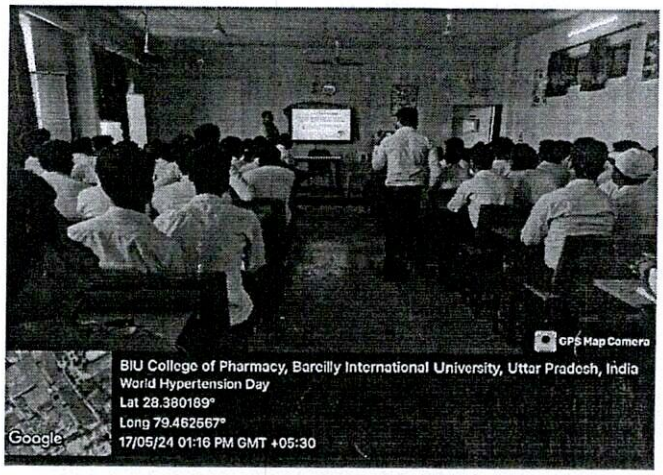
BIU College of Pharmacy

Glimpse of World Hypertension Day

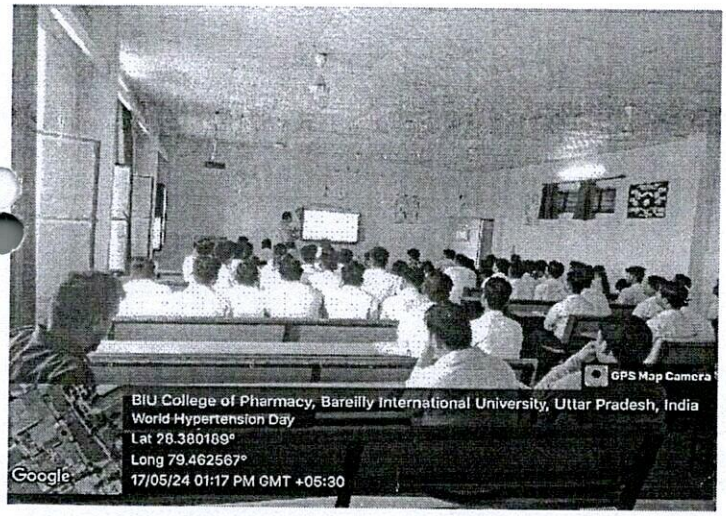
17th May 2024



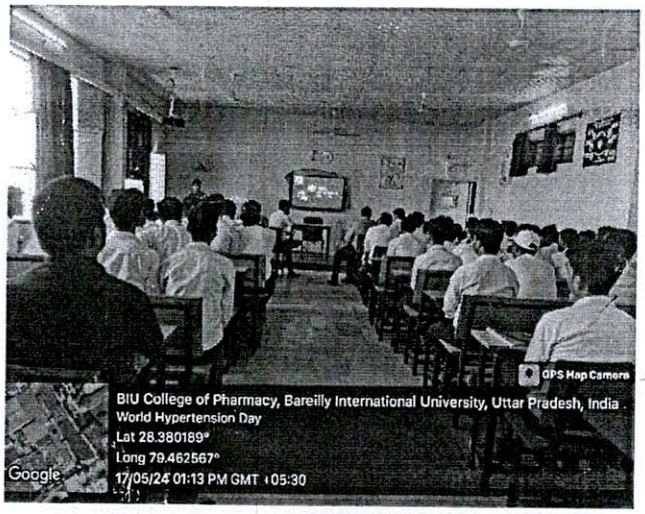
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Dr. Shailendra Kr Verma

17/5/2024

PRINCIPAL
BIU COLLEGE OF PHARMACY
BAREILLY

Dr Sanjeev Kumar

Bareilly International University,
Bareilly

Activity Report

Academic Session:

(Submitted to IQAC by Department/ Institute)

Name of Department / Institute	BIU College of Pharmacy		
Name of Dean/ Principal	Dr. Pushpendra Kannojia		
Coordinator/ Convener of the activity	Ms. Babita Sharma		
Email ID and contact number of Convener of the activity	Official email id:	BIUcollegeofPharmacy@gmail.com	
	Contact No.:	8950322282	
Name of the Activity/ Program/ Event/ Function	Guest Lecture on Nutrition Habbits for a Healthy life		
Date(s) and day of the activity	29/02/2024 Thursday		
Venue of the activity	Multipurpose Hall, Rohilkhand School of Pharm		
Relevant documents (please√ the relevant)	Circular	Yes / No✓	
	Brochure	Yes / No✓	
	No of participants along with List	40	Yes / No✓
	Attendance sheet(s)	Yes / No✓	
	Report of the event (along with ***Geotagged*** photographs) (1-4, depicting the event)	~~Yes~~ / No	
	Certificate(s)* (5 Sample photocopies)	~~Yes~~ / No	
	Other document (if any) Attach the document		
Any other relevant information			

(Principal/Dean)

(Coordinator/ Convener of the Activity)

BAREILLY INTERNATIONAL UNIVERSITY

B.I.U COLLEGE OF PHARMACY

Date: 29-02-24

Day: Thursday

Time: 10:00 a.m. – 11:00 a.m.

Event: Guest Lecture on Nutrition Habits for a Healthy Life

Venue: Multipurpose Hall, Rohilkhand School of Nursing.

Event Overview: A Guest Lecture on Nutrition Habits for a Healthy Life was presented by Ms. Babita Sharma, Associate Professor of B.I.U College of Pharmacy. During the lecture topics such as intake of Proper Balanced Diet, avoid to eat Fast food like Burger, Pizza, sandwiches, Noodle, Hot dogs, and ice cream, etc. Drinking 7-8 glasses of water, regular exercises and having proper meal at time should be included in our daily life to stay healthy and happy. During the event all faculties and students of Rohilkhand School of Nursing were present. At the end of lecture students and some faculty members also shared their views what they have learnt from the lecture.

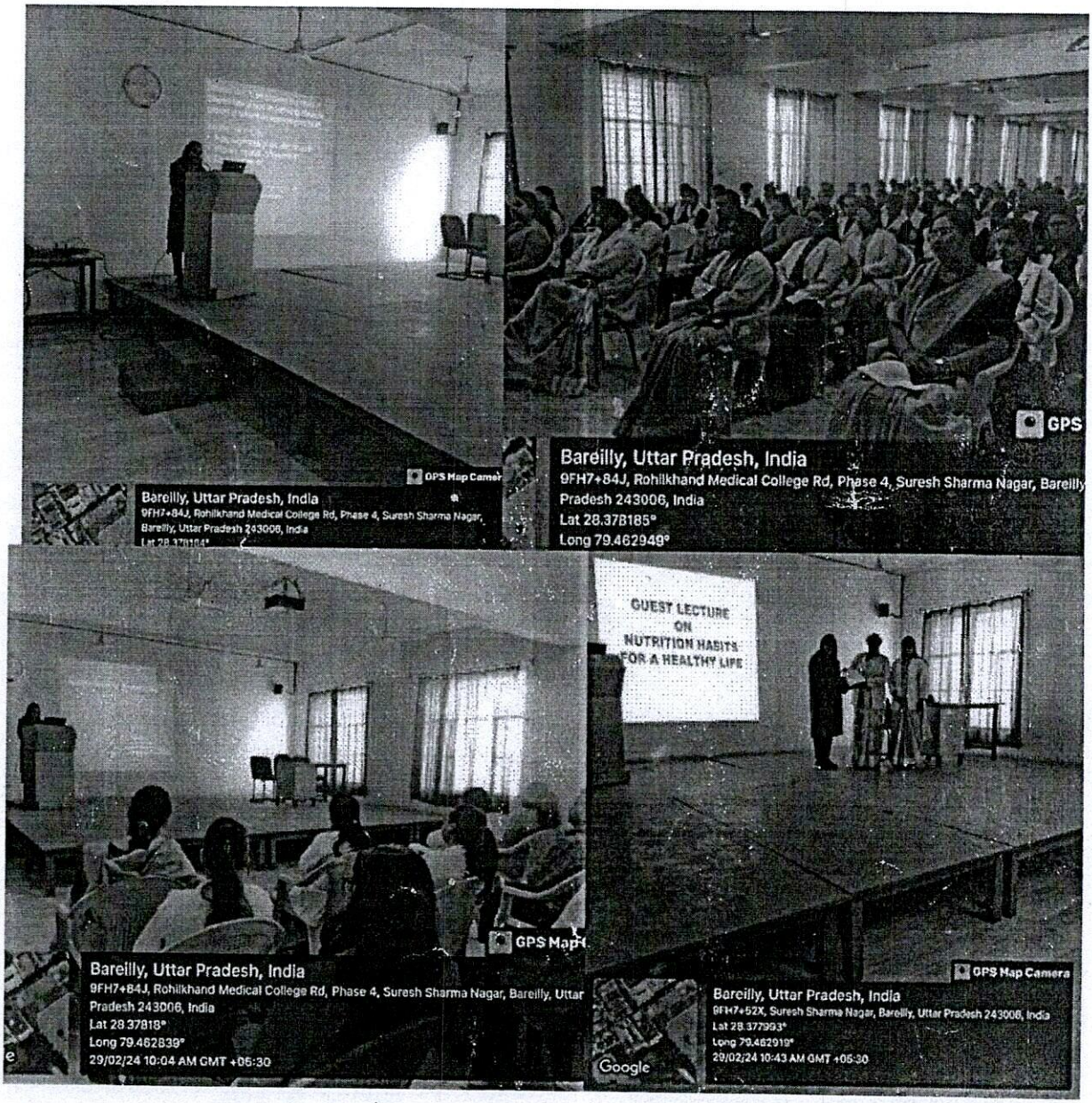
Dr. Priyanka Principal of Rohilkhand School of Nursing provided insights into the healthy habits and awarded a certificate of appreciation and token of Respect to Guest and appreciate for these types of motivational talks to be done in future also. Vote of thanks is given by Mrs. Ashvani, P.G Tutor of Rohilkhand School of Nursing.

Guest Lecturer

29/02/24

Principal

Photographs of Event



29/02/24

ROHILKHAND SCHOOL OF NURSING

Rohilkhand Medical College Campus Pilibhit Bypass Road, Bareilly. (U.P.) 243006 INDIA
Phone : 0581-2526011, 2526012 (EPABX) Fax : 0581-2526054, 2303345
e-mail : info@rmcbareilly.com, www.rmcbareilly.com

Ref. No. RSN/1154 /2024 **Date:- 29/02/2024**

CERTIFICATE OF APPRECIATION

This is to certify that **Ms. Babita Sharma,** Associate Professor of BIU College of Pharmacy, presented guest lecture on Nutrition Habits for a Healthy Life to faculties & students in our institute. Your ideas & input were most helpful & have assisted us in making valuable improvements to our teaching program.

29/02/2024

Principal

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ROHILKHAND SCHOOL OF NURSING
BAREILLY

BAREILLY INTERNATIONAL UNIVERSITY, BAREILLY
BIU COLLEGE OF PHARMACY
Pilibhit by Pass Road, Bareilly. (U.P) – 243006 INDIA

Report on "Road Safety Awareness Program"
Conduct on 05/01/2023 to 04/02/2023

BIU College of Pharmacy and National Service Scheme (NSS) of Bareilly International University organized "Road Safety Awareness Program" on the occasion of "Road Safety Awareness Month 2023" (from 05/01/2023 to 04/02/2023).

Every year central and state Government plans a program of "National Road Safety Awareness Month" for this year with the aim of reducing the road accidents and decrease victims at the end of this year. As a part of this BIU College of Pharmacy, Bareilly International University, Bareilly (U.P.) and NSS, Bareilly International University, Bareilly organized various programme and events for creating awareness in students, staffs and faculty members. Dr. Pushpendra Kannojia, Principal, BIU College of Pharmacy said that this program creating traffic awareness among student was very important as it makes them aware about the importance of their and other life. Student should come forward and follow the traffic rules obediently. Hon'ble Vice Chancellor Dr. Lata Agarwal, Bareilly International University, congratulate to all for this program.

1. Event Name:- Oral Presentation

Topic:- Road Safety

Date:- 14/01/2023

Venue:- BIU College of Pharmacy

Faculty Incharge:- Mr. Balbir Singh

Ms. Megha Yadav

Dr. Sumbul Khan PT

Road Safety Oral Presentation is one of the most effective way to educate students about the various dangerous present on the road with the aim and awareness of the road accidents about **12 participant** of Pharmacy & Paramedical were participated in oral presentation competition. In the oral presentation winner's are:

1st Prize – Ritika Jain -BPT-3rd year

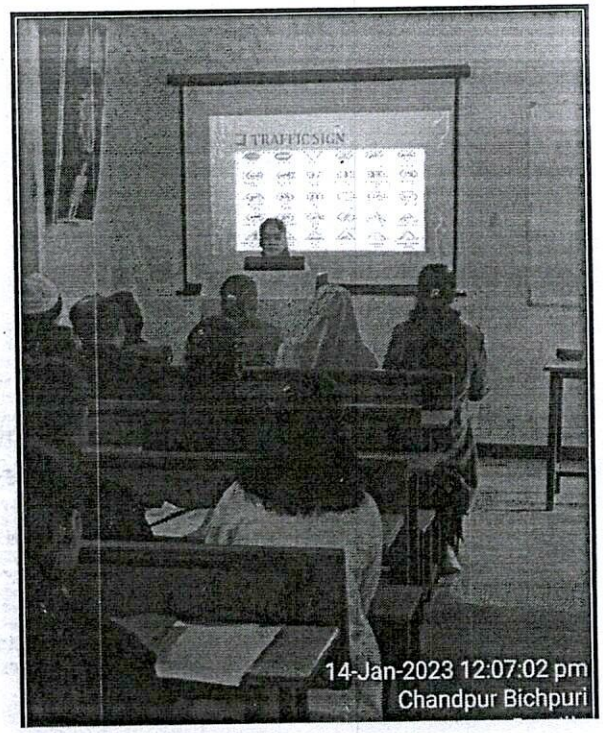
2nd Prize – Khushi - B.Sc. MLT 2nd Year

3rd Prize – Manjeet Kumar-BPT 3rd Year

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BIU COLLEGE OF PHARMACY
BAREILLY

Glimpses of Media Coverage





निबंध व भाषण में शिरीष और रितिका रहे अव्वल

कार्यालय संवाददाता, बरेली

कार्यक्रम

- **बरेली इंटरनेशनल यूनिवर्सिटी के कॉलेज ऑफ पैरामेडिकल साइंस और कॉलेज ऑफ फार्मेसी की ओर से हुई प्रतियोगिताएं**

अमृत विचार : बरेली इंटरनेशनल यूनिवर्सिटी के कॉलेज ऑफ पैरामेडिकल साइंस और कालेज ऑफ फार्मेसी के संयुक्त तत्वाधान में सड़क सुरक्षा माह मनाए जाने के संबंध में शनिवार को निबंध एवं भाषण प्रतियोगिता का आयोजन किया गया, जिसमें विभिन्न छात्र-छात्राओं ने भाग लिया। इसकी शुरुआत कॉलेज के प्राचार्य डा. पुष्पेंद्र कन्नौजिया ने की।

निबंध प्रतियोगिता में बीएससी ऑप्टोमेट्री के द्वितीय वर्ष के शिरीष को प्रथम, बीपीटी प्रथम वर्ष की नताशा को द्वितीय व डीफार्म प्रथम वर्ष की छात्रा शीतल को तृतीय स्थान मिला।

भाषण प्रतियोगिता में बीपीटी तृतीय वर्ष की रितिका ने प्रथम व एमएलटी द्वितीय वर्ष की खुशी ने द्वितीय व बीपीटी तृतीय वर्ष के छात्र मंजीत ने तृतीय स्थान प्राप्त किया। संचालन पैरामेडिकल साइंस कालेज की वरिष्ठ सहायक अध्यापिका डा. सुम्बुल खान, फार्मेसी विभाग के असिस्टेंट प्रोफेसर बलवीर सिंह व मेघा यादव ने किया।

PRINCIPAL
BIU COLLEGE OF PHARMACY
BAREILLY

2. Event Name:- Essay writing competition on Road Safety

Topic:- Road Safety

Date:- 14/01/2023

Venue:- LT-1, BIU College of Pharmacy

Faculty Incharge:- Dr. Sumbul Khan PT

Mr. Balbir Singh

Ms. Megha Yadav

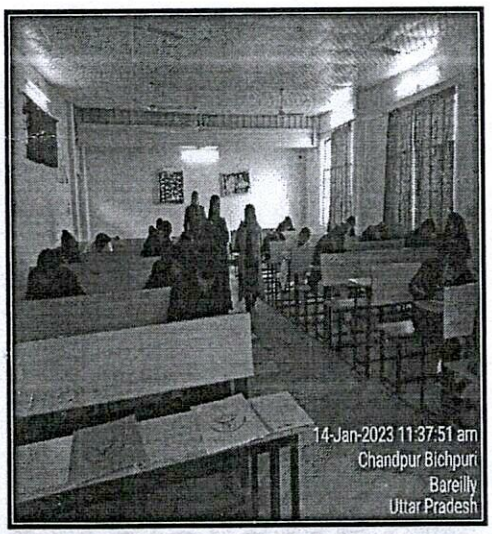
Road Safety Awareness is crucial because it helps to reduce the number of injuries and death. In this respect BIU College of Pharmacy conducted the essay writing competition on Road Safety. In this **17 participant** were there. Winners of Essay writing competition.

1st Prize – Shehrish Khan -B.Sc. Optometry -2nd Year

2nd Prize – Natasha Barthwal -BPT 1st Year

3rd Prize – Sheetal-D.Pharm 1st Year

Glimpses of Media Coverage





निबंध व भाषण में शिरीष और रितिका रहे अव्वल

कार्यालय संवाददाता, बरेली

कार्यक्रम

- **बरेली इंटरनेशनल यूनिवर्सिटी के कॉलेज ऑफ पैरामेडिकल साइंस और कॉलेज ऑफ फार्मेसी की ओर से हुई प्रतियोगिताएं**

अमृत विचार : बरेली इंटरनेशनल यूनिवर्सिटी के कॉलेज ऑफ पैरामेडिकल साइंस और कालेज ऑफ फार्मेसी के संयुक्त तत्वाधान में सड़क सुरक्षा माह मनाए जाने के संबंध में शनिवार को निबंध एवं भाषण प्रतियोगिता का आयोजन किया गया, जिसमें विभिन्न छात्र-छात्राओं ने भाग लिया। इसकी शुरुआत कॉलेज के प्राचार्य डा. पुष्पेंद्र कन्नौजिया ने की।

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PRINCIPAL
BIU COLLEGE OF PHARMACY
BAREILLY

3. Event Name:- Guest Lecture on Road Safety

Topic:- Road Safety and Awareness

Date:- 16/01/2023

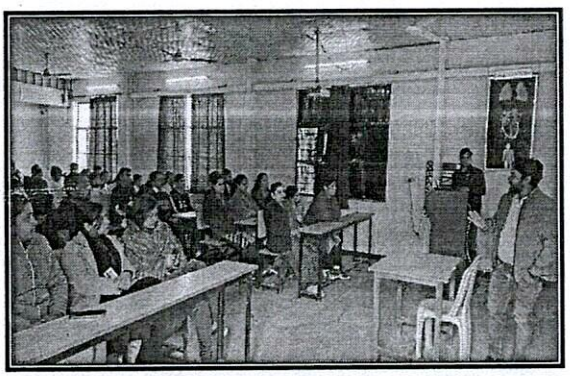
Venue:- Rohilkhand College Nursing, Bareilly International University, Bareilly

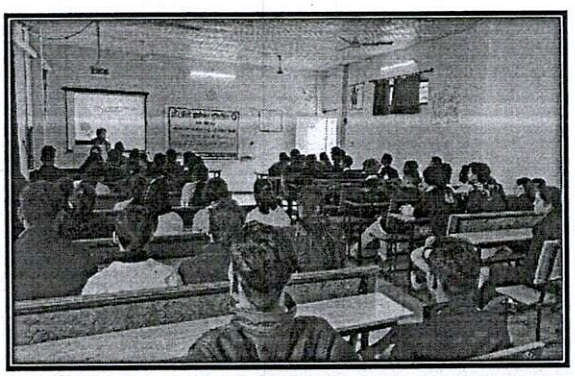
Faculty Incharge:- Mr. Velladurai Narayan

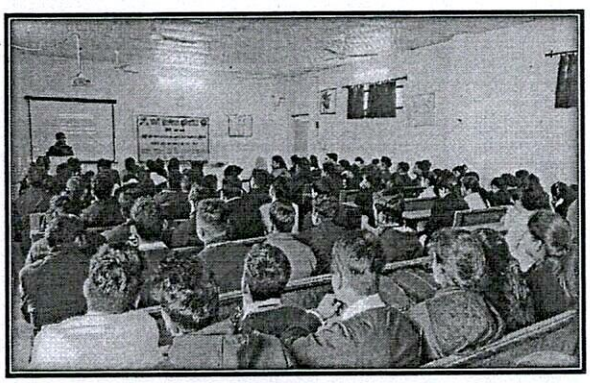
As the part of Road Safety Awareness program, Dr. Pushpendra Kannojia, Principal, BIU College of Pharmacy, Bareilly International University has invited the Mr. Ram Mohan Singh, SP Traffic, Bareilly. SP Traffic explained about various symbols used for road safety and also explained all the rules and regulation to be followed while driving. Also told about the fines that are introduces for the safety of people by State Government.

Mr. Amit Kumar Gangwar, Assistant Professor, Mr. Anurag Bharti, Lecturer BIU College of Pharmacy and Mr. Md. Alim, Faculty of Paramedical Sciences delivered a valuable lecture on the topic "Road Safety" and also highlighted the various causes of road accident and the ways of minimizing it.

Glimpses of Media Coverage









PRINCIPAL
BIU COLLEGE OF PHARMACY
BAREILLY

4. Event Name:- Road Safety Video

Topic:- Playing Road Safety Video

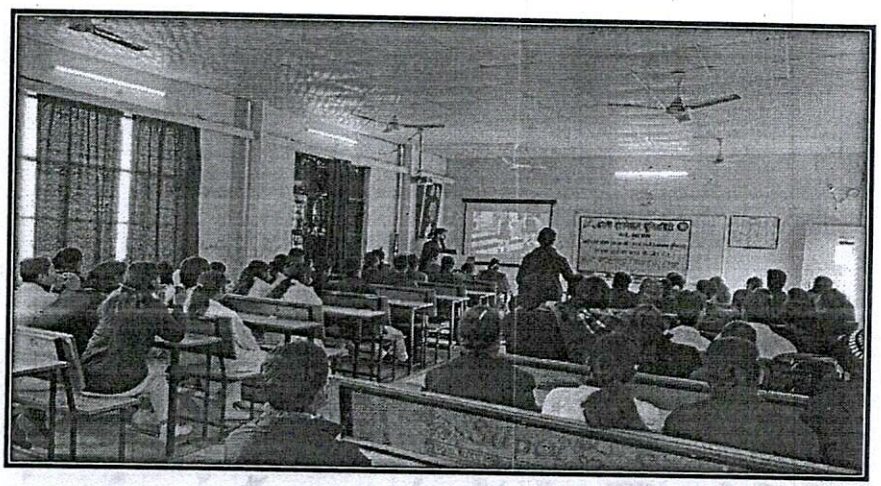
Venue:- BIU College of Pharmacy

Faculty Incharge:- Mr. Prashant Kumar Sharma

Mr. Sunny Patel

Under Road Safety awareness program, a message video on road safety was played in the class, which gave a valuable guidance to all the student & faculty members. All students observed this very carefully. The purpose of this video was that how can we reduce road accident and how to Safe driving on road.

Glimpses of Media Coverage





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BIU COLLEGE OF PHARMACY
BAREILLY

5. Event Name:- Rangoli Competition

Topic:- Related to Road Safety

Date:- 17/01/2023

Venue:- Instrumentation Lab

Faculty Incharge:- Mrs. Charu Saxena

Mr. Dharamveer Singh

Mrs. Jennifer Bedi

In the Road Safety Awareness Month, to spread awareness about the importance of Road Safety and their measures. In this respect BIU College of Pharmacy organized a Rangoli competition to aware the student for road safety our faculty members gave ideas and inspired the students to work in group and foster team spirit. Each Rangoli was unique in its own way and the judges were appreciate all the participants.

1st Prize – Sheetal & Abhishek-D.Pharm 1st Year

2nd Prize – Kiran, Nitin & Pankaj- B.Pharm 3rd Year

3rd Prize – Shivani & Muskan-D.Pharm 1st Year

Glimpses of Media Coverage





आयोजन | विभिन्न पाठ्यक्रम के छात्र-छात्राओं ने लिया बढ़-चढ़कर हिस्सा

यातायात नियमों के प्रति किया जागरूक

कार्यालय संवाददाता, बरेली

अमृत विचार: बरेली इंटरनेशनल यूनिवर्सिटी के बीआईयू कॉलेज ऑफ फार्मेसी एवं फैकल्टी ऑफ पैरामेडिकल साइंस में मंगलवार को यातायात सुरक्षा एवं नियम पर रंगोली प्रतियोगिता का आयोजन किया गया,. जिसमें विभिन्न पाठ्यक्रम के छात्र-छात्राओं ने बढ़-चढ़कर हिस्सा लिया। प्रतियोगिता का आरंभ कॉलेज के प्राचार्य डा. पुष्पेंद्र कल्नौनिया ने छात्रों के उज्ज्वल भविष्य की कामनाओं के साथ किया। रंगोली में डी फार्मा प्रथम वर्ष के शीतल और अभिषेक को प्रथम, बी फार्मा तृतीय वर्ष के किरन, नितिन और पंकज को द्वितीय, डी फार्मा प्रथम वर्ष के शिवानी और मुस्कान को तृतीय स्थान मिला। प्रतियोगिता का संचालन फार्मेसी विभाग के असिस्टेंट प्रोफेसर धर्मवीर सिंह, चारु सक्सेना और जेनिफर बेदी व पैरामेडिकल साइंस के असिस्टेंट प्रोफेसर मोहम्मद अलीम, गुलफ्सा सैफी और विशाल गंगवार ने किया। इस मौके पर सभी शिक्षक एवं अन्य स्टॉफ मौजूद रहा।



कार्यक्रम में मौजूद छात्र-छात्राएं और अतिथिगण। • अमृत विचार

• बरेली इंटरनेशनल यूनिवर्सिटी के बीआईयू कॉलेज ऑफ फार्मेसी एवं फैकल्टी ऑफ पैरामेडिकल साइंस में हुई रंगोली प्रतियोगिता

PRINCIPAL
BIU COLLEGE OF PHARMACY
BAREILLY

6. Event Name:- Human Chain and Road Safety Oath

Date:- 23/01/2023

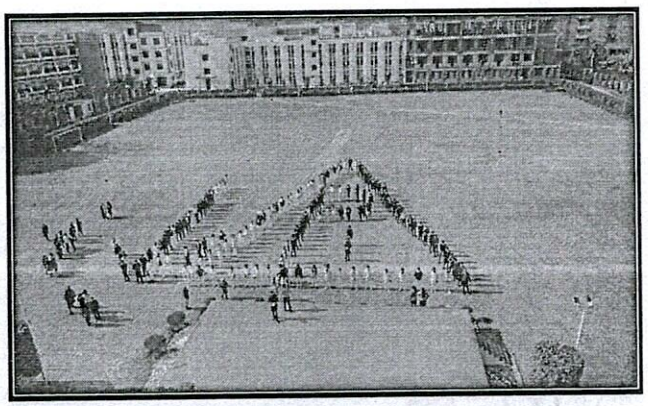
Venue:- Main Ground, Bareilly International University, Bareilly (U.P.)

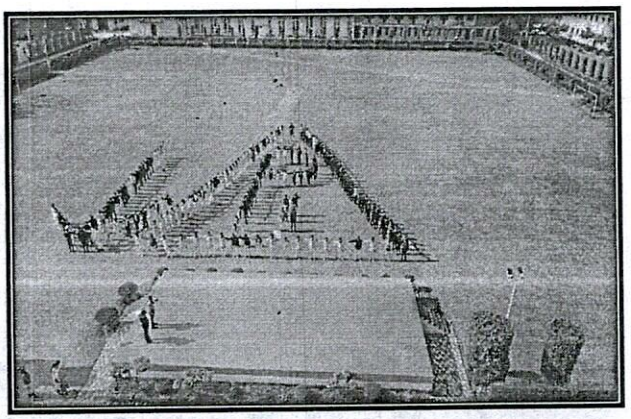
Faculty Incharge:- Mr. Amit Kumar Gangwar

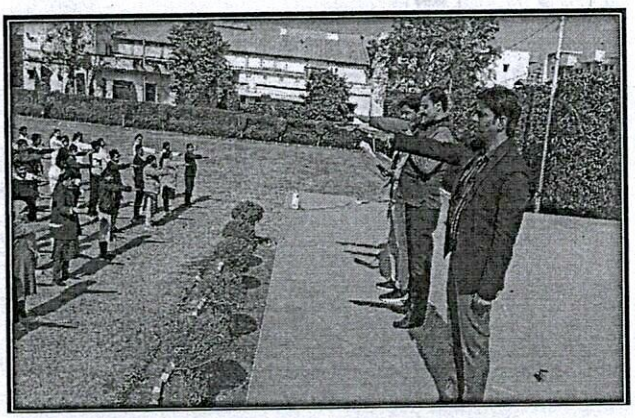
Mr. Prashant Kumar Sharma

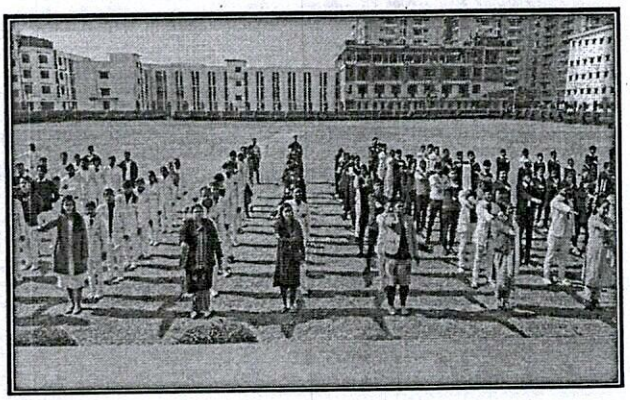
The Birth anniversary of Netaji Subhash Chandra Bose was celebrated on Monday, under this occasion the student of BIU College of Pharmacy created awareness about road safety by forming a human chain on road safety. Finally all the students and faculty members gathered in group. Mr. Anurag Bharti, Lecturer, BIU College of Pharmacy pledge the road safety oath.

Glimpses of Media Coverage











शिक्षक और छात्रों ने ली सड़क सुरक्षा की शपथ, लोगों को किया जागरूक

बरेली, अमृत विचार : बरेली इंटरनेशनल यूनिवर्सिटी के बीआईयू कॉलेज ऑफ फार्मेसी में सड़क सुरक्षा माह के अंतर्गत सोमवार को नेताजी सुभाष चन्द्र बोस की जयंती पर कॉलेज के लेक्चरर अनुराग भारती ने शिक्षकों एवं छात्र छात्राओं को सड़क सुरक्षा की शपथ दिलाई। बीआईयू कॉलेज ऑफ फार्मेसी एवं पैरामेडिकल ऑफ साइंसेज के विद्यार्थियों ने संयुक्त रूप से सड़क सुरक्षा पर मानव श्रृंखला बनाकर सड़क सुरक्षा के प्रति जागरूक किया। कार्यक्रम समन्वयक असिस्टेंट प्रो. अमित कुमार गंगवार, प्रशांत कुमार शर्मा व अजय उपाध्याय मौजूद रहे। वहीं, बीआईयू कॉलेज ऑफ फार्मेसी के प्राचार्य डा. पुष्पेंद्र कन्नौजिया एवं बरेली इंटरनेशनल यूनिवर्सिटी की कुलपति डा. लता अग्रवाल ने सभी को बधाई दी।

PRINCIPAL
BIU COLLEGE OF PHARMACY
BAREILLY

7. Event Name:- Essay and Slogan Competition

Date:- 25/01/2023

Venue:- BIU College of Pharmacy

Faculty Incharge:- Ms. Babita Sharma

Mr. Satyendra Kumar

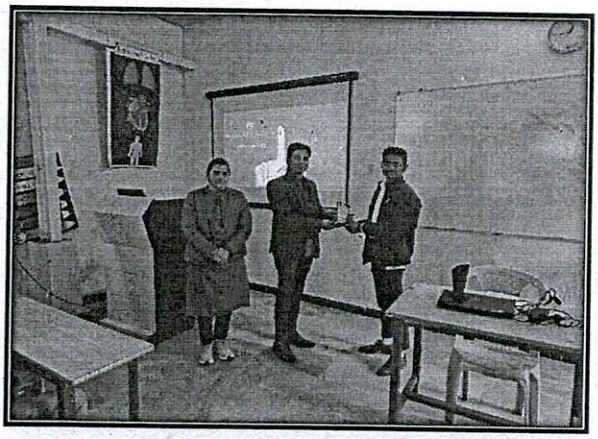
The National Voter's day has been celebrated on 25th January every year since 2011, all across the country to mark the foundation day of election commission of India, i.e 25th January 1950. The main purpose of the National Voter's day celebration is to encourage, facilitate and maximize enrolment, especially for the new Voter's. Under this occasion BIU College of Pharmacy and NSS of Bareilly International University, Bareilly conducted series of competition on 25/01/2023.

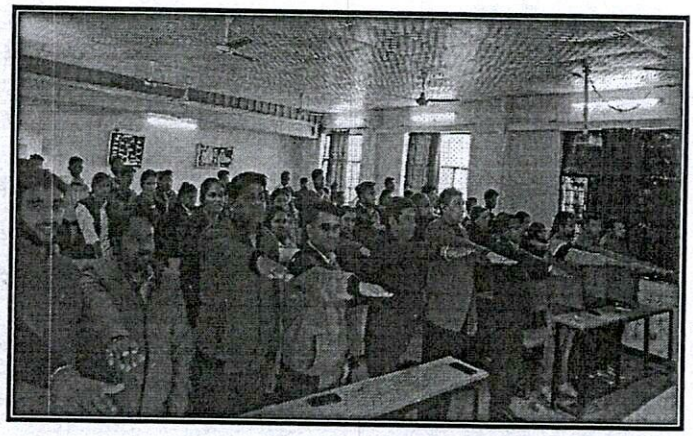
- Winner of Essay Writing competition on National Voter's day
  Pradeep Kumar – D.Pharm 1st Year

- Winner of Slogan Competition on National Voter's day
  Omendra Kumar - D.Pharm 1st Year

Also the pledge for National Voter's day is taken by the faculties, staff and students on 25th January 2023. Under the guidance of Principal, BIU College Pharmacy, Dr. Pushpendra Kannojia.

Glimpses of Media Coverage









राष्ट्रीय मतदाता दिवस पर ली शपथ

बीआईयू कॉलेज ऑफ फार्मेसी एवं फैकल्टी ऑफ पैरामेडिकल साइंसेस में शपथ ग्रहण करते छात्र-छात्राएं।

कार्यालय संवाददाता, बरेली

अमृत विचार : बरेली इंटरनेशनल यूनिवर्सिटी के बीआईयू कॉलेज ऑफ फार्मेसी एवं फैकल्टी ऑफ पैरामेडिकल साइंसेस में बुधवार को 13 वें राष्ट्रीय मतदाता दिवस के अंतर्गत शपथ ग्रहण समारोह एवं मैं भारत हूं गीत का आरंभ किया गया। निबंध लेखन, गीत , स्लोगन राइटिंग प्रतियोगिता ऑनलाइन हुई, जिसमें विभिन्न पाठ्यक्रम के छात्र - छात्राओं ने बढ़ -चढ़ कर हिस्सा लिया। कार्यक्रम की शुरुआत कॉलेज प्राचार्य डा. पुष्पेन्द्र कन्नौजिया ने की। निबंध में डी-फार्म प्रथम वर्ष के ओमेंद्र व स्लोगन में प्रदीप को प्रथम स्थान मिला। संचालन फार्मेसी विभाग की असिस्टेंट प्रो बबीता शर्मा ने किया। बीआईयू कॉलेज ऑफ फार्मेसी व फैकल्टी ऑफ पैरामेडिकल साइंसेस के सभी शिक्षक मौजूद रहे।

PRINCIPAL
BIU COLLEGE OF PHARMACY
BAREILLY

8. Event Name:- Providing First Aid Kit

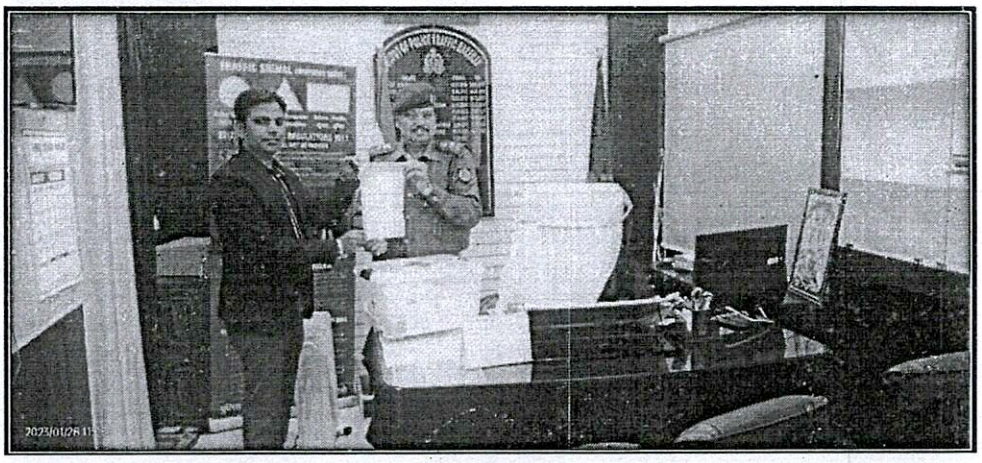
Date:- 28/01/2023

Venue:- S.P. City Office

Under Road Safety Month, BIU College of Pharmacy provided First aid kit to Shri Ram Mohan Singh, SP Traffic Bareilly. Due to which the needy and accident victims can be treated.

Glimpses of Media Coverage





PRINCIPAL
BIU COLLEGE OF PHARMACY
BAREILLY

9. **Event Name:- Prize distribution & Closing Ceremony of Road Safety Awareness Program**

Date:- 04/02/2023

Venue:- BIU College of Pharmacy, Bareilly International University, Bareilly (U.P.)

The prize distribution & closing ceremony on Road Safety awareness program was ended on 04/02/2023. The program was managed under the guidance of Principal BIU College of Pharmacy Dr. Pushpendra Kannojia. The program was enlightened by the presence of all the faculties of Pharmacy & Paramedical sciences, Mr. Shailendra Kumar Verma, Associate Professor, BIU College of Pharmacy delivered a lecture on Road Safety and also delivered a brief report of all events and program which was conducted on Road Safety awareness month held on 05/01/2023 to 04/02/2023. Hon'ble Vice Chancellor, Bareilly International University, Dr. Lata Agarwal congratulate all the staff members of BIU College of Pharmacy for this program. Trophy and certificates were distributed on this occasion to all the winners and participants.

Glimpses of Closing Ceremony













PRINCIPAL
BIU COLLEGE OF PHARMACY
BAREILLY

Glimpses of Closing Ceremony







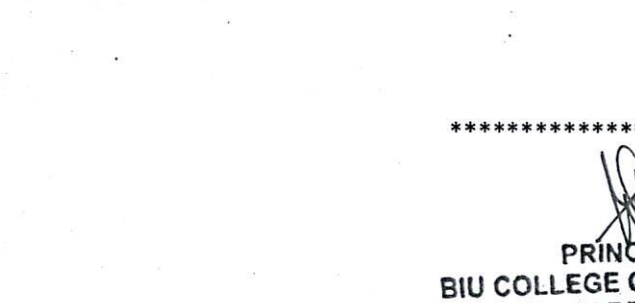


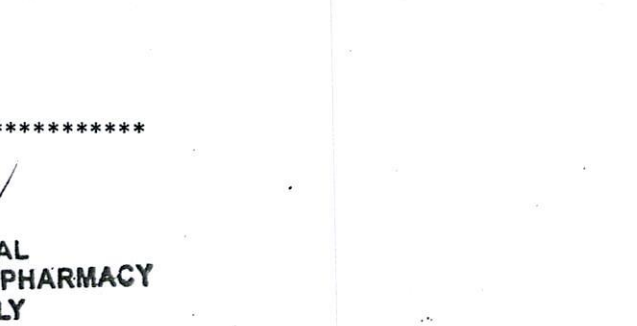












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PRINCIPAL
BIU COLLEGE OF PHARMACY
BAREILLY

Bareilly International University, Bareilly

Activity Report Format

Academic Session:

(Submitted to IQAC by Department/ Institute)

Name of Department / Institute	Bareilly International University, Bareilly BIU College of Pharmacy		
Name of Dean/ Principal	Dr. Pushpendra Kannojia		
Coordinator/ Convener of the activity	Assit. Prof. Mr. Ashish Kumar Singh Mr. Anurag Bharti, Mrs. Anita Yadav		
Email ID and contact number of Convener of the activity	Official email id:	ashish.singh7783@gmail.com	
	Contact No.:	8859553725	
Name of the Activity/ Program/ Event/ Function	Pharmaceutical Industrial Visit		
Date(s) and day of the activity	16/12/2023 (Saturday)		
Venue of the activity	Agron Remedies Pvt. Ltd. (Kashipur)		
Relevant documents (please√ the relevant)	Circular	Yes / No ✓	
	Brochure	Yes / No ✓	
	No of participants along with List	30	Yes / No ✓
	Attendance sheet(s)	Yes / No ✓	
	Report of the event (along with *Geotagged* photographs) (1-4, depicting the event)	Yes / No ✓	
	Certificate(s)* (5 Sample photocopies)	Yes / No ✓	
	Other document (if any) Attach the document		
Any other relevant information	Concern form Students - Yes		

* Provide the "Signed" soft and hard copy of all requisite documents

* If Certificates/ any other document not provided/ not applicable: kindly mention.

(Principal/Dean) 22/12/23

(Coordinator/ Convener of the Activity)

Anita Yadav 22/12/2023

BAREILLY INTERNATIONAL UNIVERSITY

BIU COLLEGE OF PHARMACY

REPORT ON INDUSTRIAL VISIT

Date of Visit: - 16th December, 2023

Place of Visit: - Agron Remedies Pvt. Ltd.

Coordinators Faculty Members: -

- Mr. Ashish Kumar Singh **(Assistant Professor)**
- Mr. Anurag Bharti **(Lecturer)**
- Mrs. Anita Yadav **(Lecturer)**

Participating Students: - D. Pharm 1st Year

Total Students Participated: - 30

OBJECTIVES: -

- To build up knowledge
- To explore student to industrial environment.
- To build industry institute relation and interaction.
- To understand health, safety and environmental aspects in industry.
- To interact with peoples, build contacts for future career advancement.

REPORT: -

The visit was organized with the prior permission and guidance of **Hon. Principal Dr. Pushpendra Kannojia** of BIU College of Pharmacy. On **16th December, 2023** (Saturday) Students of BIU College of Pharmacy **(D. Pharm 1st Year)** got good opportunity to visit one of the top pharmaceutical industry **AGRON REMEDIES PVT.LTD.** This plant is located at Kashipur. Total 30 students along with 3 faculty members and 1 staff have joined this industrial visit. This plant mainly deals with manufacturing of Pharmaceutical Preparations. The students visited different sections like dispensing, filling, packaging, storage, Tablet, Capsules, Syrup and Injectable. Students were allowed to observe from corridor about the manufacturing equipment's and packaging of various products. The various large-scale pharmaceutical manufacturing equipment and its applications were also keenly observed by our students. Student's our guided by **Mr. Narendra Panchal (Plant Head)** and **Mr. Jitendra Mandola (Quality Control Incharge),** Agron Remedies Kashipur. He correlated the study and actual working at industry and gap between the industry and institute. The students were accompanied by faculty **Asst. Prof. Mr. Ashish Kumar Singh, Mr. Anurag Bharti, and Mrs. Anita Yadav,** who guided and explained them about processing of pharmaceutical products at various stages of visit to Pharma plant. They students were very happy and felt enriched after visiting a Parenteral manufacturing plant.

Anita Yadav 22/12/23

OUR MANUFACTURING SECTIONS

- Fully automatic with latest technology injectable plant for Liquid Injectables and vials and a separate plant for CAPHALOSPORINS Dry Powder Injectables
- Fully automatic with latest technology Ointment manufacturing plant for Aluminum and Lamitubes, Lotion, Shampoo etc
- Eye drops manufacturing section
- Fully equipped with latest technology tablet manufacturing plant
- Fully automatic Liquid manufacturing plant for syrups and suspensions
- Fully equipped Capsule section for hard gelatin capsules
- Dry syrup manufacturing section
- Beta lactam Section for manufacturing of Tablets, Capsules and Dry Syrups
- We have recently added a big plant for Ayurvedic /Herbal products. It has all sections to manufacture Ayurvedic /Proprietary /Classical-Syrups, Capsules, Tablets, Skin preparations powders, Asavas, Bhasma, Ras, Churna, Soaps etc.
- Section for Nutraceutical Products
- Soft Gelatin Capsules manufacturing plant with latest technology.

OUR MARKETING DIVISIONS

- Agron Medica (PCD marketing)
- Agrogem
- Agrovision (PCD marketing)
- Agron veterinary division
- Agron Ayurveda
- Ayurmangal- OTC Division

OUR 1200+ PRODUCTS RANGE INCLUDES

- Antibiotics/antibacterial/ anti amoebics
- NSAID'S/ Anti-Inflammatory/ Analgesics
- Gastro-enterological product
- Pediatric products
- Gynecological product
- Orthopedic/ surgeon products
- Very wide injectables range
- Cardiovascular Drugs
- Neuro- Psychotropic Drugs
- Eye/Ear and Nasal drops
- Dermatological product
- Antidiabetic Drugs
- Antiulcer Drugs
- Nutraceuticals Products
- Anthelmintic
- Lipid Lowering Agent
- Dental Products
- Antiallergic Drugs
- Antifungal Drugs
- Antiviral Drugs
- Antimalarial

BIU COLLEGE OF PHARMACY

PHOTOGRAPH INDUSTRIAL VISIT





Bareilly International University, Bareilly

Activity Report Format

Academic Session: 2023-24

(Submitted to IQAC by Department/ Institute)

Name of Department / Institute	BIU College of Pharmacy.		
Name of Dean/ Principal	Dr. Pushpendra Kannojia.		
Coordinator/ Convener of the activity	Mr. Uday Pratap & Ms Babita Sharma		
Email ID and contact number of Convener of the activity	Official email id:	babitasharma379@gmail.com	
	Contact No.:	7417897, 8950322282	
Name of the Activity/ Program/ Event/ Function	Awareness Program of Commodity Derivatives.		
Date(s) and day of the activity	November, 20, 2023.		
Venue of the activity	LT- 09.		
Relevant documents (please√ the relevant)	Circular	Yes / No	
	Brochure	Yes / ~~No~~	
	No of participants along with List	25	Yes / No
	Attendance sheet(s)	~~Yes~~ / No	
	Report of the event (along with ***Geotagged*** photographs) (1-4, depicting the event)	~~Yes~~ / No	
	Certificate(s)* (5 Sample photocopies)	Yes / ~~No~~	
	Other document (if any) Attach the document		
Any other relevant information			

* Provide the "Signed" soft and hard copy of all requisite documents

* If Certificates/ any other document not provided/ not applicable: kindly mention.

20/11/23

(Principal/Dean)

(Coordinator/ Convener of the Activity)

Event Report

Lecture on Commodity Derivatives

Date: 20th November 2023
Venue: Bareilly International University (BIU)
Organized By: BIU College of Pharmacy,

Objective of the Event:

The primary goal of the event was to raise awareness about "Commodity Derivatives" among students and faculty members, connecting them with practical financial and trade strategies.

Program Highlights:

1. **Inauguration:**
   The event began with an introduction by NAAC Coordinator Prof. Sanjeev Maheshwari.
   Other dignitaries present were:
   - Prof. Pushpendra Kanaujia (Principal, College of Pharmacy)
   - Prof. Priyanka Masih (Principal, College of Nursing)
   - Dr. Anitha Pou (Vice-Principal, College of Nursing)
   - Dr. Avnish Singh Chauhan (Principal, College of Management and Humanities & Journalism)
2. **Keynote Address:**
   - **Speaker:** Prof. Uttam Kumar, NCDEX (National Commodity and Derivative Exchange), Lucknow
   - **Topic:** Commodity Derivatives
   Prof. Kumar highlighted NCDEX's ongoing nationwide campaign to educate academia on commodity derivatives and their role in advancing financial and trade practices.
3. **Interactive Session:**
   - Attendees explored the concept of commodities as assets and learned about the global commodity derivatives market.
   - The session aimed to bridge the gap between theoretical knowledge and practical applications in finance and trade.
4. **Guest Recognition:**
   Dr. Avnish Singh Chauhan honored Prof. Uttam Kumar with a bouquet as a token of appreciation.

Acknowledgments:

The Vice-Chancellor of BIU, Dr. Lata Agarwal, and Registrar, Dr. S.K. Thakur, commended the organizers and participants for the successful execution of the event. Special recognition was given to:

- Organizers: Dr. Sunil Kumar, Ajay Upadhyay, Atul Babu, Charu Sharma, Dr. Uday Bhaskar
- Student Volunteers: Babita, Monica, Sakheeha, Muskan, Dharmveer, Sukhved, Sunny Patel, Pranjal Gangwar, Mohini Gupta, Vineet Rathore

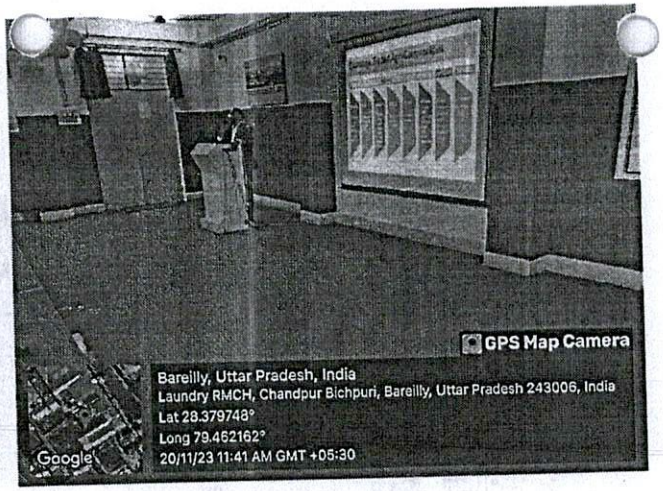
Outcome:

The event effectively introduced students and faculty members to the importance of commodity derivatives, fostering financial literacy and innovation in trade practices.

Participants:
The event saw enthusiastic participation from students, faculty, and prominent members of the BIU community, including Praveen Kumar and others.

Conclusion:
The lecture successfully achieved its aim of connecting the academic community with progressive financial concepts, marking a significant milestone in BIU's initiatives for educational advancement.


GPS Map Camera
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Long 79.462183°
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Google


GPS Map Camera
Bareilly, Uttar Pradesh, India
Laundry RMCH, Chandpur Bichpuri, Bareilly, Uttar Pradesh 243006, India
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Google


GPS Map Camera
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Long 79.461613°
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Akums Drugs & Pharmaceuticals Ltd.

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AKUMS/VT/2022/1683

Date : 31.10.2022

To Whomsoever It May Concern

This is to certify that **Mr. Aman Nath S/O Mr. Mr. Mahesh Singh,** student of B.Pharma from Bareilly International University , Uttar Pradesh has Completed his training in Production Department on the title **"PRODUCTION PROCESS"** in our Organization from **17.08.2022 to 04.10.2022**.

During the training period, his curiosity of learning, performance and behavior was good.

We wish him all the success in his future endeavors.

For Akums Drugs & Pharmaceuticals Ltd.

Authorized Signatory

Bareilly International University, Bareilly

BIU College of Pharmacy

B.Pharm Batch (2020-24)

Industrial Traning Record

S. No.	Student's Name	Industry Name	Location
1	Abhishek Gangwar	BLBK Pharmaceutical pvt ltd	Dehradun, Uttarakhand
2	Abhishek Singh	BLBK Pharmaceutical pvt ltd	Dehradun, Uttarakhand
3	Adesh Kumar	BLBK Pharmaceutical pvt ltd	Dehradun, Uttarakhand
4	Aditya Kumar Sharma	BLBK Pharmaceutical pvt ltd	Dehradun, Uttarakhand
5	Aman Jaiswal	METROCRAFT	Baddi Himachal Pradesh
6	Ankit Saxena	Pil Psychotropics India Limited	Haridwar UK
7	Ankul Singh	Pil Psychotropics India Limited	Haridwar UK
8	Ankur Gangwar	Pil Psychotropics India Limited	Haridwar UK
9	Anurag	ANG Lifescience India ltd unit 4	Baddi Solan Himachal Pradesh
10	Arpit Patel	METROCRAFT	Baddi Himachal Pradesh
11	Arun Gangwar	ANG Lifescience India ltd unit 4	Baddi Solan Himachal Pradesh
12	Ashish Yadav	ANG Lifescience India ltd unit 4	Baddi Solan Himachal Pradesh
13	Atal Ojha	BLBK Pharmaceutical pvt ltd	Dehradun, Uttarakhand
14	Atul Kumar	BLBK Pharmaceutical pvt ltd	Dehradun, Uttarakhand
15	Avinash Gangwar	APCO PHARMA LTD.	Haridwar UK
16	Bhoopendra Singh	ANG Lifescience India ltd unit 4	Baddi Solan Himachal Pradesh
17	Bijpal	ANG Lifescience India ltd unit 4	Baddi Solan Himachal Pradesh
18	Chirag Patel	APCO PHARMA LTD.	Haridwar UK
19	Deendayal Rathaur	ANG Lifescience India ltd unit 4	Baddi Solan Himachal Pradesh
20	Deepak Kumar Saini	APCO PHARMA LTD.	Haridwar UK
21	Deepali Kashyap	APCO PHARMA LTD.	Haridwar UK
22	Deepanshu Shukla	APCO PHARMA LTD.	Haridwar UK
23	Dharam Pal	BLBK Pharmaceutical pvt ltd	Dehradun, Uttarakhand
24	Dheeraj Kumar	METROCRAFT	Baddi Himachal Pradesh
25	Dilshad Husain	APCO PHARMA LTD.	Haridwar UK
26	Dinesh Kumar	APCO PHARMA LTD.	Haridwar UK
27	Divyansh Singh	Pil Psychotropics India Limited	Haridwar UK
28	Durvesh Kumar	APCO PHARMA LTD.	Haridwar UK
29	Fajal Khan	Saintlife Pharmaceutical Ltd	Dehradun, Uttarakhand
30	Fiza Bee	APCO PHARMA LTD.	Haridwar UK
31	Gaurav Shakya	APCO PHARMA LTD.	Haridwar UK
32	Gaurav Yadav	Technica labs & pharma pvt ldt	Dehradun, Uttarakhand
33	Gunjeet Kumar Singh	ANG Lifescience India ltd unit 4	Baddi Solan Himachal Pradesh
34	Himani	APCO PHARMA LTD.	Haridwar UK
35	Himanshu Gangwar	APCO PHARMA LTD.	Haridwar UK
36	Kamal Kumar	APCO PHARMA LTD.	Haridwar UK
37	Kapil Kumar	APCO PHARMA LTD.	Haridwar UK
38	Kaushik Shrivastav	APCO PHARMA LTD.	Haridwar UK
39	Keshav	ANG Lifescience India ltd unit 4	Baddi Solan Himachal Pradesh
40	Keshav Yadav	Shivam Enterprises	Sirmour HP

Bareilly International University, Bareilly

BIU College of Pharmacy

B.Pharm Batch (2020-24)

Industrial Traning Record

S. No.	Student's Name	Industry Name	Location
41	Kiran Maurya	East African overseas	Dehradun selaqui UK
42	Manish Chaudhary	APCO PHARMA LTD.	Haridwar UK
43	Mohd Rehan	Agron remedies	sarverkheda (kashipur)
44	Mohd Tahir Idrishi	AGRON REMEDIES PVT LTD	kashipur Uk
45	Mukesh Chaudhary	Agron remedies	sarverkheda (kashipur)
46	Narendra Singh	ANG Lifescience India ltd unit 4	Baddi Solan Himachal Pradesh
47	Nitin Sharma	Tad K Pharma	Meerut UP
48	Pankaj Rathore	Tad K Pharma	Meerut UP
49	Pankaj Yadav	Tad K Pharma	Meerut UP
50	Parakh Kaushik	METROCRAFT	Baddi Himachal Pradesh
51	Piyush Verma	APCO PHARMA LTD.	Haridwar UK
52	Pragati Srivastava	East African overseas	Dehradun selaqui UK
53	Prahlad	APCO PHARMA LTD.	Haridwar UK
54	Praveen Kumar	APCO PHARMA LTD.	Haridwar UK
55	Rahul Shakya	Janya Biocare Pvt Ltd	Roorkee UK
56	Ravindra Gangwar	Eurolife Healthcare pvt ltd	Koparkairane, Navi Mumbai
57	Rustam	Tad K Pharma	Meerut UP
58	Sachin Patel	APCO PHARMA LTD.	Haridwar UK
59	Santosh Gangwar	Saintlife Pharmaceutical Ltd	Dehradun, Uttarakhand
60	Satish Yadav	Saintlife Pharmaceutical Ltd	Dehradun, Uttarakhand
61	Satya Veer Singh	METROCRAFT	Baddi Himachal Pradesh
62	Satya Veer	ANG Lifescience India ltd unit 4	Baddi Solan Himachal Pradesh
63	Saumya Tiwari	METROCRAFT	Baddi Himachal Pradesh
64	Saurabh Kumar	Saintlife Pharmaceutical Ltd	Dehradun, Uttarakhand
65	Sheetal Gangwar	APCO PHARMA LTD.	Haridwar UK
66	Shikhar Sharma	Agron Remedies Pvt Ltd	kashipur Uk
67	Shivam Kumar	Purobien lifescience	Baddi Solan Himachal Pradesh
68	Shivam Pal	East African overseas	Dehradun selaqui UK
69	Srashti Thakur	Agron Remedies Pvt Ltd	kashipur Uk
70	Subham Shukla	APCO PHARMA LTD.	Haridwar UK
71	Sumit Kumar Rathore	Agron Remedies Pvt Ltd	kashipur Uk
72	Ujjwal	East African overseas	Dehradun selaqui UK
73	Uma Shanker	APCO PHARMA LTD.	Haridwar UK
74	Vikas Solanki	Purobien lifescience	Baddi Himachal Pradesh
75	Vishal Gutpa	Purobien lifescience	Baddi Himachal Pradesh

Bareilly International University, Bareilly

BIU College of Pharmacy

B.Pharm Batch (2021-25)

Industrial Traning Record

S. No.	Student's Name	Industry Name	Location
1	Abhay Pratap Singh	MAXTAR BIO-GENICS	Baddi (Solan) Himachal Pradesh
2	Abhay Verma	MAXTAR BIO-GENICS	Baddi (Solan) Himachal Pradesh
3	Abhishek	ASPEN BIOPHARMA LABS PVT LTD	HYDERABAD,T.S, INDIA
4	Abhishek Kumar Mandal	Salud Care (India)Pvt. ltd	Roorkee, (Utrakhand)
5	Abhishek Sharma	MAXTAR BIO-GENICS	Baddi (Solan) Himachal Pradesh
6	Abhishek Sharma	ASPEN BIOPHARMA LABS PVT LTD	HYDERABAD,T.S,. INDIA
7	Adesh Kumar	ASPEN BIOPHARMA LABS PVT LTD	HYDERABAD,T.S, INDIA
8	Aditya Gangwar	ASPEN BIOPHARMA LABS PVT LTD	HYDERABAD,T.S, INDIA
9	Ajeet Sagar	BRD MEDILABS Unit. IInd	Baddi, Himachal Pradesh
10	Akash Kumar	ASPEN BIOPHARMA LABS PVT LTD	HYDERABAD,T.S, INDIA
11	Alok Verma	ASPEN BIOPHARMA LABS PVT LTD	HYDERABAD,T.S, INDIA
12	Aman	Salud Care (India)Pvt.Ltd.	Roorkee,(U.K.)
13	Amit Kumar	Salud Care (India)Pvt.Ltd.	Roorkee,(U.K.)
14	Anil Kumar	APCO PHARMA LTD	Haridwar, (U.K.)
15	Ankit Babu	APCO PHARMA LTD	Haridwar, (U.K.)
16	Ankush Kumar	METROCRAFT	Baddi Himachal Pradesh
17	Anshika	Salud Care (India)Pvt.Ltd.	Roorkee,(U.K.)
18	Anupam Rajput	APCO PHARMA LTD	Haridwar, (U.K.)
19	Archit Singh	APCO PHARMA LTD	Haridwar, (U.K.)
20	Arun Kumar	Salud Care (India) Pvt Ltd	Roorkee, (Utrakhand)
21	Arun Rathour	APCO PHARMA LTD	Haridwar, (U.K.)
22	Arvind Kumar	Meek Pharma Pvt. Ltd	Rudrpur, Udham Singh Nagar U.K
23	Azeem Ahmad	DNV OVERSEAS IMPEX Pvt. Ltd.	Haridwar, (U.K.)
24	Bipin Kushwaha	METROCRAFT	Baddi,(Solon) Himachal Pradesh
25	Deepak Mishra	APCO PHARMA LTD	Haridwar, (U.K.)
26	Devesh Kumar	METROCRAFT	Baddi,(Solon) Himachal Pradesh
27	Devesh Kumar	Meek Pharma Pvt. Ltd	Rudrpur, Udham Singh Nagar (U.K.)
28	Dilshad Ali	METROCRAFT	Baddi,(Solon) Himachal Pradesh
29	Divya Mourya	Lifecompharmaceuticals(I)pvt.Ltd	Bhagwanpur Haridwar,(U.K.)
30	Fiza Khan	APCO PHARMA LTD	Haridwar, (U.K.)
31	Gagan	APCO PHARMA LTD	Haridwar, (U.K.)
32	Gaurav Kumar	METROCRAFT	Baddi Himachal Pradesh
33	Gaurav Pal	MAXTAR BIO -GENICS	Baddi,(Solan) Himachal pradesh
34	Gulam Ahamad Sabri	PREET REMEDIES	Baddi (Solan) Himachal Pradesh
35	Himankur Tripathi	APCO PHARMA. LTD.	Haridwar, (U.K.)
36	Himanshu Mishra	Salud Care India Pvt. Ltd.	Roorkee, Haridwar (Uttrakhand)
37	Jagmohan Sagar	METROCRAFT	Baddi,(solon)Himachal Pradesh
38	Janu Singh	Khandelwal Laboratories pvt.lmt	Pantnagar (Rudrapur) Utrakhand
39	Jasvinder Singh	APCO PHARMA LTD	Haridwar, (U.K.)
40	Jeesu Gangwar	ACME Generics Pvt. Ltd	Baddi,(solon) Himachal Pradesh
41	Krish Gangwar	APCO PHARMA. LTD.	Haridwar Uttrakhand
42	Kuldeep Pal	APCO PHARMA. LTD.	Haridwar Uttrakhand
43	Mo Arman	PREET REMEDIES	Baddi (Solan) Himachal Pradesh
44	Mo Seevan	APCO PHARMA LTD	Haridwar, (U.K.)
45	Mod Aajam Hussain Ansari	Salud Care India Pvt. Ltd.	Roorkee, Haridwar ((U.K.))

Bareilly International University, Bareilly

BIU College of Pharmacy

B.Pharm Batch (2021-25)

Industrial Traning Record

S. No.	Student's Name	Industry Name	Location
46	Mohd Bilal Ansari	APCO PHARMA LTD	Haridwar, (U.K.)
47	Mohd Naki	Meek Pharma Pvt. Ltd	Rudrpur, Udham Singh Nagar U.K
48	Mohd Rahil	APCO PHARMA LTD	Haridwar, (U.K.)
49	Naimish	Meek Pharma Pvt. Ltd	Rudrpur, (U.K.)
50	Nawaz Ali	Salud Care India Pvt. Ltd.	Roorkee, Haridwar (Uttrakhand)
51	Nitin Chandra	Meek Pharma Pvt. Ltd	Rudrpur, Udham Singh Nagar (U.K.)
52	Nitin Kumar Yadav	Meek Pharma Pvt. Ltd	Rudrpur, Udham Singh Nagar (U.K.)
53	Omendra Pal	Jainsons Healthcare	Pantnagar Rudrapur, (U.K.)
54	Pankaj	APCO PHARMA LTD	Haridwar, (U.K.)
55	Pankaj Bagel	Meek Pharma Pvt. Ltd	Rudrpur, Udham Singh Nagar (U.K.)
56	Pranjal Saxena	Jainsons Healthcare	Pantnagar Rudrapur, (U.K.)
57	Pricne Chauhan	APCO PHARMA LTD	Haridwar, (U.K.)
58	Priyanshu Maurya	METROCRAFT	Baddi,(Solon) Himachal Pradesh
59	Raj Kumar	APCO PHARMA LTD	Haridwar, (U.K.)
60	Ram Pal	Akums Drugs & pharmaceuticals Ltd	Ranipur,Haridwar-249403
61	Ram Varan	Meek Pharma Pvt. Ltd	Rudrpur, Udham Singh Nagar (U.K.)
62	Sachin Kumar	Akums Drugs & Pharmaceuticals Ltd.	Ranipur, Haridwar (U.K.)
63	Sachin Kumar Verma	Agron Remedies PVT.LTD	Kashipur U.S. nagar (U.K.)
64	Saurabh Sharma	APCO PHARMA. LTD.	Haridwar, (U.K.)
65	Shalini Yadav	METROCRAFT	Baddi,(Solon) Himachal Pradesh
66	Shamsul Hasan	DNV OVERSEAS IMPEX Pvt. Ltd.	Haridwar, (U.K.)
67	Shivam Gangwar	ACME Generics Pvt.Ltd	Baddi,(Solon) Himachal Pradesh
68	Shivam Gangwar	METROCRAFT	Baddi,(Solon) Himachal Pradesh
69	Shivam Saxena	ACME Generics Pvt.Ltd	Baddi,(Solon) Himachal Pradesh
70	Shubh Verma	ACME Generics Pvt.Ltd	Baddi,(Solon) Himachal Pradesh
71	Sourav	ACME Generics Pvt.Ltd	Baddi,(Solon) Himachal Pradesh
72	Sudesh Kumar	Troikaa Pharmaceutical Ltd.	Sara Industrial Estate, Selaqul, Dehradun
73	Sukhdev	APCO PHARMA LTD	Haridwar, (U.K.)
74	Sumit Gangwar	ACME Generics PvT.Ltd	Davni,P.O.Gurumajra,solan(H.P)
75	Udit Mishra	MAXTAR BIO-GENICS	Baddi,(solan) Himachal Pradesh
76	Veer Pal	Agron Remedies PVT.LTD	Kashipur u.s. nagar (U.K.)
77	Veeresh Yadav	salude care pvt Ltd	Haridwar
78	Vidhi	Skymap Healthcare Pvt. Ltd.	Faridabad, Haryana
79	Vidhyansh	METROCRAFT	Baddi,(Solon) Himachal Pradesh
80	Vimal Yadav	salud care PvT.Ltd	Haridwar
81	Vinay Kumar Gangwar	Jainsons Healthcare	Pantnagar Rudrapur, Uttrakhand
82	Vishal Gangwar	Jainsons Healthcare	Pantnagar Rudrapur,(U.K.)
83	Vishal Kumar	ACME Generics Pvt.Ltd	Baddi,(Solon) Himachal Pradesh
84	Vishal Sahu	salud care PvT.Ltd	Haridwar

BAREILLY INTERNATIONAL UNIVERSITY
BIU COLLEGE OF PHARMACY

Rohilkhand Medical College & Hospital Campus, Pilibhit by Pass Road, Bareilly.
(U.P) – 243006 INDIA
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1.1.3 Summery sheet of the activities conducted on the cross cutting issues (category wise)

Sl. No.	Cross-Cutting Issue	Name of the Activity/Event	Date	Coordinator	Brief Description	No. of Participants
1.	**Gender**	International Women's Day **Theme:-** Invest in Women: Accelerate Progress	8th March, 2024	Ms. Babita Sharma	BIU College of Pharmacy celebrated the day with fun and meaningful activities like *One Word Five Uses, Pictionary, Dumb Charades,* and *Team Building Games* to promote women's empowerment and raise awareness through active student participation.	61
2.	**Environmental & Sustainability**	World Pharmacist Day	25th September, 2024	Mr. Paras Kumar Prajapati	Pharmacist Day was marked by a dynamic poster presentation highlighting advancements in pharmaceutical sciences, a green initiative through a plantation drive to foster environmental responsibility, and an enriching guest lecture emphasizing the pivotal role of pharmacists in modern healthcare systems.	200
3.	**Human Values**	World Hypertension Day **Theme:-** Measure Your Blood Pressure Accurately	17th May, 2024 to 5th June, 2024	Dr. Sanjeev Kumar	Institution observed World Hypertension Day with faculty-led sessions including BP and BMI demonstrations, poster and dietary presentations, and a BP log activity. The event aimed to raise awareness on prevention and management of hypertension.	80
4.		Lecture on Nutritional Habits for a Healthy Life	29th February, 2024	Ms. Babita Sharma	A lecture on *Nutritional Habits for a Healthy Life* was conducted at BIU College of Pharmacy, highlighting the significance of a balanced diet, adequate hydration, reduced consumption of fast food, and regular physical activity to promote long-term health and prevent lifestyle-related disorders.	40

5.		Expert lecture on Health and Hygiene	01st December 2023	Ms. Babita Sharma	An expert lecture on *Health and Hygiene for Adolescent Girls*, focusing on personal hygiene, menstrual health, balanced nutrition, and self-care practices. The session aimed to educate girls on maintaining hygiene during puberty and developing healthy lifestyle habits. The lecture was well-received and contributed to increased awareness and confidence among the participants.	100
6.		Awareness Program of Commodity Derivatives	20th November, 2023	Mr. Uday Pratap Singh Bhaskar Ms. Babita Sharma	Prof. Uttam Kumar provided an insightful lecture on the National Commodity and Derivatives Exchange (NCDEX). He explained the significance of commodity derivatives in the financial markets, their role in price discovery, and how they help manage risk in commodity trading.	25
7.	**Environmental & Sustainability**	World Pharmacist Day	25th September, 2024	Mr. Paras Kumar Prajapati	Pharmacist Day was marked by a dynamic poster presentation highlighting advancements in pharmaceutical sciences, a green initiative through a plantation drive to foster environmental responsibility, and an enriching guest lecture emphasizing the pivotal role of pharmacists in modern healthcare systems.	200
8.	**Human Values**	Road Safety Awareness Program	05th January, 2023 to 04thFebruary, 2023	Mr. Balbir Singh Ms. Megha Yadav	The institution hosted a month-long Road Safety Awareness Program, which included oral and poster presentations, essay writing,speeches, demonstrations, a nukkad natak, road safety video screenings, and a guest lecture by Mr. Vellaburai, SP Bareilly, focusing on traffic regulations, safe driving, and responsible road behavior.	150
9.	**Professional Ethics**	Gusto-2024 (Fresher's Party)	05th December, 2024	Mr. Prashant Kumar Sharma Ms. Sonali	A Fresher's Party was organized to welcome the new batch of students with warmth and enthusiasm. It included cultural performances, and an interactive introduction session, creating a joyful and friendly atmosphere. Faculty members also addressed the students,	180

.				Mrs. Richa Gangwar	encouraging them to pursue academic and personal excellence. The event concluded with the crowning of Mr. and Ms. Fresher, followed by group photographs and refreshments.	.
10.	**Professional Ethics**	Gusto-2023 (Fresher's Party)	07th November, 2023	Dr. Sanjeev Kumar Ms. Babita Sharma	The event featured cultural performances, fun introductions, and inspiring words from faculty. It ended with the Mr. and Ms. Fresher titles, group photos, and refreshments.	150
11.	**Professional Ethics**	Seminar on Celebration 1st cGMP Day	10th October, 2023	Dr. Sanjeev Kumar Mr. Uday Pratap Singh	On the occasion of the 1st cGMP Day, Dr. Sanjeev Kumar highlighted the evolution and significance of cGMP in the pharmaceutical industry, while Uday Pratap Singh shared valuable insights on its practical implications, focus on quality education and industry-oriented learning in pharmacy.	300
12.	**Professional Ethics**	Farewell Party	30th September, 2023	Mrs. Anita Yadav Mrs. Jennifer Bedi Mr. Anurag Bharti	A farewell event was organized with cultural performances, heartfelt speeches, and faculty addresses. The program concluded with the crowning of Mr. and Ms. Farewell, followed by group photos and refreshments.	60
13.	**Professional Ethics**	World Pharmacist Day	25th September, 2023	Dr. Sanjeev Kumar	Pharmacist Day was marked by a dynamic poster presentation highlighting advancements in pharmaceutical sciences, a green initiative through a plantation drive to foster environmental responsibility, and an enriching guest lecture emphasizing the pivotal role of pharmacists in modern healthcare systems.	55
14.	**Professional Ethics**	World Hypertension Week	17th May 2024	Dr. Sanjeev Kumar	an awareness activity was conducted at BIU College of Pharmacy on 17th May 2024with the theme *"Measure Your Blood Pressure Accurately, Control It, Live Longer."* The event included a short lecture, PowerPoint presentation, BP measurement demonstration, and a free BP check-up. Over 200 participants attended. The activity aimed to promote awareness, early detection, and lifestyle changes to prevent and manage hypertension effectively.	200

15.	**Human Values**	Pledge & Awareness Program on Road Safety	09th December 2022	Mr. Anurag Bharti	A Road Safety Awareness and Pledge Program was conducted to promote responsible behavior among road users. The session included a talk on traffic rules, the importance of helmets and seatbelts, and avoiding mobile phone use while driving. Participants took a pledge to follow road safety norms and encourage others to do the same.	200
	Professional Ethics	World Pharmacist Day	24th September, 2022	Ms. Babita Sharma, Mrs Suman, Ms. Himanshi	World Pharmacist Day was celebrated on 25th September 2022 with the theme *"Pharmacy: United in Action for a Healthier World."* The event highlighted the vital role of pharmacists in healthcare through speeches, poster presentations, and awareness activities	200

Principal

BIU COLLEGE OF PHARMACY PRINCIPAL BAREILLY

BAREILLY INTERNATIONAL UNIVERSITY

BIU COLLEGE OF PHARMACY

Rohilkhand Medical College Campus, Pilibhit by Pass Road, Bareilly. (U.P) – 243006 INDIA

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E-mail: info@rmcbareilly.com, www.rmcbareilly.com

COURSE FILE

(Academic Year-2023-2024)

Faculty In- Charge	:	Ms. Anshika Choudhary
Program	:	BACHELOR OF PHARMACY
Program Code	:	1702
Course Name	:	Pharmaceutical Regulatory Sciences
Course Code	:	17057
Year/Sem	:	IV/VIII
Batch	:	A and B

BAREILLY INTERNATIONAL UNIVERSITY
BIU COLLEGE OF PHARMACY

Content List

S. No	Content
1.	Vision and Mission of the department
2.	Academic Calendar
3.	Syllabus
4.	Course Plan
5.	Monthly Lesson Plan
6.	List of Assign Student
7.	Class Time Table
8.	Faculty Time Table
9.	Assignment-I
10.	1st Sessional Question Paper
11.	Award list of 1st Sessional
12.	Assignment-II
13.	2nd Sessional Question Paper
14.	Award list of 2nd Sessional
15.	Improvement Sessional Question Paper
16.	Combined Award List
17.	University Main Exam Question Paper
18.	Result analysis for external exam of subject

Academic In-charge

Principal

BAREILLY INTERNATIONAL UNIVERSITY
BIU COLLEGE OF PHARMACY

(Vision and Mission of the department)

The vision and mission statements of B.I.U. College of Pharmacy often reflect their commitment to academic excellence, research, healthcare, and the overall development of students. They frequently emphasize the following aspects:

Vision:

- ✓ Striving for excellence in pharmaceutical education and research.
- ✓ Fostering an environment that encourages innovation, critical thinking, and ethical practices.
- ✓ Contributing to the advancement of healthcare and pharmaceutical sciences.
- ✓ Developing globally competent and socially responsible pharmacists.

Mission:

- ✓ Providing quality education and training in pharmaceutical sciences.
- ✓ Conducting cutting-edge research in various areas of pharmacy.
- ✓ Facilitating the holistic development of students, including academic, professional, and personal growth.
- ✓ Collaborating with industry and healthcare institutions to bridge the gap between academia and practice.

Instilling a sense of social responsibility and ethical values among students

Bareilly International University Bareilly

BIU College of Pharmacy

Academic calendar: 2023-24

B.Pharm

S.No	Particulars	Dates
1	Commencement of class of Academic Session 2023-24 for odd semester	Second week of August-2023
2	Independence Day Celebration	15/08/2023
3	Orientation Program B.Pharm Ist Year (New Batch)	16/08/2023
4*	Raksha Bandhan	30/08/2023
5	Last day of Submission of University Enrollment form	As per the notification
6*	Bara wafat (EID)	28/09/2023
7	Gandhi Jayanti celebration	02/10/2023
8	First Theory sessional examination	Third week of October -2023
9	First Practical sessional examination	Third week of October-2023
10*	Dussehra	24/10/2023
11*	Diwali Holiday	12/11/2023
12	Second theory Sessional Examination	Third week of December -2023
13	Second Practical sessional Examination	Third week of December-2023
14	Winter Vacation	Last week of December-2023
15	Date of Completion of ODD Semester Teaching Work	Second week of January-2024
16	Preparation Leave for Students	Third week of January-2024
17	University ODD Semester Theory & Practical Examination	Last week of January-2024
18	Declaration of result of ODD Semester Theory & Practical Examination	Last Week of Feb -2024
19	Commencement of Classes of Academic session 2023-24 for (Even Semester)	First Week of March -2024
20	First Theory sessional Examination for Even Semester	Second week of April-2024
21	First Practical sessional Examination for Even Semester	Second week of April-2024
22*	Holy	24/03/2024
23	Second Theory sessional Examination for Even semester	First Week of Jun -2024
24	Second Practical sessional Examination for Even semester	First Week of Jun -2024
25	Date of Completion of Even semester teaching work	Third Week of Jun -2024
26	Preparation Leave for Students	Last Week of Jun -2024
27	University Even semester Theory & Practical Examination	First Week of July -2024
28	Summer vacation / Semester Break	Second week of July-2024
29	Declaration of Result of Even Semester	First Week of August 2024

❖ **Note: As per University Notification**

Principal 25/07/2023

PRINCIPAL
BIU COLLEGE OF PHARMACY
BAREILLY

Course Code: 17057	Program/Discipline Specific Elective Course – 01 / 02 B. Pharm- Semester-VIII PHARMACEUTICAL REGULATORY SCIENCE	L-3 T-1 P-0 C-4
	Course Outcomes: On completion of the course, the students will be:	
CO1.	**Understanding the process of drug discovery and development.**	
CO2.	**Recognizing regulatory authorities and agencies governing the manufacturing, sales and distribution of pharmaceutical products.**	
CO3.	**Demonstrating regulatory approval process their registration in Indian and international markets.**	
	Course Contents:	
Unit-1:	**New Drug Discovery and development** Stages of drug discovery, Drug development process, pre-clinical studies, non-clinical activities, clinical studies, Innovator and generics, Concept of generics, Generic drug product development.	**10 hours**
Unit-2:	**Regulatory Approval Process** Approval processes and timelines involved in Investigational New Drug (IND), New Drug Application (NDA), Abbreviated New Drug Application (ANDA). Changes to an approved NDA / ANDA. **Regulatory authorities and agencies** Overview of regulatory authorities of India, United States, European Union, Australia, Japan, Canada (Organization structure and types of applications)	**10 hours**
Unit-3:	Registration of Indian drug product in overseas market Procedure for export of pharmaceutical products, Technical documentation, Drug Master Files (DMF), Common Technical Document (CTD), electronic Common Technical Document (eCTD), ASEAN Common Technical Document(ACTD)research.	**10 hours**
Unit-4:	**Clinical trials** Developing clinical trial protocols, Institutional Review Board / Independent Ethics committee - formation and working procedures, Informed consent process and procedures, GCP obligations of Investigators, sponsors & Monitors, Managing and Monitoring clinical trials, Pharmacovigilance - safety monitoring in clinical trials	**08 hours**
Unit-5:	**Regulatory Concepts** Basic terminology, guidance, guidelines, regulations, Laws and Acts, Orange book, Federal Register, Code of Federal Regulatory, Purple book	**07 hours**

Recommended books (Latest edition):

1. Drug Regulatory Affairs by Sachin Itkar, Dr. N.S. Vyawahare, Nirali Prakashan.
2. The Pharmaceutical Regulatory Process, Second Edition Edited by Ira R. Berry and Robert P. Martin, Drugs and the Pharmaceutical Sciences, Vol.185. Informa Health care Publishers.
3. New Drug Approval Process: Accelerating Global Registrations By Richard A Guarino, MD, 5th edition, Drugs and the Pharmaceutical Sciences, Vol.190.
4. Guidebook for drug regulatory submissions / Sandy Weinberg. By John Wiley & Sons. Inc.
5. FDA Regulatory Affairs: a guide for prescription drugs, medical devices, and biologics /edited by Douglas J. Pisano, David Mantus.
6. Generic Drug Product Development, Solid Oral Dosage forms, Leon Shargel and Isader Kaufer, Marcel Dekker series, Vol.143
7. Clinical Trials and Human Research: A Practical Guide to Regulatory Compliance By Fay A. Rozovsky and Rodney K. Adams
8. Principles and Practices of Clinical Research, Second Edition Edited by John I. Gallin and Frederick P. Ognibene
9. Drugs: From Discovery to Approval, Second Edition By Rick Ng

BAREILLY INTERNATIONAL UNIVERSITY
BIU COLLEGE OF PHARMACY
Rohilkhand Medical College Campus, Pilibhit by Pass Road, Bareilly. (U.P) – 243006 INDIA
Phone:- 0581-2526011, 2526012 (EPABX) Fax: 2526054, 2303345
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COURSE PLAN

Academic Session	**2023-2024 (Odd Semester)**	**Year/Semester**		**IV/VIII**	
Course	**B. Pharm**	**Subject Code**		**17057**	
Branch	**Pharmacy**	**Name of the Subject**		***PHARMACEUTICAL REGULATORY SCIENCE***	
Groups	**A and B**	**Name of Faculty Member**		**Ms. Anshika Choudhary**	
Contact	**9756594985**	**Location**		**301 and 302**	
				L	**C**
				1	**4**
Unit No. & Description	***Topics***	***Text Book***	**Chapter & Page No.**	**No. of Proposed Lectures**	**Teaching/ Learning Methodology**
Unit 1				**10**	
	New Drug Discovery and development • Stages of drug discovery and Drug development process	1	Chapter 2 Pg. No. 2.1-2.10	2	WB/PPT
	• Pre-clinical studies	1	Chapter 2 Pg. No. 2.1-2.10	1	WB/PPT
	• Non-clinical activities and clinical studies	1	Chapter 2 Pg. No. 2.1-2.10	2	WB/PPT
	• Innovator and generics	1	Chapter 2 Pg. No. 2.1-2.10	2	WB/PPT

	• Concept of generics	1	Chapter 2 Pg. No. 2.1-2.10	2	WB/PPT
	• Generic drug product development	1	Chapter 2 Pg. No. 2.1-2.10	1	WB/PPT
Unit 2				**10**	
	Regulatory Approval Process • Approval processes and timelines involved in Investigational New Drug (IND)	1	Chapter 4 Pg. No. 4.1- 4.10	2	WB/PPT
	• New Drug Application (NDA) and Abbreviated New Drug Application (ANDA)	1	Chapter 5 and 6 Pg. No. 5.1-5.10 6.1-6.4	2	WB/PPT
	• Changes to an approved NDA / ANDA	1	Chapter 11 Pg. No. 11.1-11.30	2	WB/PPT
	Regulatory authorities and agencies • Overview of regulatory authorities of India, United States, European Union	1	Chapter 11 Pg. No. 11.1-11.30	2	WB/PPT
	• Overview of regulatory authorities of Australia, Japan, Canada (Organization structure and types of applications)	1	Chapter 11 Pg. No. 11.1-11.30	2	WB/PPT
Unit 3				**10**	
	Registration of Indian drug product in overseas market • Procedure for export of pharmaceutical products	1	Chapter 10 Pg. No. 10.1-10.16	2	WB/PPT
	• Technical documentation and Drug Master Files (DMF)	1	Chapter 7 Pg. No. 7.1-7.10	2	WB/PPT
	• Common Technical Document (CTD)	1	Chapter 10 Pg. No.	2	WB/PPT

			10.1-10.16		
	• electronic Common Technical Document (eCTD)	1	Chapter 10 Pg. No. 10.1-10.16	2	WB/PPT
	• ASEAN Common Technical Document (ACTD)research	1	Chapter 10 Pg. No. 10.1-10.16	2	WB/PPT
Unit 4				**08**	
	Clinical trials • Developing clinical trial protocols	1	Chapter 14 Pg No. 14.1-14.40	2	WB/PPT
	• Institutional Review Board / Independent Ethics committee - formation and working procedures	1	Chapter 14 Pg No. 14.1-14.40	2	WB/PPT
	• GCP obligations of Investigators, sponsors & Monitors	1	Chapter 14 Pg No. 14.1-14.40	2	WB/PPT
	• Informed consent process and procedures, Managing and Monitoring clinical trials	1	Chapter 14 Pg No. 14.1-14.40	1	WB/PPT
	• Pharmacovigilance - safety monitoring in clinical trials	1	Chapter 14 Pg No. 14.1-14.40	1	WB/PPT
Unit 5				**07**	
	Regulatory Concepts • Basic terminology	1	Chapter 13 Pg. No. 13.1-13.130	2	WB/PPT
	• Guidance, guidelines, regulations, Laws and Acts	1	Chapter 13 Pg. No.	2	WB/PPT

			13.1-13.130		
	• Orange book	1	Chapter 13 Pg. No. 13.1-13.130	1	WB/PPT
	• Federal Register, Code of Federal Regulatory	1	Chapter 13 Pg. No. 13.1-13.130	1	WB/PPT
	• Purple book	1	Chapter 13 Pg. No. 13.1-13.130	1	WB/PPT

Abbreviations: L : Lecture
C : Credit

No. of Proposed Lectures…45
No. of Lectures Held…… 51

Date of Completion : 06/07/2024

Teacher's Assessment:

Details of Activities Planned:

Marks Allotted to Each Activity

Reference Books:
1) Drug Regulatory Affairs by Sachin Itkar, Dr. N.S. Vyawahare, Nirali Prakashan

(Signature of Faculty Member with date)

(Signature of Principal with date)

BAREILLY INTERNATIONAL UNIVERSITY
BIU COLLEGE OF PHARMACY
LESSON PLAN- March 2024

Faculty Name: Anshika Choudhary **Subject:** Pharmaceutical Regulatory Science

Subject Code: 17057 **Total No of Students:** 40

Following is the effective teaching lesson plan for the theory classes B. Pharm VIII Semester, Batch A for the month of March-2024, academic session 2023-24.

DATE	DAY	TIME	TOPIC	FACULTY
04/03/2024	Monday	9:00-10:00	Stages of drug discovery	Anshika Choudhary
05/03/2024	Tuesday	11:00-12:00	Stages of drug discovery	Anshika Choudhary
06/03/2024	Wednesday	02:00-03:00	Drug development process	Anshika Choudhary
08/03/2024	Friday	08:00-09:00	Drug development process	Anshika Choudhary
11/03/2024	Monday	9:00-10:00	Pre-clinical studies	Anshika Choudhary
12/03/2024	Tuesday	11:00-12:00	Non-clinical activities	Anshika Choudhary
13/03/2024	Wednesday	02:00-03:00	Clinical studies	Anshika Choudhary
15/03/2024	Friday	08:00-09:00	Clinical studies	Anshika Choudhary
18/03/2024	Monday	9:00-10:00	Innovator and generics	Anshika Choudhary
19/03/2024	Tuesday	11:00-12:00	Innovator and generics	Anshika Choudhary
20/03/2024	Wednesday	02:00-03:00	Concept of generics	Anshika Choudhary
22/03/2024	Friday	08:00-09:00	Concept of generics	Anshika Choudhary
26/03/2024	Tuesday	11:00-12:00	Generic drug product development	Anshika Choudhary
27/03/2024	Wednesday	02:00-03:00	Generic drug product development	Anshika Choudhary

Faculty In-Charge **Principal**

BAREILLY INTERNATIONAL UNIVERSITY
BIU COLLEGE OF PHARMACY
LESSON PLAN- March 2024

Faculty Name: Anshika Choudhary **Subject:** Pharmaceutical Regulatory Science

Subject Code: 17057 **Total No of Students:** 40

Following is the effective teaching lesson plan for the theory classes B. Pharm VIII Semester, Batch B for the month of March-2024, academic session 2023-24.

DATE	DAY	TIME	TOPIC	FACULTY
04/03/2024	Monday	11:00-12:00	Stages of drug discovery	Anshika Choudhary
06/03/2024	Wednesday	08:00-09:00	Stages of drug discovery	Anshika Choudhary
07/03/2024	Thursday	11:00-12:00	Drug development process	Anshika Choudhary
09/03/2024	Saturday	11:00-12:00	Drug development process	Anshika Choudhary
11/03/2024	Monday	11:00-12:00	Pre-clinical studies	Anshika Choudhary
13/03/2024	Wednesday	08:00-09:00	Non-clinical activities	Anshika Choudhary
14/03/2024	Thursday	11:00-12:00	Clinical studies	Anshika Choudhary
16/03/2024	Saturday	11:00-12:00	Clinical studies	Anshika Choudhary
18/03/2024	Monday	11:00-12:00	Innovator and generics	Anshika Choudhary
20/03/2024	Wednesday	08:00-09:00	Innovator and generics	Anshika Choudhary
21/03/2024	Thursday	11:00-12:00	Concept of generics	Anshika Choudhary
27/03/2024	Wednesday	08:00-09:00	Generic drug product development	Anshika Choudhary
28/03/2024	Thursday	11:00-12:00	Generic drug product development	Anshika Choudhary
30/03/2024	Saturday	11:00-12:00	Generic drug product development	Anshika Choudhary

Faculty In-Charge

Principal

BAREILLY INTERNATIONAL UNIVERSITY
BIU COLLEGE OF PHARMACY
LESSON PLAN- April 2024

Faculty Name: Anshika Choudhary **Subject:** Pharmaceutical Regulatory Science

Subject Code: 17057 **Total No of Students:** 40

Following is the effective teaching lesson plan for the theory classes B. Pharm VIII Semester, Batch A for the month of April-2024, academic session 2023-24.

DATE	DAY	TIME	TOPIC	FACULTY
01/04/2024	Monday	9:00-10:00	Approval processes and timelines involved in Investigational New Drug (IND)	Anshika Choudhary
02/04/2024	Tuesday	11:00-12:00	Approval processes and timelines involved in Investigational New Drug (IND)	Anshika Choudhary
03/04/2024	Wednesday	02:00-03:00	New Drug Application (NDA)	Anshika Choudhary
05/04/2024	Friday	08:00-09:00	New Drug Application (NDA)	Anshika Choudhary
08/04/2024	Monday	9:00-10:00	Abbreviated New Drug Application (ANDA)	Anshika Choudhary
09/04/2024	Tuesday	11:00-12:00	Abbreviated New Drug Application (ANDA)	Anshika Choudhary
10/04/2024	Wednesday	02:00-03:00	Changes to an approved NDA / ANDA	Anshika Choudhary
12/04/2024	Friday	08:00-09:00	Overview of regulatory authorities of India, United States, European Union, Australia, Japan, Canada	Anshika Choudhary
22/04/2024	Monday	9:00-10:00	Technical documentation, Drug Master Files (DMF)	Anshika Choudhary
23/04/2024	Tuesday	11:00-12:00	Common Technical Document (CTD)	Anshika Choudhary
24/04/2024	Wednesday	02:00-03:00	electronic Common Technical Document (eCTD)	Anshika Choudhary
29/04/2024	Monday	9:00-10:00	ASEAN Common Technical Document (ACTD)research	Anshika Choudhary
30/04/2024	Tuesday	11:00-12:00	ASEAN Common Technical Document (ACTD)research	Anshika Choudhary

Faculty In-Charge **Principal**

BAREILLY INTERNATIONAL UNIVERSITY
BIU COLLEGE OF PHARMACY
LESSON PLAN- April 2024

Faculty Name: Anshika Choudhary **Subject:** Pharmaceutical Regulatory Science

Subject Code: 17057 **Total No of Students:** 40

Following is the effective teaching lesson plan for the theory classes B. Pharm VIII Semester, Batch B for the month of April-2024, academic session 2023-24.

DATE	DAY	TIME	TOPIC	FACULTY
01/04/2024	Monday	11:00-12:00	Approval processes and timelines involved in Investigational New Drug (IND)	Anshika Choudhary
03/04/2024	Wednesday	08:00-09:00	Approval processes and timelines involved in Investigational New Drug (IND)	Anshika Choudhary
04/04/2024	Thursday	11:00-12:00	New Drug Application (NDA)	Anshika Choudhary
06/04/2024	Saturday	11:00-12:00	New Drug Application (NDA)	Anshika Choudhary
08/04/2024	Monday	11:00-12:00	Abbreviated New Drug Application (ANDA)	Anshika Choudhary
10/04/2024	Wednesday	08:00-09:00	Abbreviated New Drug Application (ANDA)	Anshika Choudhary
13/04/2024	Saturday	11:00-12:00	Changes to an approved NDA / ANDA Overview of regulatory authorities of India, United States, European Union, Australia, Japan, Canada	Anshika Choudhary
22/04/2024	Monday	11:00-12:00	Procedure for export of pharmaceutical products	Anshika Choudhary
24/04/2024	Wednesday	08:00-09:00	Technical documentation, Drug Master Files (DMF)	Anshika Choudhary
29/04/2024	Monday	11:00-12:00	Common Technical Document (CTD), electronic Common Technical Document (eCTD), ASEAN Common Technical Document (ACTD)research	Anshika Choudhary

Faculty In-Charge

Principal

BAREILLY INTERNATIONAL UNIVERSITY
BIU COLLEGE OF PHARMACY
LESSON PLAN- May 2024

Faculty Name: Anshika Choudhary **Subject:** Pharmaceutical Regulatory Science

Subject Code: 17057 **Total No of Students:** 40

Following is the effective teaching lesson plan for the theory classes B. Pharm VIII Semester, Batch A for the month of May-2024, academic session 2023-24.

DATE	DAY	TIME	TOPIC	FACULTY
01/05/2024	Wednesday	02:00-03:00	Procedure for export of pharmaceutical products	Anshika Choudhary
03/05/2024	Friday	08:00-09:00	Technical documentation, Drug Master Files (DMF)	Anshika Choudhary
06/05/2024	Monday	9:00-10:00	Common Technical Document (CTD)	Anshika Choudhary
08/05/2024	Wednesday	02:00-03:00	electronic Common Technical Document (eCTD)	Anshika Choudhary
10/05/2024	Friday	08:00-09:00	ASEAN Common Technical Document (ACTD)research	Anshika Choudhary
13/05/2024	Monday	9:00-10:00	ASEAN Common Technical Document (ACTD)research	Anshika Choudhary
14/05/2024	Tuesday	11:00-12:00	Developing clinical trial protocols	Anshika Choudhary
15/05/2024	Wednesday	02:00-03:00	Institutional Review Board / Independent Ethics committee - formation and working procedures	Anshika Choudhary
17/05/2024	Friday	08:00-09:00	Institutional Review Board / Independent Ethics committee - formation and working procedures	Anshika Choudhary
20/05/2024	Monday	9:00-10:00	Informed consent process and procedures	Anshika Choudhary
21/05/2024	Tuesday	11:00-12:00	Informed consent process and procedures	Anshika Choudhary
22/05/2024	Wednesday	02:00-03:00	GCP obligations of Investigators, sponsors & Monitors	Anshika Choudhary
24/05/2024	Friday	08:00-09:00	Managing and Monitoring clinical trials	Anshika Choudhary
27/05/2024	Monday	9:00-10:00	Managing and Monitoring clinical trials	Anshika Choudhary
28/05/2024	Tuesday	11:00-12:00	Pharmacovigilance - safety monitoring in clinical trials	Anshika Choudhary
31/05/2024	Friday	08:00-09:00	Pharmacovigilance - safety monitoring in clinical trials	Anshika Choudhary

Faculty In-Charge **Principal**

BAREILLY INTERNATIONAL UNIVERSITY
BIU COLLEGE OF PHARMACY
LESSON PLAN- May 2024

Faculty Name: Anshika Choudhary **Subject:** Pharmaceutical Regulatory Science

Subject Code: 17057 **Total No of Students:** 40

Following is the effective teaching lesson plan for the theory classes B. Pharm VIII Semester, Batch B for the month of May-2024, academic session 2023-24.

DATE	DAY	TIME	TOPIC	FACULTY
01/05/2024	Wednesday	08:00-09:00	Procedure for export of pharmaceutical products	Anshika Choudhary
02/05/2024	Thursday	11:00-12:00	Technical documentation, Drug Master Files (DMF)	Anshika Choudhary
04/05/2024	Saturday	11:00-12:00	Common Technical Document (CTD)	Anshika Choudhary
06/05/2024	Monday	11:00-12:00	electronic Common Technical Document (eCTD)	Anshika Choudhary
08/05/2024	Wednesday	08:00-09:00	electronic Common Technical Document (eCTD)	Anshika Choudhary
11/05/2024	Saturday	11:00-12:00	ASEAN Common Technical Document (ACTD)research	Anshika Choudhary
13/05/2024	Monday	11:00-12:00	Developing clinical trial protocols	Anshika Choudhary
15/05/2024	Wednesday	08:00-09:00	Institutional Review Board / Independent Ethics committee - formation and working procedures	Anshika Choudhary
16/05/2024	Thursday	11:00-12:00	Institutional Review Board / Independent Ethics committee - formation and working procedures	Anshika Choudhary
18/05/2024	Saturday	11:00-12:00	Informed consent process and procedures	Anshika Choudhary
20/05/2024	Monday	11:00-12:00	Informed consent process and procedures	Anshika Choudhary
22/05/2024	Wednesday	08:00-09:00	GCP obligations of Investigators, sponsors & Monitors	Anshika Choudhary
23/05/2024	Thursday	11:00-12:00	Managing and Monitoring clinical trials	Anshika Choudhary
25/05/2024	Saturday	11:00-12:00	Managing and Monitoring clinical trials	Anshika Choudhary
27/05/2024	Monday	11:00-12:00	Pharmacovigilance - safety monitoring in clinical trials	Anshika Choudhary
30/05/2024	Thursday	11:00-12:00	Pharmacovigilance - safety monitoring in clinical trials	Anshika Choudhary

Faculty In-Charge **Principal**

BAREILLY INTERNATIONAL UNIVERSITY
BIU COLLEGE OF PHARMACY
LESSON PLAN- June 2024

Faculty Name: Anshika Choudhary **Subject:** Pharmaceutical Regulatory Science

Subject Code: 17057 **Total No of Students:** 40

Following is the effective teaching lesson plan for the theory classes B. Pharm VIII Semester, Batch A for the month of June -2024, academic session 2023-24.

DATE	DAY	TIME	TOPIC	FACULTY
03/06/2024	Monday	9:00-10:00	Basic terminology, guidance, guidelines, regulations, Laws and Act	Anshika Choudhary
04/06/2024	Tuesday	11:00-12:00	Orange book	Anshika Choudhary
25/06/2024	Tuesday	11:00-12:00	Federal Register	Anshika Choudhary
26/06/2024	Wednesday	02:00-03:00	Code of Federal Regulatory	Anshika Choudhary
28/06/2024	Friday	08:00-09:00	Purple book	Anshika Choudhary

Faculty In Charge **Principal**

BIU COLLEGE OF PHARMACY PRINCIPAL BAREILLY

BAREILLY INTERNATIONAL UNIVERSITY
BIU COLLEGE OF PHARMACY
LESSON PLAN- June 2024

Faculty Name: Anshika Choudhary **Subject:** Pharmaceutical Regulatory Science

Subject Code: 17057 **Total No of Students:** 40

Following is the effective teaching lesson plan for the theory classes B. Pharm VIII Semester, Batch B for the month of June -2024, academic session 2023-24.

DATE	DAY	TIME	TOPIC	FACULTY
03/06/2024	Monday	11:00-12:00	Basic terminology, guidance, guidelines, regulations, Laws and Act	Anshika Choudhary
26/06/2024	Wednesday	08:00-09:00	Orange book	Anshika Choudhary
27/06/2024	Thursday	11:00-12:00	Federal Register, Code of Federal Regulatory	Anshika Choudhary
29/06/2024	Saturday	11:00-12:00	Purple Book	Anshika Choudhary

Faculty In-Charge **Principal**

BAREILLY INTERNATIONAL UNIVERSITY
BIU COLLEGE OF PHARMACY
LESSON PLAN- July 2024

Faculty Name: Anshika Choudhary **Subject:** Pharmaceutical Regulatory Science

Subject Code: 17057 **Total No of Students:** 40

Following is the effective teaching lesson plan for the theory classes B. Pharm VIII Semester, Batch A for the month of July -2024, academic session 2023-24.

DATE	DAY	TIME	TOPIC	FACULTY
01/07/2024	Monday	9:00-10:00	Revision	Anshika Choudhary
02/07/2024	Tuesday	11:00-12:00	Revision	Anshika Choudhary
03/07/2024	Wednesday	02:00-03:00	Revision	Anshika Choudhary
05/07/2024	Friday	08:00-09:00	Revision	Anshika Choudhary

Faculty In-Charge **Principal**

BAREILLY INTERNATIONAL UNIVERSITY
BIU COLLEGE OF PHARMACY
LESSON PLAN- July 2024

Faculty Name: Anshika Choudhary **Subject:** Pharmaceutical Regulatory Science

Subject Code: 17057 **Total No of Students:** 40

Following is the effective teaching lesson plan for the theory classes B. Pharm VIII Semester, Batch B for the month of July -2024, academic session 2023-24.

DATE	DAY	TIME	TOPIC	FACULTY
01/07/2024	Monday	11:00-12:00	Revision	Anshika Choudhary
03/07/2024	Wednesday	08:00-09:00	Revision	Anshika Choudhary
04/07/2024	Thursday	11:00-12:00	Revision	Anshika Choudhary
06/07/2024	Saturday	11:00-12:00	Revision	Anshika Choudhary

Faculty In-Charge **Principal**

List of Assign Students

S.No.	Roll No.	Enrollment	Students Name
1	211702001	200105	Abhishek Gangwar
2	211702002	200106	Abhishek Singh
3	211702003	200107	Adesh Kumar
4	211702004	200108	Aditya Kumar Sharma
5	211702005	200109	Aman Jaiswal
6	211702007	200403	Ankit Saxena
7	211702008	200110	Ankul Singh
8	211702009	200679	Ankur Gangwar
9	211702010	200680	Anurag
10	211702012	200112	Arpit Patel
11	211702013	200363	Arun Gangwar
12	211702015	200361	Ashish Yadav
13	211702017	200404	Atal Ojha
14	211702018	200104	Atul Kumar
15	211702019	200115	Avinash Gangwar
16	211702020	200116	Bhoopendra Singh
17	211702021	200729	Bijpal
18	211702022	200117	Chirag Patel
19	211702023	200118	Deendayal Rathaur
20	211702024	200398	Deepak Kumar Saini
21	211702025	200405	Deepali Kashyap
22	211702026	200797	Deepanshu Shukla
23	211702027	200119	Dharam Pal
24	211702028	200120	Dheeraj Kumar
25	211702029	200121	Dilshad Husain
26	211702030	200681	Dinesh Kumar
27	211702031	200399	Divyansh Singh
28	211702032	200122	Durvesh Kumar
29	211702033	200123	Fajal Khan
30	211702034	200410	Fiza Bee
31	211702035	200402	Gaurav Shakya
32	211702036	200364	Gaurav Yadav
33	211702038	200125	Gunjeet Kumar Singh
34	211702040	200127	Himani
35	211702041	200128	Himanshu Gangwar
36	211702043	200130	Kamal Kumar
37	211702044	200406	Kapil Kumar
38	211702045	200131	Kaushik Shrivastav
39	211702046	200730	Keshav
40	211702047	200141	Keshav Yadav

41	211702048	200409	Kiran Maurya
42	211702050	200165	Manish Chaudhary
43	211702053	200137	Mohd Rehan
44	211702055	200163	Mohd Tahir Idrishi
45	211702057	200142	Mukesh Chaudhary
46	211702058	200812	Narendra Singh
47	211702059	200135	Nitin Sharma
48	211702060	200148	Pankaj Rathore
49	211702061	200153	Pankaj Yadav
50	211702062	200368	Parakh Kaushik
51	211702063	200160	Piyush Verma
52	211702064	200149	Pragati Srivastava
53	211702065	200151	Prahlad
54	211702066	200365	Praveen Kumar
55	211702068	200146	Rahul Shakya
56	211702069	200152	Ravindra Gangwar
57	211702070	200144	Rustam
58	211702072	200411	Sachin Patel
59	211702073	200158	Santosh Gangwar
60	211702076	200166	Satish Yadav
61	211702077	200408	Satya Veer Singh
62	211702078	200407	Satya Veer
63	211702079	200367	Saumya Tiwari
64	211702080	200369	Saurabh Kumar
65	211702082	200400	Sheetal Gangwar
66	211702083	200155	Shikhar Sharma
67	211702084	200147	Shivam Kumar
68	211702085	200366	Shivam Pal
69	211702086	200813	Srashti Thakur
70	211702087	200134	Subham Shukla
71	211702088	200156	Sumit Kumar Rathore
72	211702090	200139	Ujjwal
73	211702091	200140	Uma Shanker
74	211702092	200133	Vikas Solanki
75	211702094	200145	Vishal Gutpa
76	221702501	210216	Neetish Kumar Verma
77	201702034	190188	Rahul Yadav
78	201702008	190164	Amir Ali
79	201702028	190185	Prabhanshu Pal
80	201702038	190192	Romanchak Sharma

B. Pharm VIII Semester Section A Time Table

BIU College of Pharmacy

Bareilly International University

CLASS TIME TABLE
[SESSION:2023-24 (Even Semester)]
(w.e.f 04/03/2024)

		Pharmacokinetics									
17047	P'BIOTECH	Pharmaceutical Biotechnology	Mr. Uday Pratap Singh	3	1	9	4				
17048	Q. A	Quality Assurance	Ms. Himanshi	3	1		4				
		Total					30				

CLASS INCHARGE: - Mr. Prashant Kumar Sharma

COURSE: B. PHARM **YEAR: IV** **SEMESTER: VIII** **SECTION: A** **ROOM No. 301**

TIME/ DAY	08:00 A.M 09:00 A.M	09:00 A.M- 10:00 A.M	10:00 A.M 11:00 A.M	11:00 A.M 12:00 P.M	12:00 P.M-01:00 P.M	01:00 P.M 02:00 P.M	02:00 P.M 03:00 P.M	03:00 P.M 04:00 P.M
MONDAY	BIOSTATICS (L)	REGULATORY SCIENCES (L)	LIB	STD. OF HERBAL (L)	LUNCH	ELECTIVE PROJECT		
TUESDAY	STD. OF HERBAL (L)	SOCIAL & P. PHARMACY (L)	LIB	REGULATORY SCIENCES (L)		ELECTIVE PROJECT		
WEDNESDAY	BIOSTATICS (L)	SEMIAR (L)				SOCIAL & P. PHARMACY (L)	REGULATORY SCIENCES (T)	LIB
THURSDAY	STD. OF HERBAL (L)	SOCIAL & P. PHARMACY (L)	SEMINAR			ELECTIVE PROJECT		
FRIDAY	REGULATORY SCIENCES (L)	BIOSTATICS (T)	SEMINAR			ELECTIVE PROJECT		
SATURDAY	BIOSTATICS (L)	LIB	SOCIAL & P. PHARMACY (T)	STD. OF HERBAL (T)		GAMES		

Code	Abbreviation	Theory Subject	Full Name of faculty	Period & Credit				University Subject Code	Practical Subject	Room (Second floor)
				L	T	P	C			
17054	BIOSTATICS	Biostatistics and Research Methodology	Mr. Pankaj Kumar Tripathi	3	1	0	4	17710		
17055	SOCIAL & P. PHARMACY	Social and Preventive Pharmacy	Mrs. Suman	3	1	0	4	17711		
17057	REGULATORY SCIENCES	Pharmaceutical Regulatory Science	Ms. Anshika Choudhary	3	1	0	4	17712		

Time Table Committee **Academic Incharge** **Principal**

B. Pharm VIII Semester Section B Time Table

BIU College of Pharmacy

Bareilly International University

CLASS TIME TABLE
[SESSION:2023-24 (Even Semester)]
(w.e.f 04/03/2024)

17059	STD. OF HERBAL	Quality Control and Standardizations of Herbals	Mr. Rohit Kumar Bijauliya	3	1	0	4	17713		
17736		Elective project		0	0	12	6	17714		
		Total					22			

CLASS INCHARGE: - Mr. Rohit Kumar Bijauliya

COURSE: B. PHARM **YEAR: IV** **SEMESTER: VIII** **SECTION: B** **ROOM No. 302**

TIME/ DAY	08:00 A.M 09:00 A.M	09:00 A.M-10:00 A.M	10:00 A.M 11:00 A.M	11:00 A.M 12:00 P.M	12:00 P.M-01:00 P.M	01:00 P.M-02:00 P.M	02:00 P.M 03:00 P.M	03:00 P.M 04:00 P.M
MONDAY	SOCIAL & P. PHARMACY (L)	STD. OF HERBAL (L)	LIB	REGULATORY SCIENCES (L)	LUNCH	ELECTIVE PROJECT		
TUESDAY	BIOSTATICS (L)	ELECTIVE PROJECT				STD. OF HERBAL (L)	SOCIAL & P. PHARMACY (L)	LIB
WEDNESDAY	REGULATORY SCIENCES (L)	SEMIAR (L)				SEMINAR		BIOSTATICS (L)
THURSDAY	BIOSTATICS (L)	LIB	STD. OF HERBAL (T)	REGULATORY SCIENCES (T)		ELECTIVE PROJECT		
FRIDAY	SOCIAL & P. PHARMACY (L)	STD. OF HERBAL (L)	LIB	BIOSTATICS (L)		GAMES		
SATURDAY	SOCIAL & P. PHARMACY (T)	SEMINAR		REGULATORY SCIENCES (L)		ELECTIVE PROJECT		

Code	Abbreviation	Theory Subject	Full Name of faculty	Period & Credit				University Subject Code	Practical Subject	Room (Second floor)
				L	T	P	C			
17054	BIOSTATICS	Biostatistics and Research Methodology	Prashant kr. Sharma	3	1	0	4	17710		
17055	SOCIAL & P. PHARMACY	Social and Preventive Pharmacy	Mrs. Suman	3	1	0	4	17711		
17057	REGULATORY SCIENCES	Pharmaceutical Regulatory Science	Ms. Anshika Choudhary	3	1	0	4	17712		
17059	STD. OF	Quality Control and	Mr. Rohit Kumar	3	1	0	4	17713		

Time Table Committee **Academic Incharge** **Principal**

BAREILLY INTERNATIONAL UNIVERSITY
BIU COLLEGE OF PHARMACY
B. Pharm VIII Semester Section A
Ms. Anshika Choudhary
(Assistant Professor)

BIU College of Pharmacy
Bareilly International University

CLASS TIME TABLE
[SESSION:2023-24 (Even Semester)]
(w.e.f 04/03/2024)

CLASS INCHARGE: - Mr. Prashant Kumar Sharma

COURSE: B. PHARM **YEAR: IV** **SEMESTER: VIII** **SECTION: A** **ROOM No. 301**

TIME/DAY	08:00 A.M 09:00 A.M	09:00 A.M- 10:00 A.M	10:00 A.M 11:00 A.M	11:00 A.M 12:00 P.M	12:00 P.M-01:00 P.M	01:00 P.M 02:00 P.M	02:00 P.M 03:00 P.M	03:00 P.M 04:00 P.M
MONDAY		REGULATORY SCIENCES						
TUESDAY				REGULATORY SCIENCES				
WEDNESDAY							REGULATORY SCIENCES	
THURSDAY								
FRIDAY	REGULATORY SCIENCES							
SATURDAY								

Program	Year	Course	Course Code	Theory /Practical	Class Room	Lab No.	Total Workload
B. Pharm	IV/VIII	B. Pharm	1702	Theory	301	-	04 Hrs

Time Table Committee

Academic Incharge

Principal

BAREILLY INTERNATIONAL UNIVERSITY
BIU COLLEGE OF PHARMACY

B. Pharm VIII Semester Section B
Ms. Anshika Choudhary
(Assistant Professor)

BIU College of Pharmacy
Bareilly International University

CLASS TIME TABLE
[SESSION:2023-24 (Even Semester)]
(w.e.f 04/03/2024)

CLASS INCHARGE: - Mr. Rohit Kumar Bijauliya

COURSE: B. PHARM **YEAR: IV** **SEMESTER: VIII** **SECTION: B** **ROOM No. 302**

TIME/DAY	08:00 A.M 09:00 A.M	09:00 A.M-10:00 A.M	10:00 A.M 11:00 A.M	11:00 A.M 12:00 P.M	12:00 P.M-01:00 P.M	01:00 P.M-02:00 P.M	02:00 P.M 03:00 P.M	03:00 P.M 04:00 P.M
MONDAY				REGULATORY SCIENCES				
TUESDAY								
WEDNESDAY	REGULATORY SCIENCES							
THURSDAY				REGULATORY SCIENCES				
FRIDAY								
SATURDAY				REGULATORY SCIENCES				

Program	Year	Course	Course Code	Theory /Practical	Class Room	Lab No.	Total Workload
B. Pharm	IV/VIII	B. Pharm	1702	Theory	302	-	04 Hrs

Time Table Committee

Academic Incharge

Principal

1st Sessional Question Paper

Bareilly International University, Bareilly

BIU COLLEGE OF PHARMACY

First Sessional Examination

Session	2023-24 (Even Sem.)		Semester		8th Semester
Course	B. Pharm.		Subject Code		17057
Subject Name	Pharmaceutical Regulatory Sciences		Name of Student		
Date		**Duration**	**60 Minute**	**M.M.**	**30**
University Roll No:			To be filled in by the Student		

Section I (very short ans. type Questions)
(Ans. should be approx. 25 to 50 words)

Q1. Attempt all questions **(2X5=10)**

a) Differentiate between innovators and generics.
b) Define new drug according to FDA.
c) Write the full form of CDER and IRB.
d) Write in brief about concept of generics.
e) Write the steps involved in Generic drug product development process.

Section II (short ans. type Questions)
(Ans. should be approx. 200 to 350 words)

Q2. Attempt any two questions **(5X2=10)**

a) Discuss the various phases of clinical trials.
b) Write a short note on pre-clinical trials.
c) Explain NDA filing at the FDA with the help of a flow chart.

Section III (Long ans. type Questions)
(Ans. should be approx. 500 to 750 words)

Q3. Attempt any one question **(10X1=10)**

a) Explain the various stages of drug discovery.
b) Discuss the process of filing INDA.

1st Sessional Award list

BAREILLY INTERNATIONAL UNIVERSITY, BAREILLY
BIU COLLEGE OF PHARMACY
First Sessional Examination -April,2024
Session – (2023-2024)
AWARD LIST(THEORY)

Course: - B. Pharm -8th Sem
Subject Name: - Pharma ceutical Regulatory sciences
Subject Code: 17057
Date of Examination: - 18/04/2024
Day: - Thursday

S.No.	Roll No.	Enrollment No.	Name of Student	Marks Obtain- 30	
				Marks (Figure)	Marks (Words)
1.	211702001	200105	Abhishek Gangwar	17	seventeen
2.	211702002	200106	Abhishek Singh	20	Twenty only
3.	211702003	200107	Adesh Kumar	26	Twenty six
4.	211702004	200108	Aditya Kumar Sharma	17	seventeen
5.	211702005	200109	Aman Jaiswal	ABSENT	ABSENT
6.	211702007	200403	Ankit Saxena	22	Twenty two
7.	211702008	200110	Ankul Singh	22	Twenty two
8.	211702009	200679	Ankur Gangwar	23	Twenty three
9.	211702010	200680	Anurag	ABSENT	ABSENT
10.	211702012	200112	Arpit Patel	ABSENT	ABSENT
11.	211702013	200363	Arun Gangwar	22	Twenty two
12.	211702015	200361	Ashish Yadav	ABSENT	ABSENT
13.	211702017	200404	Atal Ojha	25	Twenty five
14.	211702018	200104	Atul Kumar	23	Twenty three
15.	211702019	200115	Avinash Gangwar	19	Nineteen
16.	211702020	200116	Bhoopendra Singh	ABSENT	ABSENT
17.	211702021	200729	Bijpal	18	Eighteen
18.	211702022	200117	Chirag Patel	18	Eighteen
19.	211702023	200118	Deendayal Rathaur	17	seventeen
20.	211702024	200398	Deepak Kumar Saini	21	Twenty one
21.	211702025	200405	Deepali Kashyap	26	Twenty six
22.	211702026	200797	Deepanshu Shukla	ABSENT	ABSENT
23.	211702027	200119	Dharam Pal	25	Twenty five
24.	211702028	200120	Dheeraj Kumar	ABSENT	ABSENT
25.	211702029	200121	Dilshad Hussain	ABSENT	ABSENT

Answ'key
Subject-in Charge Sign.

BAREILLY INTERNATIONAL UNIVERSITY, BAREILLY
BIU COLLEGE OF PHARMACY
First Sessional Examination -April,2024
Session – (2023-2024)
AWARD LIST(THEORY)

Course: - B. Pharm -8th Sem

Subject Name: - Pharmaceutical Regulatory Sciences Subject Code: 17057

Date of Examination: - 18/04/2024 Day: - Thursday

S.No.	Roll No.	Enrollment No.	Name of Student	Marks Obtain- 30	
				Marks (Figure)	Marks (Words)
26.	211702030	200681	Dinesh Kumar	17	seventeen
27.	211702031	200399	Divyansh Singh	20	Twenty only
28.	211702032	200122	Durvesh Kumar	20	Twenty only
29.	211702033	200123	Fajal Khan	ABSENT	ABSENT
30.	211702034	200410	Fiza Bee	ABSENT	ABSENT
31.	211702035	200402	Gaurav Shakya	ABSENT	ABSENT
32.	211702036	200364	Gaurav Yadav	ABSENT	ABSENT
33.	211702038	200125	Gunjeet Kumar Singh	ABSENT	ABSENT
34.	211702040	200127	Himani	21	Twenty one
35.	211702041	200128	Himanshu Gangwar	18	Eighteen
36.	211702043	200130	Kamal Kumar	16	Sixteen
37.	211702044	200406	Kapil Kumar	18	Eighteen
38.	211702045	200131	Kaushik Shrivastav	17	seventeen
39.	211702046	200730	Keshav	ABSENT	ABSENT
40.	211702047	200141	Keshav Yadav	19	Nineteen
41.	211702048	200409	Kiran Maurya	16	sixteen
42.	211702050	200165	Manish Chaudhary	09	Nine only
43.	211702053	200137	Mohd Rehan	18	Eighteen
44.	211702055	200163	Mohd. Tahir Idrishi	15	Fifteen
45.	211702057	200142	Mukesh Chaudhary	20	Twenty only
46.	211702058	200812	Narendra Singh	ABSENT	ABSENT
47.	211702059	200135	Nitin Sharma	18	Eighteen
48.	211702060	200148	Pankaj Rathore	02	Two only
49.	211702061	200153	Pankaj Yadav	18	Eighteen

Answilen

Subject-in Charge Sign.

BAREILLY INTERNATIONAL UNIVERSITY, BAREILLY
BIU COLLEGE OF PHARMACY
First Sessional Examination -April,2024
Session – (2023-2024)
AWARD LIST(THEORY)

Course: - B. Pharm -8th Sem

Subject Name: - Pharmaceutical Regulatory Sciences Subject Code: 17057

Date of Examination: - 18/04/2024 Day: - Thursday

S.No.	Roll No.	Enrollment No.	Name of Student	Marks Obtain- 30	
				Marks (Figure)	Marks (Words)
50.	211702062	200368	Parakh Kaushik	ABSENT	ABSENT
51.	211702063	200160	Piyush Verma	ABSENT	ABSENT
52.	211702064	200149	Pragati Srivastava	27	Twenty seven
53.	211702065	200151	Prahlad	24	Twenty four
54.	211702066	200365	Praveen Kumar	18	Eighteen
55.	211702068	200146	Rahul Shakya	17	seventeen
56.	211702069	200152	Ravindra Gangwar	16	sixteen
57.	211702070	200144	Rustam	20	Twenty only
58.	211702072	200411	Sachin Patel	28	Twenty eight
59.	211702073	200158	Santosh Gangwar	17	seventeen
60.	211702076	200166	Satish Yadav	ABSENT	ABSENT
61.	211702077	200408	Satya Veer Singh	16	sixteen
62.	211702078	200407	Satya Veer	16	sixteen
63.	211702079	200367	Saumya Tiwari	26	Twenty six
64.	211702080	200369	Saurabh Kumar	17	seventeen
65.	211702082	200400	Sheetal Gangwar	22	Twenty two
66.	211702083	200155	Shikhar Sharma	20	Twenty only
67.	211702084	200147	Shivam Kumar	10	Ten only
68.	211702085	200366	Shivam Pal	15	Fifteen
69.	211702086	200813	Srashti Thakur	15	Fifteen
70.	211702087	200134	Shubham Shukla	20	Twenty only
71.	211702088	200156	Sumit Kumar Rathore	13	Thirteen
72.	211702090	200139	Ujjwal	18	Eighteen
73.	211702091	200140	Uma Shanker	18	Eighteen

Anshika

Subject-in Charge Sign.

BAREILLY INTERNATIONAL UNIVERSITY, BAREILLY

BIU COLLEGE OF PHARMACY

First Sessional Examination -April,2024

Session – (2023-2024)

AWARD LIST(THEORY)

Course: - B. Pharm -8th Sem

Subject Name: - Pharmaceutical Regulatory Sciences **Subject Code:** 17057

Date of Examination: - 18/04/2024 **Day: -** Thursday

S.No.	Roll No.	Enrollment No.	Name of Student	Marks Obtain- 30	
				Marks(Figure)	Marks (Words)
74.	211702092	200133	Vikas Solanki	16	Sixteen
75.	211702094	200145	Vishal Gupta	ABSENT	ABSENT
76.	221702501	210216	Neetish Kumar Verma	20	Twenty only
77.	201702034	190188	Rahul Yadav	ABSENT	ABSENT
78.	201702008	190164	Amir Ali	ABSENT	ABSENT
79.	201702028	190185	Prabhanshu Pal	ABSENT	ABSENT
80.	201702038	190192	Romanchak Sharma	ABSENT	ABSENT

Anshuley

Subject-in Charge Sign.

2nd Sessional Question Paper

Bareilly International University, Bareilly					
BIU COLLEGE OF PHARMACY					
Second Sessional Examination					
Session	2023-24 (Even Sem.)		Semester	8th Semester	
Course	B. Pharm.		Subject Code	17057	
Subject Name	Pharmaceutical Regulatory Sciences		Name of Student		
Date		**Duration**	**60 Minute**	**M.M.**	**30**
University Roll No:			To be filled in by the Student		

Section I (very short ans. type Questions)
(Ans. should be approx. 25 to 50 words)

Q1. Attempt all questions **(2X5=10)**

f) Define Informed Consent.
g) Write the functions of CDSCO.
h) What are the objectives of regulatory affairs?
i) Differentiate between CTD and eCTD.
j) Define Pre-clinical studies.

Section II (short ans. type Questions)
(Ans. should be approx. 200 to 350 words)

Q2. Attempt any two questions **(5X2=10)**

d) Explain the salient features of Pharmacovigilance.
e) Discuss about Orange book and Purple book.
f) Explain the constitution and functions of Institutional Review Board.

Section III (Long ans. type Questions)
(Ans. should be approx. 500 to 750 words)

Q3. Attempt any one question **(10X1=10)**

c) Explain in detail about CTD and eCTD.
d) What is DMF? Explain the contents of DMF.

2nd Sessional Award List

BAREILLY INTERNATIONAL UNIVERSITY, BAREILLY
BIU COLLEGE OF PHARMACY
Second Sessional Examination -June,2024
Session – (2023-2024)
AWARD LIST(THEORY)

Course: - B. Pharm -8th Sem

Subject Name: - Pharmaceutical Regulatory Sciences **Subject Code:** 17057

Date of Examination: - 21/06/2024 **Day: -** Friday

S.No.	Roll No.	Enrollment No.	Name of Student	Marks Obtain- 30	
				Marks (Figure)	Marks (Words)
1.	211702001	200105	Abhishek Gangwar	15	Fifteen
2.	211702002	200106	Abhishek Singh	20	Twenty only
3.	211702003	200107	Adesh Kumar	23	Twenty three
4.	211702004	200108	Aditya Kumar Sharma	16	Sixteen
5.	211702005	200109	Aman Jaiswal	ABSENT	ABSENT
6.	211702007	200403	Ankit Saxena	22	Twenty two
7.	211702008	200110	Ankul Singh	23	Twenty three
8.	211702009	200679	Ankur Gangwar	25	Twenty five
9.	211702010	200680	Anurag	19	Nineteen
10.	211702012	200112	Arpit Patel	21	Twenty one
11.	211702013	200363	Arun Gangwar	19	Nineteen
12.	211702015	200361	Ashish Yadav	20	Twenty only
13.	211702017	200404	Atal Ojha	24	Twenty four
14.	211702018	200104	Atul Kumar	18	Eighteen
15.	211702019	200115	Avinash Gangwar	15	Fifteen
16.	211702020	200116	Bhoopendra Singh	15	Fifteen
17.	211702021	200729	Bijpal	19	Nineteen
18.	211702022	200117	Chirag Patel	20	Twenty only
19.	211702023	200118	Deendayal Rathaur	17	Seventeen
20.	211702024	200398	Deepak Kumar Saini	18	Eighteen
21.	211702025	200405	Deepali Kashyap	ABSENT	ABSENT
22.	211702026	200797	Deepanshu Shukla	19	Nineteen
23.	211702027	200119	Dharam Pal	23	Twenty three
24.	211702028	200120	Dheeraj Kumar	18	Eighteen
25.	211702029	200121	Dilshad Hussain	16	Sixteen

Anshu Lw

Subject-in Charge Sign.

BAREILLY INTERNATIONAL UNIVERSITY, BAREILLY
BIU COLLEGE OF PHARMACY
Second Sessional Examination -June,2024
Session – (2023-2024)
AWARD LIST(THEORY)

Course: - B. Pharm -8th Sem

Subject Name: - Pharmaceutical Regulatory Sciences Subject Code: 17057

Date of Examination: - 21/06/2024 Day: - Friday

S.No.	Roll No.	Enrollment No.	Name of Student	Marks Obtain- 30	
				Marks (Figure)	Marks (Words)
26.	211702030	200681	Dinesh Kumar	18	Eighteen
27.	211702031	200399	Divyansh Singh	20	Twenty only
28.	211702032	200122	Durvesh Kumar	20	Twenty only
29.	211702033	200123	Fajal Khan	18	Eighteen
30.	211702034	200410	Fiza Bee	17	Seventeen
31.	211702035	200402	Gaurav Shakya	19	Nineteen
32.	211702036	200364	Gaurav Yadav	20	Twenty only
33.	211702038	200125	Gunjeet Kumar Singh	17	Seventeen
34.	211702040	200127	Himani	22	Twenty two
35.	211702041	200128	Himanshu Gangwar	19	Nineteen
36.	211702043	200130	Kamal Kumar	16	Sixteen
37.	211702044	200406	Kapil Kumar	06	Six only
38.	211702045	200131	Kaushik Shrivastav	17	Seventeen
39.	211702046	200730	Keshav	ABSENT	ABSENT
40.	211702047	200141	Keshav Yadav	16	Sixteen
41.	211702048	200409	Kiran Maurya	18	Eighteen
42.	211702050	200165	Manish Chaudhary	22	Twenty two
43.	211702053	200137	Mohd Rehan	21	Twenty one
44.	211702055	200163	Mohd. Tahir Idrishi	16	Sixteen
45.	211702057	200142	Mukesh Chaudhary	21	Twenty one
46.	211702058	200812	Narendra Singh	03	Three only
47.	211702059	200135	Nitin Sharma	25	Twenty five
48.	211702060	200148	Pankaj Rathore	09	Nine only
49.	211702061	200153	Pankaj Yadav	20	Twenty only

Anshika

Subject-in Charge Sign.

BAREILLY INTERNATIONAL UNIVERSITY, BAREILLY
BIU COLLEGE OF PHARMACY
Second Sessional Examination -June,2024
Session – (2023-2024)
AWARD LIST(THEORY)

Course: - B. Pharm -8th Sem

Subject Name: - Pharmaceutical Regulatory Sciences **Subject Code:** 17057

Date of Examination: - 21/06/2024 **Day: -** Friday

S.No.	Roll No.	Enrollment No.	Name of Student	Marks Obtain- 30	
				Marks (Figure)	Marks (Words)
50.	211702062	200368	Parakh Kaushik	ABSENT	ABSENT
51.	211702063	200160	Piyush Verma	21	Twenty one
52.	211702064	200149	Pragati Srivastava	25	Twenty five
53.	211702065	200151	Prahlad	26	Twenty six
54.	211702066	200365	Praveen Kumar	23	Twenty three
55.	211702068	200146	Rahul Shakya	24	Twenty four
56.	211702069	200152	Ravindra Gangwar	22	Twenty two
57.	211702070	200144	Rustam	21	Twenty one
58.	211702072	200411	Sachin Patel	27	Twenty seven
59.	211702073	200158	Santosh Gangwar	17	Seventeen
60.	211702076	200166	Satish Yadav	03	Three only
61.	211702077	200408	Satya Veer Singh	18	Eighteen
62.	211702078	200407	Satya Veer	19	Nineteen
63.	211702079	200367	Saumya Tiwari	27	Twenty seven
64.	211702080	200369	Saurabh Kumar	20	Twenty
65.	211702082	200400	Sheetal Gangwar	23	Twenty three
66.	211702083	200155	Shikhar Sharma	24	Twenty four
67.	211702084	200147	Shivam Kumar	15	Fifteen
68.	211702085	200366	Shivam Pal	19	Nineteen
69.	211702086	200813	Srashti Thakur	18	Eighteen
70.	211702087	200134	Shubham Shukla	25	Twenty five
71.	211702088	200156	Sumit Kumar Rathore	10	Ten only
72.	211702090	200139	Ujjwal	22	Twenty two
73.	211702091	200140	Uma Shanker	18	Eighteen

Anshika

Subject-in Charge Sign.

BAREILLY INTERNATIONAL UNIVERSITY, BAREILLY
BIU COLLEGE OF PHARMACY
Second Sessional Examination -June,2024
Session – (2023-2024)
AWARD LIST(THEORY)

Course: - B. Pharm -8th Sem

Subject Name: - Pharmaceutical Regulatory Sciences **Subject Code:** 17057

Date of Examination: - 21/06/2024 **Day: -** Friday

S.No.	Roll No.	Enrollment No.	Name of Student	Marks Obtain- 20	
				Marks(Figure)	Marks (Words)
74.	211702092	200133	Vikas Solanki	21	Twenty one
75.	211702094	200145	Vishal Gupta	20	Twenty only
76.	221702501	210216	Neetish Kumar Verma	24	Twenty four
77.	201702034	190188	Rahul Yadav .	ABSENT	ABSENT
78.	201702008	190164	Amir Ali	ABSENT	ABSENT
79.	201702028	190185	Prabhanshu Pal	ABSENT	ABSENT
80.	201702038	190192	Romanchak Sharma	ABSENT	ABSENT

Anshika.
Subject-in Charge Sign.

Improvement Sessional Question Paper

Bareilly International University, Bareilly

BIU COLLEGE OF PHARMACY

Improvement Sessional Examination

Session	2023-24 (Even Sem.)		Semester		8th Semester
Course	B. Pharm.		Subject Code		17057
Subject Name	Pharmaceutical Regulatory Sciences		Name of Student		
Date		**Duration**	**60 Minutes**	**M.M.**	**30**
University Roll No:			To be filled in by the student		

Section I (very short ans. type Questions)
(Ans. should be approx. 25 to 50 words)

Q1. Attempt all questions **(2X5=10)**

a) Differentiate between innovators and generics.
b) Write the full form of CDER and IRB.
c) What are the objectives of regulatory affairs?
d) Differentiate between CTD and eCTD.
e) Define pre-clinical studies.

Section II (short ans. type Questions)
(Ans. should be approx. 200 to 350 words)

Q2. Attempt any two questions **(5X2=10)**

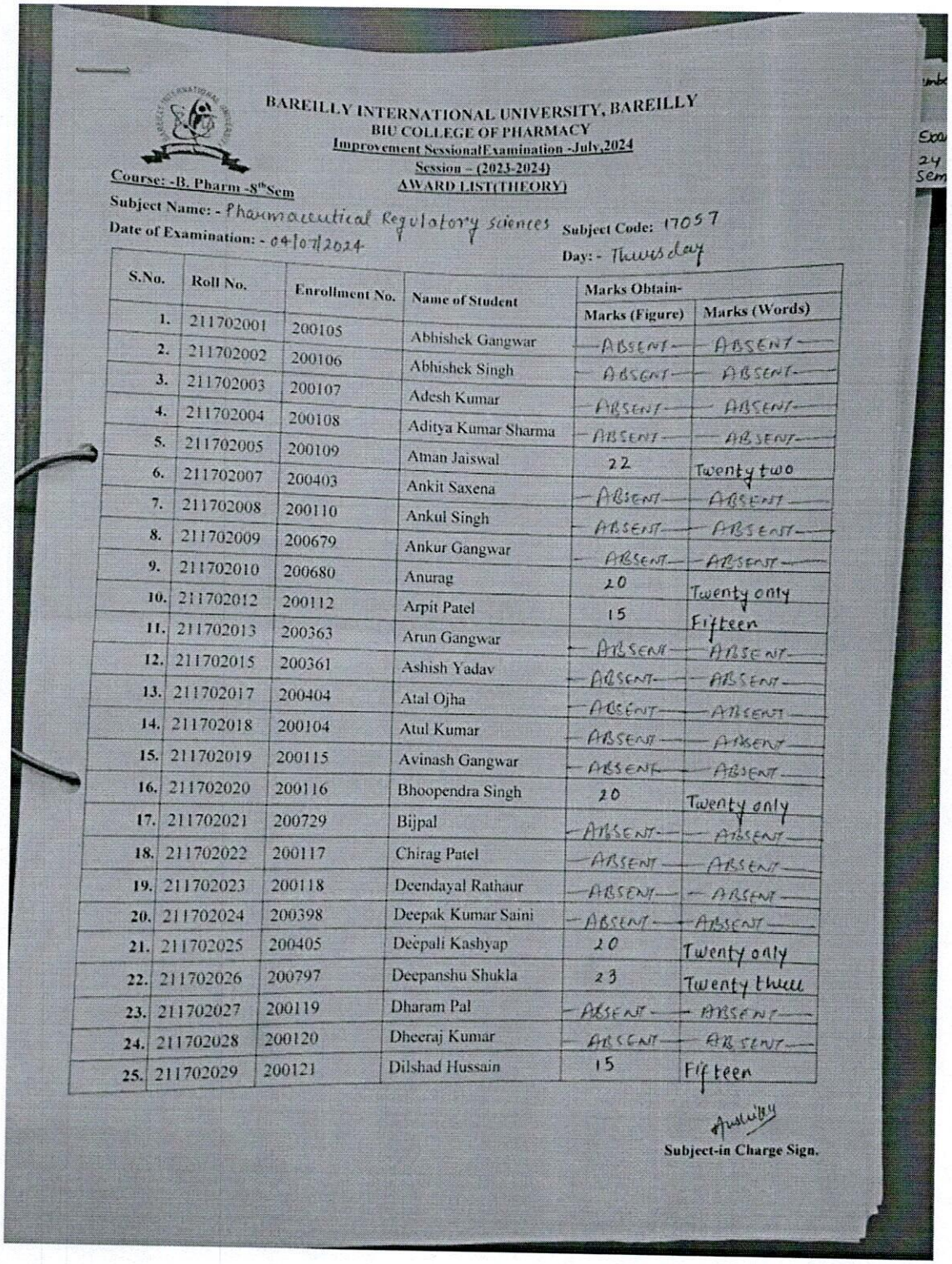
a) Explain NDA filing at the FDA with the help of a flow chart.
b) Explain the constitution and functions of Institutional Review Board.
c) Discuss the various phases of clinical trials.

Section III (Long ans. type Questions)
(Ans. should be approx. 500 to 750 words)

Q3. Attempt any one question **(10X1=10)**

a) Explain the various stages of drug discovery.
b) What is DMF? Explain the contents of DMF.

Improvement Sessional Award List



BAREILLY INTERNATIONAL UNIVERSITY, BAREILLY
BIU COLLEGE OF PHARMACY
Improvement SessionalExamination -July,2024
Session – (2023-2024)
AWARD LIST(THEORY)

Course: -B. Pharm -8th Sem

Subject Name: - Pharmaceutical Regulatory sciences Subject Code: 17057

Date of Examination: - 04/07/2024 Day: - Thursday

S.No.	Roll No.	Enrollment No.	Name of Student	Marks Obtain-	
				Marks (Figure)	Marks (Words)
1.	211702001	200105	Abhishek Gangwar	ABSENT	ABSENT
2.	211702002	200106	Abhishek Singh	ABSENT	ABSENT
3.	211702003	200107	Adesh Kumar	ABSENT	ABSENT
4.	211702004	200108	Aditya Kumar Sharma	ABSENT	ABSENT
5.	211702005	200109	Aman Jaiswal	22	Twenty two
6.	211702007	200403	Ankit Saxena	ABSENT	ABSENT
7.	211702008	200110	Ankul Singh	ABSENT	ABSENT
8.	211702009	200679	Ankur Gangwar	ABSENT	ABSENT
9.	211702010	200680	Anurag	20	Twenty only
10.	211702012	200112	Arpit Patel	15	Fifteen
11.	211702013	200363	Arun Gangwar	ABSENT	ABSENT
12.	211702015	200361	Ashish Yadav	ABSENT	ABSENT
13.	211702017	200404	Atal Ojha	ABSENT	ABSENT
14.	211702018	200104	Atul Kumar	ABSENT	ABSENT
15.	211702019	200115	Avinash Gangwar	ABSENT	ABSENT
16.	211702020	200116	Bhoopendra Singh	20	Twenty only
17.	211702021	200729	Bijpal	ABSENT	ABSENT
18.	211702022	200117	Chirag Patel	ABSENT	ABSENT
19.	211702023	200118	Deendayal Rathaur	ABSENT	ABSENT
20.	211702024	200398	Deepak Kumar Saini	ABSENT	ABSENT
21.	211702025	200405	Deepali Kashyap	20	Twenty only
22.	211702026	200797	Deepanshu Shukla	23	Twenty three
23.	211702027	200119	Dharam Pal	ABSENT	ABSENT
24.	211702028	200120	Dheeraj Kumar	ABSENT	ABSENT
25.	211702029	200121	Dilshad Hussain	15	Fifteen

Subject-in Charge Sign.

BAREILLY INTERNATIONAL UNIVERSITY, BAREILLY

BIU COLLEGE OF PHARMACY

Improvement Sessional Examination -July,2024

Session – (2023-2024)

AWARD LIST(THEORY)

Course: -B. Pharm -8th Sem

Subject Name: - Pharmaceutical Regulatory Sciences **Subject Code:** 17057

Date of Examination: - 04/07/2024 **Day: -** Thursday

S.No.	Roll No.	Enrollment No.	Name of Student	Marks Obtain-	
				Marks (Figure)	Marks (Words)
26.	211702030	200681	Dinesh Kumar	ABSENT	ABSENT
27.	211702031	200399	Divyansh Singh	ABSENT	ABSENT
28.	211702032	200122	Durvesh Kumar	ABSENT	ABSENT
29.	211702033	200123	Fajal Khan	20	Twenty only
30.	211702034	200410	Fiza Bee	21	Twenty one
31.	211702035	200402	Gaurav Shakya	ABSENT	ABSENT
32.	211702036	200364	Gaurav Yadav	ABSENT	ABSENT
33.	211702038	200125	Gunjeet Kumar Singh	20	Twenty only
34.	211702040	200127	Himani	ABSENT	ABSENT
35.	211702041	200128	Himanshu Gangwar	ABSENT	ABSENT
36.	211702043	200130	Kamal Kumar	ABSENT	ABSENT
37.	211702044	200406	Kapil Kumar	ABSENT	ABSENT
38.	211702045	200131	Kaushik Shrivastav	ABSENT	ABSENT
39.	211702046	200730	Keshav	20	Twenty only
40.	211702047	200141	Keshav Yadav	ABSENT	ABSENT
41.	211702048	200409	Kiran Maurya	ABSENT	ABSENT
42.	211702050	200165	Manish Chaudhary	ABSENT	ABSENT
43.	211702053	200137	Mohd Rehan	ABSENT	ABSENT
44.	211702055	200163	Mohd. Tahir Idrishi	ABSENT	ABSENT
45.	211702057	200142	Mukesh Chaudhary	ABSENT	ABSENT
46.	211702058	200812	Narendra Singh	20	Twenty only
47.	211702059	200135	Nitin Sharma	ABSENT	ABSENT
48.	211702060	200148	Pankaj Rathore	21	Twenty one
49.	211702061	200153	Pankaj Yadav	ABSENT	ABSENT

Anshika

Subject-in Charge Sign.

BAREILLY INTERNATIONAL UNIVERSITY, BAREILLY

BIU COLLEGE OF PHARMACY

Improvement Sessional Examination -July,2024

Session – (2023-2024)

AWARD LIST(THEORY)

Course: -B. Pharm -8th Sem

Subject Name: - Pharmaceutical Regulatory Sciences **Subject Code:** 17057

Date of Examination: - 04/07/2024 **Day: -** Thursday

S.No.	Roll No.	Enrollment No.	Name of Student	Marks Obtain-	
				Marks (Figure)	Marks (Words)
50.	211702062	200368	Parakh Kaushik	20	Twenty only
51.	211702063	200160	Piyush Verma	20	Twenty only
52.	211702064	200149	Pragati Srivastava	ABSENT	ABSENT
53.	211702065	200151	Prahlad	ABSENT	ABSENT
54.	211702066	200365	Praveen Kumar	ABSENT	ABSENT
55.	211702068	200146	Rahul Shakya	ABSENT	ABSENT
56.	211702069	200152	Ravindra Gangwar	ABSENT	ABSENT
57.	211702070	200144	Rustam	ABSENT	ABSENT
58.	211702072	200411	Sachin Patel	ABSENT	ABSENT
59.	211702073	200158	Santosh Gangwar	ABSENT	ABSENT
60.	211702076	200166	Satish Yadav	22	Twenty two
61.	211702077	200408	Satya Veer Singh	ABSENT	ABSENT
62.	211702078	200407	Satya Veer	ABSENT	ABSENT
63.	211702079	200367	Saumya Tiwari	ABSENT	ABSENT
64.	211702080	200369	Saurabh Kumar	ABSENT	ABSENT
65.	211702082	200400	Sheetal Gangwar	ABSENT	ABSENT
66.	211702083	200155	Shikhar Sharma	ABSENT	ABSENT
67.	211702084	200147	Shivam Kumar	ABSENT	ABSENT
68.	211702085	200366	Shivam Pal	ABSENT	ABSENT
69.	211702086	200813	Srashti Thakur	ABSENT	ABSENT
70.	211702087	200134	Shubham Shukla	ABSENT	ABSENT
71.	211702088	200156	Sumit Kumar Rathore	ABSENT	ABSENT
72.	211702090	200139	Ujjwal	ABSENT	ABSENT
73.	211702091	200140	Uma Shanker	ABSENT	ABSENT

Subject-in Gharge Sign.

BAREILLY INTERNATIONAL UNIVERSITY, BAREILLY

BIU COLLEGE OF PHARMACY

Improvement Sessional Examination -July,2024

Session – (2023-2024)

AWARD LIST(THEORY)

Course: -B. Pharm -8th Sem

Subject Name: - Pharmaceutical Regulatory sciences **Subject Code:** 17057

Date of Examination: - 04/07/2024 **Day: -** Thursday

S.No.	Roll No.	Enrollment No.	Name of Student	Marks Obtain-	
				Marks(Figure)	Marks (Words)
74.	211702092	200133	Vikas Solanki	ABSENT	ABSENT
75.	211702094	200145	Vishal Gupta	21	Twenty one
76.	221702501	210216	Neetish Kumar Verma	ABSENT	ABSENT
77.	201702034	190188	Rahul Yadav	22	Twenty two
78.	201702008	190164	Amir Ali	ABSENT	ABSENT
79.	201702028	190185	Prabhanshu Pal	20	Twenty only
80.	201702038	190192	Romanchak Sharma	21	Twenty one

Subject-in Charge Sign.

BAREILLY INTERNATIONAL UNIVERSITY BAREILLY
BIU COLLEGE OF PHARMACY
B.PHARM-VIII SEM.
First ,Second &Improvement Sessional Examination (Theory) (2023-24)
Subject Name:- Pharmaceutical Regulatory Science Subject Code:- 17057

S.No.	Roll No.	Enrollment	Students Name	1st Sessional (30)	2nd Sessional (30)	Improvement Sessional(30)	Total	Average(Total/4)=15	TA(10)	Total Marks (25)	Final Marks (25)
1	211702001	200105	Abhishek Gangwar	17	15		32	8	9	17	17
2	211702002	200106	Abhishek Singh	20	20		40	10	10	20	20
3	211702003	200107	Adesh Kumar	26	23		49	12.25	10	22.25	22
4	211702004	200108	Aditya Kumar Sharma	17	16		33	8.25	9	17.25	17
5	211702005	200109	Aman Jaiswal			22	22	5.5	9	14.5	15
6	211702007	200403	Ankit Saxena	22	22		44	11	9	20	20
7	211702008	200110	Ankul Singh	22	23		45	11.25	10	21.25	21
8	211702009	200679	Ankur Gangwar	23	25		48	12	10	22	22
9	211702010	200680	Anurag		19	20	39	9.75	9	18.75	19
10	211702012	200112	Arpit Patel		21	15	37	9.25	9	18.25	18
11	211702013	200363	Arun Gangwar	22	19		41	10.25	10	20.25	20
12	211702015	200361	Ashish Yadav		20		20	5	10	15	15
13	211702017	200404	Atal Ojha	25	24		49	12.25	10	22.25	22
14	211702018	200104	Atul Kumar	23	18		41	10.25	9	19.25	19
15	211702019	200115	Avinash Gangwar	19	15		34	8.5	10	18.5	19
16	211702020	200116	Bhoopendra Singh		15	20	35	8.75	9	17.75	18
17	211702021	200729	Bijpal	18	19		37	9.25	10	19.25	19
18	211702022	200117	Chirag Patel	18	20		38	9.5	9	18.5	19
19	211702023	200118	Deendayal Rathaur	17	17		34	8.5	9	17.5	18
20	211702024	200398	Deepak Kumar Saini	21	18		39	9.75	9	18.75	19
21	211702025	200405	Deepali Kashyap	26		20	46	11.5	10	21.5	22
22	211702026	200797	Deepanshu Shukla		19	23	42	10.5	9	19.5	20
23	211702027	200119	Dharam Pal	25	23		48	12	10	22	22
24	211702028	200120	Dheeraj Kumar		18		18	4.5	10	14.5	15
25	211702029	200121	Dilshad Husain		16	15	31	7.75	9	16.75	17
26	211702030	200681	Dinesh Kumar	17	18		35	8.75	9	17.75	18
27	211702031	200399	Divyansh Singh	20	21		41	10.25	10	20.25	20
28	211702032	200122	Durvesh Kumar	20	20		40	10	9	19	19
29	211702033	200123	Fajal Khan		18	20	38	9.5	9	18.5	19
30	211702034	200410	Fiza Bee		17	21	38	9.5	10	19.5	20
31	211702035	200402	Gaurav Shakya		19		19	4.75	10	14.75	15
32	211702036	200364	Gaurav Yadav		20		20	5	10	15	15
33	211702038	200125	Gunjeet Kumar Singh		17	20	37	9.25	9	18.25	18
34	211702040	200127	Himani	21	22		43	10.75	10	20.75	21
35	211702041	200128	Himanshu Gangwar	18	19		37	9.25	9	18.25	18
36	211702043	200130	Kamal Kumar	16	16		32	8	9	17	17
37	211702044	200406	Kapil Kumar	18	6		24	6	9	15	15
38	211702045	200131	Kaushik Shrivastav	17	17		34	8.5	10	18.5	19
39	211702046	200730	Keshav			20	20	5	10	15	15
40	211702047	200141	Keshav Yadav	19	16		35	8.75	9	17.75	18

41	211702048	200409	Kiran Maurya	16	18		34	**8.5**	**9**	17.5	**18**
42	211702050	200165	Manish Chaudhary	9	22		31	**7.75**	**9**	16.75	**17**
43	211702053	200137	Mohd Rehan	18	21		39	**9.75**	**10**	19.75	**20**
44	211702055	200163	Mohd Tahir Idrishi	15	16		31	**7.75**	**9**	16.75	**17**
45	211702057	200142	Mukesh Chaudhary	20	21		41	**10.25**	**9**	19.25	**19**
46	211702058	200812	Narendra Singh		3	20	23	**5.75**	**9**	14.75	**15**
47	211702059	200135	Nitin Sharma	18	25		43	**10.75**	**10**	20.75	**21**
48	211702060	200148	Pankaj Rathore	2	9	21	30	**7.5**	**9**	16.5	**17**
49	211702061	200153	Pankaj Yadav	18	20		38	**9.5**	**9**	18.5	**19**
50	211702062	200368	Parakh Kaushik			20	20	**5**	**10**	15	**15**
51	211702063	200160	Piyush Verma		21	20	41	**10.25**	**9**	19.25	**19**
52	211702064	200149	Pragati Srivastava	27	25		52	**13**	**9**	22	**22**
53	211702065	200151	Prahlad	24	26		50	**12.5**	**10**	22.5	**23**
54	211702066	200365	Praveen Kumar	18	23		41	**10.25**	**10**	20.25	**20**
55	211702068	200146	Rahul Shakya	17	24		41	**10.25**	**9**	19.25	**19**
56	211702069	200152	Ravindra Gangwar	16	22		38	**9.5**	**10**	19.5	**20**
57	211702070	200144	Rustam	20	21		41	**10.25**	**9**	19.25	**19**
58	211702072	200411	Sachin Patel	28	27		55	**13.75**	**10**	23.75	**24**
59	211702073	200158	Santosh Gangwar	17	17		34	**8.5**	**9**	17.5	**18**
60	211702076	200166	Satish Yadav		3	22	25	**5**	**10**	15	**15**
61	211702077	200408	Satya Veer Singh	16	18		34	**8.5**	**9**	17.5	**18**
62	211702078	200407	Satya Veer	16	19		35	**8.75**	**9**	17.75	**18**
63	211702079	200367	Saumya Tiwari	26	27		53	**13.25**	**10**	23.25	**23**
64	211702080	200369	Saurabh Kumar	17	20		37	**9.25**	**9**	18.25	**18**
65	211702082	200400	Sheetal Gangwar	22	23		45	**11.25**	**9**	20.25	**20**
66	211702083	200155	Shikhar Sharma	20	24		44	**11**	**9**	20	**20**
67	211702084	200147	Shivam Kumar	10	15		25	**6.25**	**9**	15.25	**15**
68	211702085	200366	Shivam Pal	15	19		34	**8.5**	**9**	17.5	**18**
69	211702086	200813	Srashti Thakur	15	18		33	**8.25**	**9**	17.25	**17**
70	211702087	200134	Subham Shukla	20	25		45	**11.25**	**10**	21.25	**21**
71	211702088	200156	Sumit Kumar Rathore	13	10		23	**5.75**	**9**	14.75	**15**
72	211702090	200139	Ujjwal	18	22		40	**10**	**9**	19	**19**
73	211702091	200140	Uma Shanker	18	18		36	**9**	**9**	18	**18**
74	211702092	200133	Vikas Solanki	16	21		37	**9.25**	**9**	18.25	**18**
75	211702094	200145	Vishal Gutpa		20	21	41	**10.25**	**9**	19.25	**19**
76	221702501	210216	Neetish Kumar Verma	20	24		44	**11**	**10**	21	**21**
77	201702034	190188	Rahul Yadav			22	22	**5.5**	**10**	15.5	**16**
78	201702008	190164	Amir Ali						**10**	10	**10**
79	201702028	190185	Prabhanshu Pal			20	20	**5**	**10**	15	**15**
80	201702038	190192	Romanchak Sharma			21	21	**5.25**	**10**	15.25	**15**

Main University Examination
Question Paper
Pharmaceutical Regulatory Science

Paper Code:17057

University Examination –July-August, 2024

Bachelor of Pharmacy (B. Pharma)

8th Semester

Pharmaceutical Regulatory Science

TIME: 3 hours

Maximum marks: 75

Q.1. Very Short questions. 10×2=20 Marks

Note : Attempt all questions.

(a) Define pharmacovigilance.
(b) What is the difference between orange and purple book?
(c) What is the difference between CTD and DMF?
(d) What are the responsibilities of Institutional Review Board?
(e) Enlist obligations of investigator in clinical trials.
(f) Write the name of the regulatory authority of Australia & USA.
(g) What is the importance of informed consent?
(h) Enlist the elements of e-CTD document.
(i) What are different stages in Drug Development Process?
(j) Enlist guidelines under ICH.

Q.2. Short questions. 7×5=35 Marks

Note : Attempt **any seven** of the following questions.

(a) Discuss the importance of safety monitoring in clinical trials.
(b) Describe the regulatory requirements for ANDA approval process.
(c) Describe the purpose and types of IND.
(d) Discuss the need and role of Independent Ethics Committee.
(e) Explain about different routes of regulatory filing through MHA.
(f) Discuss about generic drug development.
(g) Describe the different types of DMF and its importance.
(h) Discuss about the differences between NDA and ANDA data submission.
(i) Discuss the responsibilities of RA department in a pharmaceutical industry.

Q.3. Long questions. 2×10=20 Marks

Note : Attempt **any two** of the following questions.

(a) Explain the different stages of Drug discovery and drug development process.
(b) Explain the different types of common technical documents and their importance in pharmaceutical industry.
(c) Discuss in detail about the different phases of clinical trials and their necessity.