



# **PEOPLE'S UNIVERSITY**

## **CRITERION II**

### **TEACHING-LEARNING AND EVALUATION**

**2.6.1 - The institution has stated learning outcomes (generic and programme specific)/graduate attributes which are integrated into the assessment process and widely publicized through the website and other documents**

**Registrar**  
People's University  
Bhopal (M.P.)

# People's University

## Department of Biotechnology and Microbiology

### PROGRAM OUTCOMES, PROGRAM SPECIFIC OUTCOMES, and COURSE OUTCOMES

#### PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

- To make our students competent in the field of biotechnology, microbiology and its allied areas.
- To inculcate the capability to work as person with strong ethics.
- To equip the students to pursue higher education and research in reputed institutes at national and international level.
- To develop a working knowledge of biotechnology and microbiology product and processes.

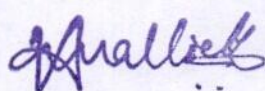
#### Programme Outcome

- Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.
- The field Biotechnology and Microbiology teaches about biological sciences that manipulate living organisms and biological systems to produce products that advance healthcare, medicine, agriculture, food, pharmaceuticals and environment control.

#### Programme Specific Outcome

- Acquire knowledge on the fundamentals of biotechnology and microbiology for sound and solid base which enables them to understand the emerging and advanced concepts in life sciences.
- Acquire knowledge in domain of biotechnology and microbiology enabling their applications in industry and research.
- Empower the students to acquire technological knowhow by connecting disciplinary and interdisciplinary aspects of biotechnology and microbiology
- Recognize the importance of Bioethics, IPR, entrepreneurship, Communication and management skills so as to usher next generation of Indian industrialists
- The various subjects in biotechnology and microbiology syllabus emphasizing distribution, morphology and physiology of microorganisms in addition to skills in aseptic procedures, isolation and identification.
- The course also includes sophomore level material covering immunology, biochemistry, Molecular biology and recombinant DNA technology. Three four hours lecture and eight hours lab per week.

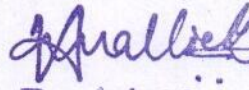
**DEAN**  
ACADEMIC AFFAIRS  
PEOPLE'S UNIVERSITY, BHOPAL (M.P.)

  
**Registrar**  
People's University  
Bhopal (M.P.)

### Programme - B. Sc Biotechnology

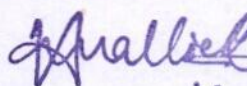
| Name of Course                             | Course Outcomes   |
|--|---|
| Botany I                                   | This course would enable students to identify major categories of lower plants and analyze their classification, diversity and ubiquity and introduce diversity, morphology, physiology and salient feature of lower plants.  |
| Zoology-I                                  | This course gives knowledge about body construction from unicellular to multicellular organisms & its evolution. To understand and appreciate the taxonomic principles and the phylogeny of animals and To comprehend how the arrangement of organ systems add to the complexity of animal body.  |
| Basics of Inorganic and Physical Chemistry | This course presents the basic concepts of inorganic chemistry, organic chemistry, physical chemistry and environmental chemistry. Environmental chemistry topic emphasizes on the importance of preserving environment in its natural form. It also provides an insight into the harmful impacts of human intervention on nature.  |
| Cell biology                               | This course presents the types and structural details of the basic unit by which all the living things are made of (the cell). Goals: To make the student to understand the concept of cell and their activities. This course presents the types and structural details of the basic unit by which all the living things are made of (the cell). Goals: To make the student to understand the concept of cell and their activities and molecular signaling. |
| Botany II                                  | This course will develop understanding about the diversity, identification, classification and economic importance of plants and increase the understanding about the diversity of plants, their classification, structure and growth.  |
| Zoology II                                 | This course will give knowledge about higher animals, its organ system, its evolution and management of animals. It also provides the scope of applied zoology with better understanding and appreciates the classification of animals and their organ system.  |
| Basics of Organic Chemistry                | This course will help to gain insight into the rates of biochemical reactions and factors that affect it. And will also give better understanding the reactions of important classes of organic compounds. It also deals with fundamentals of Organic Chemistry and its functional group.   |
| General Microbiology                       | This course presents the study of Micro organisms. Goals: To make the student to understand Micro organisms and their participation in day today activities. Objectives: On successful completion of the subject the student should have understood the Role of microorganisms in the diversity   |
| Immunology                                 | This course facilitates the students to understand the basics of immunology and become familiar with immunization practices and their importance. It will give knowledge about scope of immunology and understand the types of Immunity and the cell and organs of immune responses and their functions.  |

**DEAN**  
**ACADEMIC AFFAIRS**  
PEOPLE'S UNIVERSITY, BHOPAL (M.P.)

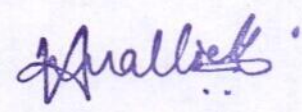
  
**Registrar**  
People's University,  
Bhopal (M.P.)

|   |  |
|---|--|
| Fundamentals of Biochemistry            | This course presents the chemical reactions or metabolic functions in the living system and their regulations. The student will be versed of cellular processes and function that takes place with the role of these biomolecules in normal and diseased state of an individual. the student should have understood basic biomolecules, viz protein fats, enzymes and their relevance to biological molecular stabilization.                   |
| Enzymology                              | This course details with the catalysis by the enzymes. The student will also be able to understand the subtle and vital role of these enzyme in normal and disease condition. The purpose of the course is to make students understand the biological catalyst that operates and catalyzes the molecular and chemical reaction in the body which help to carry out daily energy yielding, inflammation and wound healing processes in the body |
| Bioenergetics and Metabolism            | This course will help to understand the characteristic of Enzymes, enzyme inhibition and kinetics and Know the basics of carbohydrate metabolism, significance of glycolysis and ETC, untreated diabetes, Lipid metabolism and production of ketone bodies, Protein metabolism, role of urea cycle and errors of protein metabolism and biosynthesis and degradation of purine and pyrimidine  |
| Molecular Biology                       | This course presents the genetics at molecular level and the student should understand the molecular aspects of Molecular biology. The learners will develop attributes to the concept of gene and understands DNA replication and regulation in prokaryotes and eukaryotes  |
| Genetics                                | This course is giving a thorough knowledge in classical genetics, which is the base of all genetica studies –basic as well as applied science including genetic engineering and gene therapy. This will prepare the students to pursue higher studies in genetics and molecular biology  |
| Recombinant DNA Technology              | This course presents the mechanism of gene manipulation Goals: To make the student to understood the concept of gene manipulation and gene transfer technologies Objectives: On successful completion of the subject, the student should have understood: Manipulation of genes, Transfer techniques, Expression systems and methods of selection.   |
| Environmental Biotechnology             | This course presents the study and the management of the Environment. To make the student to understood Ecology and Conservation of the Environment. The student should have understood Ecosystem, energy flow and Uses and values of Biodiversity and will develop the understanding of bioremediation, waste management, bioleaching, conventional and modern fuels.   |
| Bio-analytical techniques               | Enable the student to get sufficient knowledge in principles and applications of bio instruments. The students will be able to understand the fundamentals of biophysics and will have knowledge of the general instrumental techniques used in biotechnology.   |
| Computer Application and Bioinformatics | This course is to develop the understanding of basics of Application of Bioinformatics. The students will develop basics knowledge of Bioinformatics and will attain knowledge of biological data search and processing.   |
| Industrial                              | This course will help students to develop the understanding of industrial  |

DEAN  
ACADEMIC AFFAIRS  
PEOPLE'S UNIVERSITY, BHOPAL (M.P.)

  
Registrar  
People's University  
Bhopal (M.P.)

|                       |  |
|-----------------------|--|
| Biotechnology         | aspects of biotechnology. The students will be introduced to the industrial application of Food Biotechnology and Bioprocess technology through this course and will also understand commercial importance of biotechnology through its industrial aspects.  |
| Medical Biotechnology | This course will develop the learner to have knowledge about genetic disorders, Therapeutic approaches for human diseases, Genetic Counseling and Tissue Engineering, Pharmaceutical Biotechnology, Drug Delivery methods and Methods for diagnosis of human diseases. The course has been designed to make students aware of role of biotechnology in the field of medical science. The course will provide basic knowledge of genetic diseases, diagnosis and Therapies. |
| Animal Biotechnology  | This course presents the application of Animal in Biotechnology. It will make the student to understood usage of animal products and will become familiar with animal tissue culture methods thus enabling their knowledge in animal biotechnology   |
| Plant Biotechnology   | This course presents the application of Plants in Biotechnology. students to understand the basics of classical plant Biotechnology and will become familiar with plant tissue culture methods thus enabling their knowledge in plant biotechnology  |



Registrar  
People's University  
Bhopal (M.P.)

DEAN  
ACADEMIC AFFAIRS  
PEOPLE'S UNIVERSITY, BHOPAL (M.P.)

### Programme - M. Sc Biotechnology

| Name of Course  | Course Outcomes  |
|---|--|
| Cell biology  | This course is to sensitize the students to the fact that as we go down the scale of magnitude from cells to organelles to molecules, the understanding of various biological processes becomes deeper and inclusive which is the fundamental aspects in biological phenomenon   |
| Immunology  | This course presents the basic defense mechanism of animals Goals: To make the student to understand the concept immunology Objectives: On successful completion of the subject the student should have understood: Immunity, Antigen, Antibody, Cells of immune system and their function and regulations   |
| Microbiology  | This course enable to identify major categories of microorganisms and analyze their classification, diversity, and ubiquity, Identify and demonstrate structural, physiological, genetic similarities and differences of major categories of microorganisms, Identify and demonstrate how to control microbial growth and Demonstrate and evaluate interactions between microbes, hosts and environment.   |
| Microbial Physiology                                      | This course is to give an insight of microbial physiology. The students should be able to discuss microbial taxonomy, describe microbial nutrition, growth and control, describe metabolic pathways and discuss microbial pathogenes   |
| Molecular Biology   | This course sensitizes the students to the fact that as we go down the scale of magnitude of molecules, to understanding of various biological processes becomes deeper and inclusive. Student should be equipped to understand fundamental aspects in biological and properties of elements, their role in formation of biomolecules and in chemical reactions within living organisms. Gain insights into metabolic engineering for the production of useful biomolecules. |
| Genetic Engineering                                       | This course presents the genetics at molecular level Goals: On successful completion of the subject the student should have understood the molecular aspects of genetics. The students should be endowed with strong the theoretical knowledge of this technology. In conjunction with the practical in molecular biology & genetic engineering, the students should be able to take up biological research as well as placement in the relevant biotech industry.           |
| Biomolecules and Metabolism                               | This course presents the chemical reactions or metabolic functions in the living system and their regulations. To make the student to understand the concept of biochemical regulations Objectives: On successful completion of the subject the student should have understood: Basic Structure and metabolism of Biomolecules   |
| Bioinstrumentation<br>Biostatistics and<br>Bioinformatics | This course presents the principles and applications of Biotechnology explaining the biomolecules and applications of biophysical methods. Understanding the principles of Electrophoresis, Spectrophotometry and  |

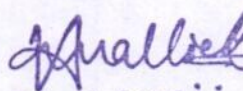
*[Handwritten Signature]*

Registrar  
People's University  
Bhopal (M.P.)

DEAN  
ACADEMIC AFFAIRS  
PEOPLE'S UNIVERSITY, BHOPAL (M.P.)

|   |  |
|---|--|
|   | chromatography and their applications in biological investigations/experiments. Exposure to the concepts of genomics, proteomics, computational biology, data management and statistics.   |
| Genomics and Proteomics                               | This paper presents the basics of: mapping, Genome sequencing, Genome sequence assembly: Base calling and assembly programs, Genome annotation: Gene ontology, Automated genome annotation, Annotation of hypothetical proteins and Genome economy. Comparative genomics: Whole genome alignment, Finding a minimal genome, Lateral gene transfer, Within-genome approach and Gene order and Gene.   |
| Bioprocess technology and Nanotechnology              | This paper presents the basics of fermentation technology, media components as applied to lab scale, pilot scale and industrial scale upstream and down stream processing. Goals: This paper is introduced to acquire requisite skills for the design and development of bioreactors, production optimization, and preparation of sterile base materials for downstream processing. Objectives: On successful completion of the course the students should have understood the basics of fermentation technology and learnt the concept of screening, optimization and maintenance of cultures.  |
| Animal Biotechnology                                  | This course presents the application of animal Biotechnology Goals: To make the student to understand usage of Animal products and exploitation of them in Biotechnology. Objectives: On successful completion of the subject, culture, , Animal tissue culture, Animal products, production & improvement of them.  |
| Plant Biotechnology                                   | This course presents the application of Plants in Biotechnology Goals: To make the student to understand usage of Plant products and exploitation of them in Biotechnology. Objectives: On successful completion of the subject, the student should have understood: Crop development, Callus culture, Biotechnological applications of plants   |
| Intellectual Property Rights, Biosafety and Bioethics | This course enable to understand the rationale for and against IPR and especially patents; Understand why India has adopted an IPR Policy and be familiar with broad outline of patent regulations; Understand different types of intellectual property rights in general and protection of products derived from biotechnology research and issues related to application and obtaining patents; Gain knowledge of biosafety and risk assessment of products derived from recombinant DNA research and environmental release of genetically modified organisms, national and international regulations; Understand ethical aspects related to biological, biomedical, health care and biotechnology research. |
| Clinical and Translational Research                   | This course construct an overview and examples of how basic science and clinical observations lead to translational research. To motivate the next generation of investigators who will lead cutting edge clinical research into the future. To illustrate the students about the safety, risk assessment and adverse reactions to drug in order to develop problem solving capabilities. Having a clear understanding of the subject related concepts and of contemporary issues and will have interest in lifelong learning  |

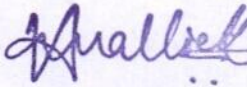
DEAN  
ACADEMIC AFFAIRS  
PEOPLE'S UNIVERSITY, BHOPAL (M.P.)

  
Registrar  
People's University  
Bhopal (M.P.)

### Programme - M.Sc Microbiology

| Name of Course                       | Course Outcomes  |
|--------------------------------------|--|
| Immunology                           | This course presents the basic defense mechanism of animals Goals: To make the student to understand the concept immunology Objectives: On successful completion of the subject the student should have understood: Immunity, Antigen, Antibody, Cells of immune system and their function and regulations   |
| General Microbiology                 | This course enable to identify major categories of microorganisms and analyze their classification, diversity, and ubiquity, Identify and demonstrate structural, physiological, genetic similarities and differences of major categories of microorganisms, Identify and demonstrate how to control microbial growth and Demonstrate and evaluate interactions between microbes, hosts and environment.   |
| Bio-analytical techniques            | This course presents the principles and applications of Biotechnology explaining the biomolecules and applications of biophysical methods. Understanding the principles of Electrophoresis, Spectrophotometry and chromatography and their applications in biological investigations/experiments.  |
| Biochemistry and Metabolic Disorders | This course presents the chemical reactions or metabolic functions in the living system and their regulations. To make the student to understand the concept of biochemical regulations. On successful completion of the subject the student should have understood basic Structure and metabolic disorders  |
| Cell biology                         | This course is to sensitize the students to the fact that as we go down the scale of magnitude from cells to organelles to molecules, the understanding of various biological processes becomes deeper and inclusive which is the fundamental aspects in biological phenomenon   |
| Genetic Engineering                  | This course presents the genetics at molecular level Goals: On successful completion of the subject the student should have understood the molecular aspects of genetics. The students should be endowed with strong the theoretical knowledge of this technology. In conjunction with the practical in molecular biology & genetic engineering, the students should be able to take up biological research as well as placement in the relevant biotech industry            |
| Molecular Biology                    | This course sensitizes the students to the fact that as we go down the scale of magnitude of molecules, to understanding of various biological processes becomes deeper and inclusive. Student should be equipped to understand fundamental aspects in biological and properties of elements, their role in formation of biomolecules and in chemical reactions within living organisms. Gain insights into metabolic engineering for the production of useful biomolecules. |
| Biostatistics and Bioinformatics     | This course will provide a understanding the principles of computational biology and biostatistics and their applications in biological  |

DEAN  
ACADEMIC AFFAIRS  
PEOPLE'S UNIVERSITY, BHOPAL (M.P.)

  
Registrar  
People's University  
Bhopal (M.P.)



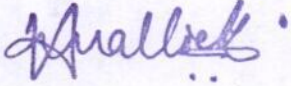
|   |  |
|---|--|
|   | investigations/experiments. Exposure to the concepts of genomics, proteomics, computational biology, data management gain knowledge of biological databases, analysis of biological data and statistical tools for data analysis.  |
| Microbial Physiology                                  | This course is to give an insight of microbial physiology. The students should be able to discuss microbial taxonomy, describe microbial nutrition, growth and control, describe metabolic pathways and discuss microbial pathogens  |
| Environmental and Agriculture Microbiology            | This course will have an overview of the till date developments in the field of environmental diversity, adaptations, agriculture microbiology and biotechnological applications of microbes of extreme environment. Understands the role of microbes in bioremediation of environmental pollutants like petroleum hydrocarbons, pesticides, plastic and electronic waste; also understands utility of microbes in mineral and oil recovery.   |
| Medical Microbiology                                  | This course will have become acquainted with fungal pathogens and different kinds of infections, laboratory diagnosis, pathogenic bacteria , viral diseases, protozoans diseases and their classification, diseases, diagnosis.  |
| Food and Dairy Microbiology                           | This course will have gained insight on industrially important microbes, recent developments in food and dairy processes and various optimization strategies. Comprehend the interactions between microorganisms and the food environment, and factors influencing their growth and survival. Understand the significance and activities of microorganisms in food.  |
| Industrial Microbiology and Bioprocess                | This paper presents the basics of fermentation technology, media components as applied to lab scale, pilot scale and industrial scale upstream and down stream processing. Goals: This paper is introduced to acquire requisite skills for the design and development of bioreactors, production optimization, and preparation of sterile base materials for downstream processing. Objectives: On successful completion of the course the students should have understood the basics of fermentation technology and learnt the concept of screening, optimization and maintenance of cultures.  |
| Intellectual Property Rights, Biosafety and Bioethics | This course enable to understand the rationale for and against IPR and especially patents; Understand why India has adopted an IPR Policy and be familiar with broad outline of patent regulations; Understand different types of intellectual property rights in general and protection of products derived from biotechnology research and issues related to application and obtaining patents; Gain knowledge of biosafety and risk assessment of products derived from recombinant DNA research and environmental release of genetically modified organisms, national and international regulations; Understand ethical aspects related to biological, biomedical, health care and biotechnology research. |
| Clinical and Translational Research                   | This course construct an overview and examples of how basic science and clinical observations lead to translational research. To motivate the next generation of investigators who will lead cutting edge clinical research into the future. To illustrate the students about the safety, risk assessment and  |

DEAN  
ACADEMIC AFFAIRS  
PEOPLE'S UNIVERSITY, BHOPAL (M.P.)

*Shalika*  
Registrar  
People's University  
Bhopal (M.P.)

|  |   |
|--|---|
|  | adverse reactions to drug in order to develop problem solving capabilities.<br>Having a clear understanding of the subject related concepts and of<br>contemporary issues and will have interest in lifelong learning |
|--|---|

DEAN  
ACADEMIC AFFAIRS  
PEOPLE'S UNIVERSITY, BHOPAL (M.P.)

  
Registrar  
People's University,  
Bhopal (M.P.)

# People's College of Nursing & Research Centre

## 2.6.1 Attainment of Program Outcomes, Program Specific Outcomes And Course Outcomes Are Evaluated By The Institution

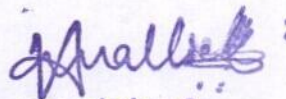
The program outcome of the university consists in moulding students and incorporating following graduate attributes which are knowledge, research analysis, skill, attitude, communication skill, ethics, team work and competent to contribute to the welfare of the society. These programs are designed by the Board of Studies (BOS) and Dean faculty of studies (FOD) after analysing various feedbacks obtained from stake holders.

### 2.6.1: Program Outcomes, Program Specific Outcomes and Course Outcomes

#### PCN&RC

- Response: The Program outcomes, Program specific outcomes, Course Outcomes & subject outcomes are formulated to make students competent with respect to all domains of learning (Cognitive, Affective, and Psychomotor domains). Their assessment is done in formative domain at college level and summative at university level. Formative assessment methods include internal examinations, preliminary examinations which consisting written (MCQs, SAQs, & LAQs), Viva-voce and practical examinations. The Course & subjects Outcomes are designed as per the guidelines of respective Statutory Councils in respect of Nursing.
- Before commencement of academic year, faculty meetings are conducted by Institutional head and decisions are taken on the mode of teaching-learning in perspective of POs & COs.
- Induction and orientation programmes are conducted for the newly enrolled students at beginning of each academic session.

**DEAN**  
**ACADEMIC AFFAIRS**  
PEOPLE'S UNIVERSITY

  
**Registrar**  
People's University  
Bhopal (M.P.)

DATE-08/12/21

➤ Metric 2.6.1

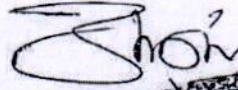
The Institution has stated learning outcomes /graduate attributes as per the provisions of Regulatory bodies which are integrated into the assessment process and widely publicized through the website and other documents

Provide details of the stated learning outcomes for each programme / course as stipulated by the appropriate Regulatory body and the methods followed by the Institution for assessment of the same within 500 words.

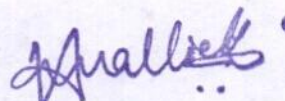
**Response:** Hence the Regulatory bodies hadn't given any outcomes, the Institutional IQAC had designed the outcomes and is circulated. Learning outcomes are implemented via Curriculum design by Subject Experts for the Subjective class.

- Evaluation Methods-
- Continuous monitoring of Student during Lecture hours, Clinical Postings, Community Visits etc.
- Class tests, Internal Assessment, Seminars, Viva, are various Continuous ongoing methods of measuring the attainment of objectives.
- Feedback's from various sectors are done and reviewed during the course time that updates the progress in achieving the specific outcome.
- Annual university exams are a means of outcome measure.
- Feedback's are also taken from Alumni, Health Industries , where Ex students are posted, Stakeholders etc that provide the status on ultimate Program Outcome.



  
PRINCIPAL  
People's College of Paramedical Sciences & Research Centre  
Bhopal

DEAN  
ACADEMIC AFFAIRS  
PEOPLE'S UNIVERSITY, BHOPAL (M.P.)

  
Registrar  
People's University  
Bhopal (M.P.)

**PROGRAM SPECIFIC OUTCOMES:****BBA**

- PSO1-Understand the nature and basic concepts of management.
- PSO2-Understand the applications of accounts and business mathematics.
- PSO3-Understand the behavior of Indian and World economy, financial and money markets and perform cost-benefit analysis for making investment decisions

**B.COM**

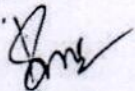
- PSO1-Understand the applications of accounts and business mathematics.
- PSO2-Understand the behavior of financial and money markets and perform cost-benefit analysis for making investment decisions.
- PSO3-Understand and recognize the different value systems including your own

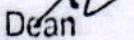
**MBA**

- PSO1-Understand and recognize the different value systems including your own.
- PSO2-Understand the applications of principles of management, marketing, finance, human resource management.
- PSO3-Acquire the ability to engage in independent and lifelong learning in the fast changing world.

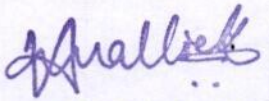
**MBA (HA)**

- PSO1-To inculcate appropriate professional and ethical values.
- PSO2-To understand and communicate effectively with patients
- PSO3-Usage of Integrity, Honesty and trust worthiness.

  
 Chairman  
 Board of Studies in  
 Management & Hotel Management  
 People's University, Bhopal

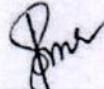
  
 Dean  
 Faculty of Management  
 & Hotel Management

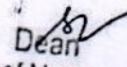
**DEAN**  
**ACADEMIC AFFAIRS**  
 PEOPLE'S UNIVERSITY, BHOPAL (M.P.)

  
 Registrar  
 People's University,  
 Bhopal (M.P.)

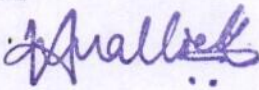
2.6.1 PEOPLE'S INSTITUTE OF MANAGEMENT & RESEARCH, PROGRAM OUTCOMES: MANAGEMENT PROGRAM

|      |                                      |   |
|------|--------------------------------------|---|
| PO1  | Management Knowledge                 | Apply the knowledge of principles of management, Accounts and Human Resource Management to the solution of complex corporate world. Demonstrate knowledge and understanding of the project management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments. |
| PO2  | Problem analysis                     | Identify, formulate, research literature, and analyze complex management problems reaching substantiated conclusions using case studies.  |
| PO3  | Case Studies                         | Develop and study the case studies related to real life management practices.   |
| PO4  | Modern Management Methods            | Create and integrate new solutions and adopt new methods of management practices with an understanding of the limitations   |
| PO5  | The manager and society:             | Create and harmonize the society, the CSR activities as per the government of Indian laws of CSR.   |
| PO6  | Environment and sustainability       | Understand the impact of the production and products and packaging on society and environment for sustainable development.  |
| PO7  | Ethics                               | Apply ethical principles and commit to professional ethics and responsibilities and norms of the management practice  |
| PO8  | Individual and team work             | Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.   |
| PO9  | Communication                        | Communicate effectively with teams, leaders as well as societies such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.   |
| PO10 | Life-long learning                   | Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in change management.  |
| PO11 | Critical Thinking                    | Develop critical thinking skills and apply them to complex problems.  |
| PO12 | Social Interaction                   | Elicit views of others, mediate disagreements and help reach conclusions in group settings.   |
| PO13 | Effective Citizenship                | Develop empathy and sensitivity towards others, the ability to act with an informed awareness of issues and participate in civic life through volunteering contexts and sustainable development.  |
| PO14 | Self-directed and Life-long Learning | Acquire the ability to engage in independent and life-long learning in the broadest context of socio-technological changes  |

  
 Chairman  
 Board of Studies in  
 Management & Hotel Management  
 People's University, Bhopal

  
 Dean  
 Faculty of Management  
 & Hotel Management

**DEAN**  
**ACADEMIC AFFAIRS**  
 PEOPLE'S UNIVERSITY BHOPAL (M.P.)

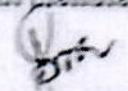
  
 Registrar  
 People's University  
 Bhopal (M.P.)

## Course Specific Outcomes

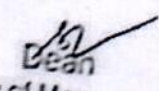
PG Courses

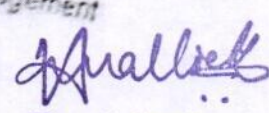
**MBA (Master of Business Administration (Dual Specialization))**

1. **MANAGERIAL ECONOMICS:** Managerial Economics presents the principles of economics, demand analysis, market structure and macro environment and its application in the decision-making. It enables the students to learn the basic principles of economics and its application in the decision making in the business.
2. **ACCOUNTING AND FINANCE FOR MANAGERS:** The basic purpose of this course is to develop an insight of postulates principles, and techniques of accounting and utilization of financial and accounting information for planning decision-making and control.
3. **INTERNATIONAL BUSINESS ENVIRONMENT:** The objective of this course is to enhance students' knowledge and understanding of international business environment and expose them to concepts and practices of international trade.
4. **QUANTITATIVE TECHNIQUES:** The objective of the course is to make the students familiar with some basic statistical and linear programming techniques. The focus, however, is in their applications in business decision making.
5. **BUSINESS COMMUNICATION:** To train students to enhance their skills in written as well as oral communication with necessary principles and techniques of business communication.
6. **PRODUCTION & OPERATIONS MANAGEMENT:** The Course is designed to acquaint the students with decision making in : Planning, scheduling and control of Production and Operation functions in both manufacturing and services, Productivity improvement in operations through layout engineering and quality management etc. effective and efficient flow, replenishment and control of materials with reference to both manufacturing and services organizations.

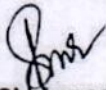
  
Chairman  
Board of Studies in  
Management & Hotel Management  
People's University, Bhopal

**DEAN**  
**ACADEMIC AFFAIRS**  
PEOPLE'S UNIVERSITY, BHOPAL (M.P.)

  
Dean  
Faculty of Management  
& Hotel Management

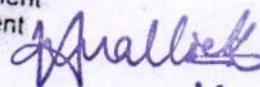
  
Registrar  
People's University  
Bhopal (M.P.)

7. **HUMAN RESOURCE MANAGEMENT:** The objective of the course is to equip students with various human resource management concepts and current practices in managing human resources in knowledge based environment.
8. **MARKETING MANAGEMENT:** The objective of the course is to expose students to various concepts of marketing, marketing mix and the analysis of the market, which enable the students to learn the basics of marketing, process, product mix, marketing channels and product promotion.
9. **ETHICS, CSR & CORPORATE GOVERNANCE:** The objective of the course is to highlight the importance of values and ethics in business and make students aware of the concept of CSR so as to imbibe these in them and prepare them to be ethical managers.
10. **OPERATIONS RESEARCH:** The objective of this course is to develop an understanding of basic operations research techniques and their role in managerial decisions.
11. **FINANCIAL MANAGEMENT:** The objective of this course is to discuss the theory of finance that provides the framework for investment & financing decisions, expound several analytical methods used to cope up with varied problems in financial management and present information about the institutions and environment relevant to corporate finance.
12. **ORGANISATIONAL BEHAVIOUR:** The objective of the course is to understand individual and group behavior in organizations and other organizational concepts to achieve organizational effectiveness
13. **RESEARCH METHODOLOGY:** This course enables the students to learn the importance of research, various methods of analysis of data, and its applications in business management.
14. **PROJECT MANAGEMENT:** To familiarize the students with the basic project management framework as well as the preparation of a basic project plan.
15. **BUSINESS POLICY & STRATEGIC MANAGEMENT:** The objective of the course is to expose students to the process of strategic decision-making and environmental scanning to enable them to formulate strategic business

  
Chairman  
Board of Studies in  
Management & Hotel Management  
People's University, Bhopal

**DEAN**  
**ACADEMIC AFFAIRS**  
PEOPLE'S UNIVERSITY, BHOPAL (M.P.)

  
Dean  
Faculty of Management  
& Hotel Management

  
**Registrar**  
People's University,  
Bhopal (M.P.)



plans.

16. **Decision Support Systems and Management Information System:** This paper aims to orient pupil to the realities of rural India its economic strengths, weaknesses, opportunities, and threats in the changing global context.

17. **BUSINESS LEGISLATION:** This course is designed to assist the students in understanding basic laws affecting the operations of business enterprises.

18. **PRINCIPLES AND PRACTICES OF MANAGEMENT:** To familiarize students with comprehensive contemporary Management Principles and Practices.

#### MBA (Hospital Administration)

1. **HEALTH CARE MANAGEMENT AND HOSPITAL ENVIRONMENT:** To make the student to understand Health Care Sector and Hospital set up in a larger perspective with an emphasis on the systems

2. **HUMAN BIOLOGY AND MEDICAL TERMINOLOGY:** The student will get a familiarity with medical jargon and human body system so that he can effective member of the operational team.

3. **HEALTH CARE ECONOMICS:** The Primary aim of this subject is to provide a clear, concise introduction to micro and macroeconomic concepts in general and economics as applied to hospital and health care sector.

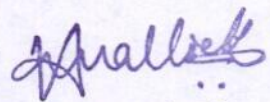
4. **PRINCIPLES AND PRACTICES OF MANAGEMENT:** To familiarize students with comprehensive contemporary Management Principles and Practices.

5. **BUSINESS COMMUNICATION:** To understand the importance of business communications and its role in organizations.

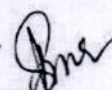
  
Chairman  
Board of Studies in  
Management & Hotel Management  
People's University, Bhopal

  
Dean  
Faculty of Management  
& Hotel Management

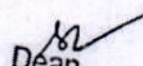
DEAN  
ACADEMIC AFFAIRS  
PEOPLE'S UNIVERSITY, BHOPAL (M.P.)

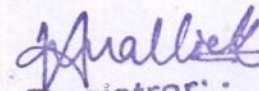
  
Registrar  
People's University  
Bhopal (M.P.)

6. **ACCOUNTING FOR DECISION MAKING:** The basic purpose of this course is to develop an insight of postulates principles, and techniques of accounting and utilisation of accounting information for decision-making
7. **HUMAN RESOURCE MANAGEMENT:** The objective of this paper is to teach the student about the Human Resource function relating to the organization of HR Department, recruitment, training and development and industrial relations.
8. **HOSPITAL SERVICES MARKETING:** The objective of this course is to enhance the marketing skills of the student with special reference to Hospital Services marketing.
9. **Quantitative Techniques & Bio Statistics:** To make the student to understand the concepts in biostatistics and to apply the techniques in decision-making.
10. **PATIENT BEHAVIOR AND CARE:** The objective is to make the student to understand the psycho social aspects of the patient and resulting behavior in a stressful condition.
11. **FINANCIAL MANAGEMENT:** The objective of this paper is to impart the skills relating to the organization of the finance function in terms of fund mobilization and deployment and to equip the students with basic principles of Financial Management and Techniques.
12. **Health Administration:** The objective of the course is to enable students to have a good understanding of Health Administration.
13. **HOSPITAL PLANNING AND SERVICES:** The Objective of this paper is to teach the student the skills of hospital planning including clinical and radiological service planning.
14. **PROJECT MANAGEMENT:** To familiarize the students with the basic project management framework as well as the preparation of a basic project plan.
15. **HOSPITAL ADMINISTRATION :** To give an idea about hospital and its role, peculiarities and factors influencing hospital care and role of hospital administrator.

  
Chairman  
Board of Studies In  
Management & Hotel Management  
People's University, Bhopal

DEAN  
ACADEMIC AFFAIRS  
PEOPLE'S UNIVERSITY, BHOPAL (M.P.)

  
Dean  
Faculty of Management  
& Hotel Management

  
Registrar  
People's University  
Bhopal (M.P.)

16. **OPERATIONS RESEARCH:** To make the students familiar with principles and techniques of Operations Research and their applications in decision-making.

17. **BUSINESS POLICY & STRATEGIC MANAGEMENT:** The objective of the course is to expose students to the process of strategic decision-making and environmental scanning to enable them to formulate strategic business plans.

18. **HOSPITAL OPERATIONS MANAGEMENT & HEALTH INSURANCE:** To familiarize the student with hospital operational activities and the process of purchase and inventory management in a health care establishment, apart from productivity aspects.


19. **HOSPITAL MANAGEMENT CONTROL SYSTEMS:** The objective of this paper is to acquaint the student with the systems of management control and performance evaluation in Hospitals.

20. **MANAGEMENT INFORMATION SYSTEMS IN HOSPITALS:** To make the student to understand MIS as a managerial decision making tool and to know the sources and compiling of MIS.

21. **LEGAL AND ETHICAL ISSUES FOR HOSPITALS:** The Hospital, being a part of the larger socio political set up, the student will be exposed to the legal and ethical issues pertaining to the Hospitals.

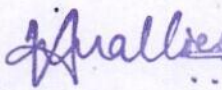
22. **RISK AND DISASTER MANAGEMENT:** To equip the students to identify the areas of safety and risk, and managing the same and to introduce them to disaster management.

23. **HOSPITALS AND PHARMACEUTICAL MANAGEMENT:** To familiarize the students with drug development process and Pharmacy and to familiarize them with pharmaceutical management in health care.

  
Chairman  
Board of Studies In  
Management & Hotel Management  
People's University, Bhopal

  
Dean  
Faculty of Management  
& Hotel Management

**DEAN**  
**ACADEMIC AFFAIRS**  
PEOPLE'S UNIVERSITY, BHOPAL (M.P.)

  
Registrar  
People's University  
Bhopal (M.P.)

**U.G. Courses**

**Int.MBA (Int. Master of Business Administration (BBA3years + MBA Dual Specialization) 2 years)**

**BBA, Integrated MBA, B.Com (A&F)**

**Semester: 1**

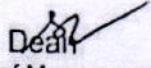
1. **ENGLISH LANGUAGE:** The objective of this course is to improve the competence of the students in basic language skills and to acquaint the students with the working knowledge of English Language.
2. **INTRODUCTION TO COMPUTERS:** The objective of this paper is to impart the fundamental skills of using Computers in Management.
3. **ACCOUNTANCY:** The objective of this course is to familiarize the students with basic concepts and methods in accounting as a practical subject in Business Management.
4. **ECONOMICS:** The objective of this paper is to familiarize the students with the theoretical concepts in economics.
5. **Organizational Behavior:** The objective of the course is to understand individual and group behavior in organizations in other Organizational concepts to achieve organizational effectiveness.

**BBA, Integrated MBA, B. Com (A&F)**

**Semester: 2**

6. **ENVIRONMENT & DISASTER MANAGEMENT:** The objectives of this paper are to make the students aware of Disasters, Disaster Prevention and Risk Reduction and to develop in them an ability to respond to their surroundings with due sensitivity.
7. **BUSINESS COMMUNICATION:** To educate the students in the skills of communication to help them to interact with the society effectively in their career.
8. **Business Mathematics:** The objective of the course is to help the student in understanding the various statistical techniques useful in business studies.

  
Chairman  
Board of Studies in  
Management & Hotel Management  
People's University, Bhopal

  
Dean  
Faculty of Management  
& Hotel Management

  
Registrar  
People's University  
Bhopal (M.P.)

**DEAN**  
**ACADEMIC AFFAIRS**  
PEOPLE'S UNIVERSITY, BHOPAL (M.P.)

9. **Principles of Management:** To familiarize students with comprehensive contemporary management Principles of management.

10. **Business Economics:** The objective of this paper is to familiarize the students with the theoretical concepts in economics.

**BBA, Integrated MBA, B. Com (A&F)**

Semester: 3

11. **ENTREPRENEURSHIP DEVELOPMENT:** The objective of this course is to equip students with basic skills in starting their own enterprises.

12. **Indian Culture, Ethics & Values:** The objective of this course is to equip students with basic knowledge of Indian culture, ethics, and values.

13. **BUSINESS ENVIRONMENT:** The objective of the course is to make the student familiar with external environment, which affects business activities.

14. **FINANCIAL MANAGEMENT:** The objective of this paper is to familiarize the student with various tools and techniques in financial decision-making and control.

15. **MARKETING MANAGEMENT:** The objective of this paper is to familiarize the students with the modern marketing concepts, tools, and techniques to develop their skills required for the performance of marketing function

16. **CORPORATE ACCOUNTING:** The objective of this course is to acquaint students with basics of corporate accounting.

17. **INCOME TAX LAW & PRACTICE-I:** The objective of this course is to equip students with the basic knowledge of Income Tax

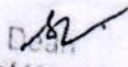
**BBA, Integrated MBA, B.Com (A&F)**

Semester: 4

18. **SOFT SKILLS:** To inculcate good manners and etiquettes and to make the students more flexible and adoptable to change before entering the Corporate World.

19. **Research Methodology:** The objective of this paper is to familiarize

  
Chairman  
Board of Studies In  
Management & Hotel Management  
People's University, Bhopal

  
Registrar  
Faculty of Management  
& Hotel Management

  
Registrar  
People's University  
Bhopal (M.P.)

**DEAN**  
ACADEMIC AFFAIRS  
PEOPLE'S UNIVERSITY, BHOPAL (M.P.)

the student with the basic concepts of research methodology for applications in business.

20. **Cost Accounting:** The objective of this paper is to familiarize the student with basics of cost accounting.

**BBA, Integrated MBA**

Semester: 4

21. **BUSINESS POLICY:** To familiarize the students with methods & techniques of Business Policy & strategic management.

22. **PERSONNEL MANAGEMENT:** The objective of this paper is to familiarize the student with basic concepts and dimensions of personnel management with reference to emerging Indian context.

**Bachelor of Commerce**

Semester: 4

23. **Income Tax Law & Practice-II:** The objective of this paper is to familiarize the student with basis income tax law and its practice in business.

24. **Banking Law & Practice in India:** To provide the candidates, the knowledge on the working of Indian Banking System, its constituents, and practices as applicable to business.

**BBA, Integrated MBA, B.Com (A&F)**

Semester: 5

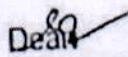
25. **MANAGEMENT INFORMATION SYSTEMS:** To acquaint the students with the basic concepts of management information system and the role of MIS in business.

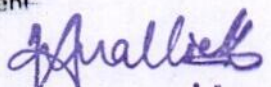
26. **BUSINESS STATISTICS:** The objective of the course is to help the student in understanding the various statistical techniques useful in business studies.

27. **BUSINESS ORGANIZATION:** The objective of this course is to help students gain an understanding of formation & functions of Business Organization.

28. **MANAGEMENT ACCOUNTING:** The objective of this paper is to

  
Chairman  
Board of Studies In  
Management & Hotel Management  
People's University, Bhopal

  
Dean  
Faculty of Management  
& Hotel Management

  
Registrar  
People's University,  
Bhopal (M.P.)

**DEAN**  
**ACADEMIC AFFAIRS**  
PEOPLE'S UNIVERSITY, BHOPAL (M.P.)

provide students a learning framework that will enable them to study the principles & procedures used in the collection & analysis of accounting information.

29. **WORKING CAPITAL MANAGEMENT:** The objective of the course is to acquaint the students with the importance of the working capital and the techniques used in effective working capital management.

30. **PRODUCT & BRAND MANAGEMENT:** The objective of this paper is to familiarize the student with dimensions of product and brand management with the reference to emerging Indian context.

31. **HUMAN RESOURCE DEVELOPMENT:** This objective of this course is to help the student in understanding the need and methods of Human Resource Development.

32. **MANAGEMENT OF FINANCIAL SERVICES:** The objective of the course is to help the students in understanding the Indian Banking System and Financial Services.

33. **HOSPITAL ADMINISTRATION:** To give an idea about hospital and its role, peculiarities and factors influencing hospital care and role of hospital administrator.

BBA, Integrated MBA, B.Com (A&F)

Semester: 6

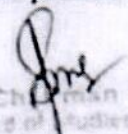
34. **Business Ethics & Corporate Social Responsibility:** The course is designed to develop the value system among the future managers and aimed at equipping the students with the importance of social responsibility of business organizations.

35. **BUSINESS LAWS:** The objective of this paper is to familiarize the students with the theoretical concepts in economics.

Bachelor of Commerce (Accounting & Finance) Semester: 6

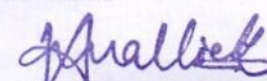
36. **AUDITING:** The objective of this paper is to provide exposure to the basic concepts of auditing.

37. **E-COMMERCE ESSENTIALS:** To make the students aware of the basic principles of e-commerce, its operation and applications in business.

  
Dean  
Board of Studies in  
Management & Hotel Management  
People's University, Bhopal

**DEAN**  
ACADEMIC AFFAIRS  
PEOPLE'S UNIVERSITY, BHOPAL (M.P.)

  
Dean  
Faculty of Management  
& Hotel Management

  
**Registrar**  
People's University  
Bhopal (M.P.)

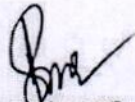
38. **RETAIL MANAGEMENT:** To enable students to identify and understand the significance of retail management in the current business environment.

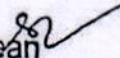
39. **ORGANIZATIONAL DEVELOPMENT:** The objective of this course is to improve the competence of the students in basic language skills and to acquaint the students with the working knowledge of English Language.

40. **SECURITY ANALYSIS & INVESTMENT MANAGEMENT:** The objective of the course is to help the students in understanding the Security Market, its components and Analysis.

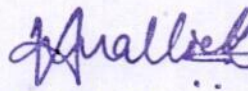
**BBA (Dual Specialization)/ INTEGRATED MBA Semester: 6**

41. **HOSPITAL SUPPORT SERVICES MANAGEMENT:** To review and evaluate services using concepts of organization structure, methods of planning and managing different services in hospitals.

  
Chairman  
Board of Studies In  
Management & Hotel Management  
People's University, Bhopal

  
Dean  
Faculty of Management  
& Hotel Management

**DEAN**  
**ACADEMIC AFFAIRS**  
PEOPLE'S UNIVERSITY, BHOPAL (M.P.)

  
**Registrar**  
People's University  
Bhopal (M.P.)



COURSE OUTCOME (CO)

M.PHARM(PHARMACEUTICS)

| S.no | Name of the program | Name of the course                                   | Course outcome  |
|------|---------------------|--|---|
| 1    | M.Pharm             | Modern Pharmaceutical Analytical Techniques          | Develops clear insight about theoretical and practical skills of the instruments used in pharmaceutical industry.                       |
| 2    |                     | Drug Delivery system                                 | Categorizes new drug delivery systems and formulations.   |
| 3    |                     | Modern Pharmaceutics                                 | Establishes process of development of ethical and quality considerations of medical devices.  |
| 4    |                     | Regulatory Affairs                                   | Develops Pharmacovigilance and process of monitoring in clinical trials   |
| 5    |                     | Molecular Pharmaceutics (Nano Tech and targeted DDS) | Establishes knowledge of Novel drug delivery systems.   |
| 6    |                     | Advanced Biopharmaceutics and pharmacokinetics       | Develops the student for designing and evaluation of dosage regimens of the drugs using pharmacokinetic and biopharmaceutic parameters. |
| 7    |                     | Computer Aided drug delivery System                  | Develops Computer skills for Preclinical Development and Optimization Techniques in Pharmaceutical Formulation.                         |
| 8    |                     | Cosmetics and Cosmeceuticals                         | Establishes skills of new combinations and formulations.  |

DEAN  
ACADEMIC AFFAIRS  
PEOPLE'S UNIVERSITY

  
Registrar  
People's University  
(N.P.)

## Program Outcome

**PO1: Pharmaceutical Knowledge:-** Students achieve a deep knowledge regarding human body, its related diseases, analytical skills, drug molecules (Active Pharmaceutical Ingredients) along with excipients, natural drug resources, chemistry involved in API including synthesis of commonly used drugs, effect of drug on human body, toxicity and impurity profile, ADME studies of drugs (behavior of drug in human body), dosage form studies including novel approaches, designing and development of formulation stability studies, analysis etc

**PO2: Research Analysis:** Develops knowledge in research field to make new relevant discoveries and to identify new entities.

**PO3: Design & Development of dosage forms:** Describes preparation of various dosage forms that could be prepared by the pharmacy students in the pharmaceutical companies for the ease of patients and to optimize formulations.

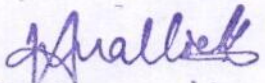
**PO4: Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of the information to provide valid conclusions.

**PO5: Modern methods usage:** Create, select, and apply appropriate techniques, resources and modern methods with an understanding of the limitations and its usage. The student also learns to handle many instruments related to their studies which would help them work in a Pharmaceutical Industry, pharmacovigilance, regulatory requirements, legal processes etc.

**PO6: Pharmacy and society:** Pharmacist provide complete health care data and practices to the people of the society and guide them to be healthy. The student also learns drug distribution system, patient counseling, industrial laws etc. Students achieve expertise in storage and distribution of drugs with all precautions and in-depth knowledge of dose, adverse effect and other health related issues to deal with ambulatory and IPD patients in hospitals and also in public and achieve responsibility of computing profession and society.

**PO7: Environment and sustainability:** Locate the impact of the professional pharmacist in society and environment and make an impact of it on the people of the society.

**DEAN**  
**ACADEMIC AFFAIRS**  
PEOPLE'S UNIVERSITY, BHOPAL

  
**Registrar**  
People's University  
Bhopal (M.P.)

**PO8: Ethics:** Justify & apply ethical principle and commit to professional ethics and responsibilities and norms of the pharmacy practice. Student is also trained in ethical behavior with physician, nurses and other paramedical staff for protecting patient's health.

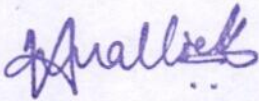
**PO9: Individual and team work:** Function effectively as an individual and as a member or leader in diverse teams acts as a multidisciplinary person in every context. Students will be able to demonstrate rigorous and independent thinking and encourage participatory decision making in teams.

**PO10: Communication:** Develops Communication effectively on pharmaceutical activities with the community and with society.

**PO11: Life-long learning:** Recognize the need and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change and implement those technology by gaining experience.

**PO12: Social Interaction:** Being a public welfare job, a pharmacist would be able to interact with the people in a better way to cure them and make them feel healthy also investigate and evaluate the general state of public health conditions and concerns and develop and apply appropriate programs of action within program content area

DEAN  
ACADEMIC AFFAIRS  
PEOPLE'S UNIVERSITY, BHOPAL (M.P.)

  
Registrar  
People's University  
Bhopal (M.P.)

### Program Specific Outcome

Some of the program specific outcomes are mentioned below:

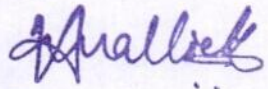
**PSO 1:** Prepared to implement the knowledge gained during the course of the program from pharmacology, pharmaceuticals, medicinal chemistry, pharmacognosy, APHE, communication skills, pharmaceutical analysis, biotechnology, biochemistry, cosmetology and environmental studies.

**PSO 2:** Develops knowledge of ethical and management principle required to work in a team as well as to lead a team.

**PSO 3:** Achieve multidisciplinary jobs in the pharmaceutical industries in various branches and would be able to write relevant and effective project reports in multidisciplinary environment in the context of changing technologies.

**PSO4** Prepares to communicate easily and effectively. Would be able to perform multitasks in multifields including pharmaceuticals & cosmetic in timebound manner. Research area would be the key element.

**DEAN**  
**ACADEMIC AFFAIRS**  
PEOPLE'S UNIVERSITY BHOPAL (M.P.)

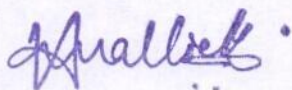
  
**Registrar**  
People's University  
Bhopal (M.P.)

## Program Specific Outcome (PSO)

### M. Pharm(Pharmaceutics)

- Locates on patients and products, accordingly the curriculum has been framed. The theoretical concepts are specifically taught in theory and further the concepts are strengthened and measured during practical's.
- Develops knowledge regarding dosage forms, drug delivery systems, biopharmaceutics and pharmacokinetic study, computer aided drug development during the program and to understand dosage form design, optimization, *in-vitro* parameters and relevant techniques for drug development.
- Describes research methodology, key aspects in research and scientific writing to present the research work.
- Establishes knowledge regarding newer technology and skills in technology development and achieve maximum output.

**DEAN**  
**ACADEMIC AFFAIRS**  
PEOPLE'S UNIVERSITY BHOPAL (M.P.)

  
**Registrar**  
People's University  
Bhopal (M.P.)

## Program Outcome (PO)

### M. Pharm(Pharmaceutics)

**PO1 Pharmaceutical Knowledge:** Achieves a deep knowledge regarding therapeutic effect of the drug, its clinical use, development of new formulations, study of medical devices, guidelines of filing and approval processes, novel drug delivery systems, pharmacokinetic of the drugs, cosmetology and use of computers in pharmaceutical research.

**PO2 Research Analysis:** Establishes knowledge in research field to make new discoveries and dosage forms for better patient compliance.

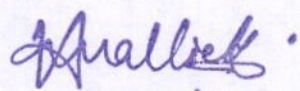
**PO3 Design & Development of dosage forms:** Prepared to formulate new dosage forms in the pharmaceutical companies for the ease of patients.

**PO4: Ethics:** Develops ethical principles and commit to professional ethics and responsibilities and norms of the pharmacy practice.

**PO5: Individual and team work:** Constructs effectively as an individual, and as a member or leader in diverse teams acts as a multidisciplinary person in every context. Students will be able to demonstrate relevant and independent thinking and encourage participatory decision making in teams and as an individual in timebound manner.

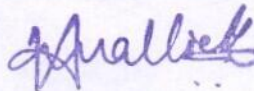
**PO6: Communication and global interaction:** Develops communication effectively and specifically on pharmaceutical activities and dosage forms design, student would be able to interact with the community and global society for scientific interaction that would lead to development of better healthcare.

DEAN  
ACADEMIC AFFAIRS  
PEOPLE'S UNIVERSITY BHOPAL (M.P.)

  
Registrar  
People's University  
Bhopal (M.P.)

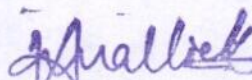
| Year   | Subject  | Outcome  |
|--------|--|--|
| I year | <b>BP101T. HUMAN ANATOMY AND PHYSIOLOGY-I</b><br><br>CO1     | It establishes an insight related to human body and apply pharmaceutical science to it.  |
|        | <b>BP102T. PHARMACEUTICAL ANALYSIS</b><br><br>CO2            | Students construct fundamentals of preparing different strength solutions and interpretations and may execute in its discipline. |
|        | <b>BP103T. PHARMACEUTICS-I</b><br>CO3                        | Students establish techniques and ideas of new dosage forms and combination.   |
|        | <b>BP104T. PHARMACEUTICAL INORGANIC CHEMISTRY</b><br><br>CO4 | It develops the monographs of inorganic drugs and pharmaceuticals.   |
|        | <b>BP105T.COMMUNICATION SKILLS</b><br><br>CO5                | Constructs soft skills set to work cohesively with the team & develops leadership quality.                                       |
|        | <b>BP 106RBT.REMEDIAL BIOLOGY</b><br><br>CO6                 | Establishes knowledge of cell biology, classification system, theory of evolution, tissue system etc.                            |
|        | <b>BP 106RMT.REMEDIAL MATHEMATICS</b><br><br>CO7             | Constructs calculation techniques  |
|        | <b>BP 201T. HUMAN ANATOMY AND PHYSIOLOGY-II</b><br><br>CO8   | It establishes an insight related to human body and apply pharmaceutical science to it.  |
|        | <b>BP202T. PHARMACEUTICAL</b>                                | Builds laboratory techniques   |

**DEAN**  
**ACADEMIC AFFAIRS**  
PEOPLE'S UNIVERSITY BHOPAL

  
**Registrar**  
People's University  
Bhopal (M.P.)

|  |  |  |
|--|--|--|
|  | <b>ORGANIC CHEMISTRY –I</b><br><b>CO9</b>                          |  |
|  | <b>BP203 T. BIOCHEMISTRY</b><br><b>CO10</b>                        | Constructs biochemical facts   |
|  | <b>BP 204T.PATHOPHYSIOLOGY</b><br><b>CO11</b>                      | Builds a baseline knowledge required to practice medicine safely, confidently, rationally and effectively. |
|  | <b>BP205 T. COMPUTER APPLICATIONS IN PHARMACY</b><br><b>CO12</b>   | Constructs use of IT tools in pharmaceutical industry.   |
|  | <b>BP 206 T. ENVIRONMENTAL SCIENCES</b><br><b>CO13</b>             | Demonstrates physical and biological characters of the environment along with social and cultural.         |
|  | <b>BP301T. PHARMACEUTICAL ORGANIC CHEMISTRY –II</b><br><b>CO14</b> | Develops basic knowledge about reactivity, method and mechanism of organic compound.                       |
|  | <b>BP302T. PHYSICAL PHARMACEUTICS-I</b><br><b>CO15</b>             | Modifies in various areas of formulation research and development.   |
|  | <b>BP 303 T. PHARMACEUTICAL MICROBIOLOGY</b><br><b>CO16</b>        | Develops information of all categories of microorganisms.  |
|  | <b>BP 304 T. PHARMACEUTICAL ENGINEERING</b>                        | Develops pharmaceutical manufacturing skills.  |

**DEAN**  
**ACADEMIC AFFAIRS**  
PEOPLE'S UNIVERSITY

  
**Registrar**  
People's University  
Bhopal (M.P.)



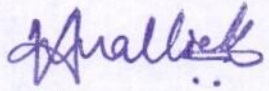
|   |   |   |
|---|---|---|
| II year   | CO17  |   |
|   | BP401T.<br>PHARMACEUTICAL<br>ORGANIC CHEMISTRY –III<br>CO18 | Develops knowledge on medicinal and other uses of organic compounds.  |
|   | BP402T. MEDICINAL<br>CHEMISTRY – I<br>CO19                  | Establishes the student in correlating between the pharmacology of a disease and its cure.  |
|   | BP 403 T. PHYSICAL<br>PHARMACEUTICS-II<br>CO20              | Develops better insight into various areas of formulation research and development.   |
|   | BP 404 T.<br>PHARMACOLOGY-I<br>CO21                         | Establishes a correlation of pharmacology with other biomedical sciences.   |
|   | BP 405 T.PHARMACOGNOSY<br>AND PHYTOCHEMISTRY I<br>CO22      | Categorizes herbal formulations   |
|   | III year  | BP501T. MEDICINAL<br>CHEMISTRY – II<br>CO23   |
| BP 502 T. Industrial<br>PharmacyI<br>CO24       |   | Builds student to understand and appreciate the influence of pharmaceutical additives and various pharmaceutical dosage forms on the performance of the drug product. |
| BP503.T.<br>PHARMACOLOGY-II<br>CO25             |   | Establishes knowledge of classification & mode of action of drugs.  |
| BP504 T. PHARMACOGNOSY<br>AND PHYTOCHEMISTRY II |   | Establishes basic principles of traditional system of medicine.   |

DEAN  
ACADEMIC AFFAIRS  
PEOPLE'S UNIVERSITY, BHOPAL (M.P.)

*Mallik*  
Registrar  
People's University  
Bhopal (M.P.)

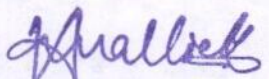
|  |   |   |
|--|---|---|
|  | <b>CO26</b>   |   |
|  | <b>BP 505 T. PHARMACEUTICAL JURISPRUDENCE</b><br><b>CO27</b>          | Establishes knowledge about important legislations related to the profession of pharmacy in India.                  |
|  | <b>BP601T. MEDICINAL CHEMISTRY – III</b><br><b>CO28</b>               | Develops fundamental knowledge on the structure, chemistry and therapeutic value of drugs.                          |
|  | <b>BP602 T. PHARMACOLOGY-III</b><br><b>CO29</b>                       | Establishes diagnostic and classification technique.  |
|  | <b>BP 603 T. HERBAL DRUG TECHNOLOGY</b><br><b>CO30</b>                | This subject gives the student the knowledge of basic understanding of herbal drug industry.                        |
|  | <b>BP 604 T. BIOPHARMACEUTICS AND PHARMACOKINETICS</b><br><b>CO31</b> | Employs techniques of dosage forms and regimen.   |
|  | <b>BP 605 T. PHARMACEUTICAL BIOTECHNOLOGY</b><br><b>CO32</b>          | This course would lead to new biological revolutions in diagnosis, prevention and cure of diseases.                 |
|  | <b>BP606TPHARMACEUTICAL QUALITY ASSURANCE</b><br><b>CO33</b>          | Builds various aspects of quality control and quality assurance of pharmaceutical industries.                       |
|  | <b>BP701T. INSTRUMENTAL METHODS OF ANALYSIS</b><br><b>CO34</b>        | Imparts fundamental knowledge on the principles and instrumentation of spectroscopic and chromatographic technique. |

**DEAN**  
**ACADEMIC AFFAIRS**  
PEOPLE'S UNIVERSITY, BHOPAL

  
**Registrar**  
People's University  
Bhopal (M.P.)

|                |  |   |
|----------------|--|---|
| <b>IV year</b> |  |   |
|                | <b>BP 702 T. INDUSTRIAL PHARMACYII</b><br><b>CO35</b>                | Builds new ideas related to production of pharmaceutical products.                  |
|                | <b>BP 703T. PHARMACY PRACTICE</b><br><b>CO36</b>                     | Employs the student to provide minor ailments to the patients.                      |
|                | <b>BP 704T: NOVEL DRUG DELIVERY SYSTEMS</b><br><b>CO37</b>           | Categorizes novel drug delivery system  |
|                | <b>BP801T. BIOSTATISTICS AND RESEARCH METHODOLOGY</b><br><b>CO38</b> | Measures applications of Biostatistics in Pharmacy.                                 |
|                | <b>BP 802T SOCIAL AND PREVENTIVE PHARMACY</b><br><b>CO39</b>         | Relates health issues and their challenges  |
|                | <b>BP803ET. PHARMA MARKETING MANAGEMENT</b><br><b>CO40</b>           | Develops the student for taking a challenging role in Sales and Product management. |
|                | <b>BP804 ET: PHARMACEUTICAL REGULATORY SCIENCE</b><br><b>CO41</b>    | Establishes regulatory aspects and ethics.  |
|                | <b>BP 805T: PHARMACOVIGILANCE</b>                                    | Develops skills of classifying drugs, diseases and adverse drug reactions.          |

**DEAN**  
**ACADEMIC AFFAIRS**  
PEOPLE'S UNIVERSITY, BHOPAL (M.P.)

  
**Registrar**  
People's University  
Bhopal (M.P.)

|  |   |   |
|--|---|---|
|  | <b>CO42</b>   |   |
|  | <b>BP 806 ET. QUALITY CONTROL AND STANDARDIZATION OF HERBALS</b><br><b>CO43</b> | Develops standardization of herbal drugs  |
|  | <b>BP 807 ET. COMPUTER AIDED DRUG DESIGN</b><br><b>CO44</b>                     | Develops rational drug design process.  |
|  | <b>BP808ET: CELL AND MOLECULAR BIOLOGY (Elective subject)</b><br><b>CO45</b>    | Theorize complete cell biology  |
|  | <b>BP809ET. COSMETIC SCIENCE(Theory)</b><br><b>CO46</b>                         | Develops ideas of new formulations with different combinations.   |
|  | <b>BP810 ET. PHARMACOLOGICAL SCREENINGMETHODS</b><br><b>CO47</b>                | Creates hand in preclinical animal handling   |
|  | <b>BP 811 ET. ADVANCED INSTRUMENTATION TECHNIQUES</b><br><b>CO48</b>            | Develops knowledge about the principles and instrumentation of spectroscopic and chromatographic techniques.      |
|  | <b>BP 812 ET. DIETARY SUPPLEMENTS AND NUTRACEUTICALS</b><br><b>CO49</b>         | Constructs ideas regarding need and requirements of dietary supplements among different groups in the population. |

**DEAN**  
**ACADEMIC AFFAIRS**  
PEOPLE'S UNIVERSITY, BHOPAL (M.P.)

*Pratibha*  
**Registrar**  
People's University,  
Bhopal (M.P.)

**School of Research and Technology, PU, Bhopal**

**2.6.1 Attainment of program outcomes, program specific outcomes and course outcomes are evaluated by the institution**

The program outcome of the university consists in moulding students and incorporating following graduate attributes which are knowledge, research analysis, skill, attitude, communication skill, ethics, team work and competent to contribute to the welfare of the society. These programs are designed by the Board of Studies (BOS) and Dean faculty of studies (FOD) after analysing various feedbacks obtained from stake holders.

**PO1: Knowledge:-** In-depth knowledge of the subject is designed by the BOS. The students after

Completing their program achieves relevant and complete knowledge would have ability to generate innovative and relevant knowledge of their academics and they would be committed to excellence in their core academic field.

**PO2: Research Analysis:** Develops knowledge in research field to make new relevant discoveries and to identify new entities.

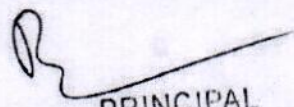
**PO3: Conduct investigations of complex problems:** The University in all its programs uses research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of the information to provide valid conclusions.

**PO4: Modern methods usage:** Create, select, and apply appropriate techniques, resources and modern methods with an understanding of the limitations and its usage. The student also learns to handle many instruments related to their studies which would help them work in industry.

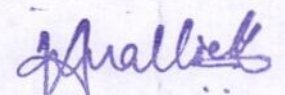
**PO5: Environment and sustainability:** Our graduates will be responsible members of social and professional communities. They would promote democratic values and peaceful living in a multi-faceted society with courage of conviction.

**PO6: Ethics:** Justify & apply ethical principle and commit to professional ethics and responsibilities and norms towards their profession. They would be led by the voice of their conscience and always do what is right.

**PO7: Individual and team work:** Function effectively as an individual and as a member or leader in diverse teams acts as a multidisciplinary person in every context. Students will be able

  
PRINCIPAL  
SCHOOL OF RESEARCH & TECHNOLOGY  
PEOPLE'S UNIVERSITY  
DHANPUR, BHOPAL-462011

DEAN  
ACADEMIC AFFAIRS  
PEOPLE'S UNIVERSITY, BHOPAL (M.P.)

  
Registrar  
People's University  
Bhopal (M.P.)

to demonstrate rigorous and independent thinking and encourage participatory decision making in teams.

**PO8: Communication:** Our graduates would develop Communication effectively with the community and with society.

**PO9: Life-long learning:** Recognize the need and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change and implement that technology by gaining experience.

**PO10: Social Interaction:** They would be socially conscious, sensitive and active person who are committed and accountable agents of social good. They would be committed to social justice and the dignities of all sections of the society, especially the underprivileged.

The program specific outcome of our university consists of the following attributes:-

**PSO 1:** Prepared to implement the knowledge gained during the course of the program. Would develop ability to learn individually and collaborate through the process of research, critical reflection and synthesis.

**PSO 2:** Develops knowledge of ethical and management principle required to work in a team as well as to lead a team. The graduate would enunciate and abide by standards of ethics.


**PSO 3:** Achieve multidisciplinary jobs in the respective fields and would be able to write relevant and effective project reports in multidisciplinary environment in the context of changing technologies.

**PSO4** Prepares to communicate easily, effectively and professionally. Would be able to perform multitasks in multi-fields in time bound manner. Would be able to articulate ideas clearly and effectively.

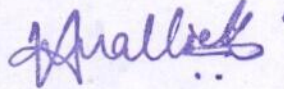
**COURSE OUTCOMES :-** Individual college CO required

**Link of Website given below of respective data:**

[http://peoplesuniversity.edu.in/peoples-home/Engineering/?page\\_id=1447](http://peoplesuniversity.edu.in/peoples-home/Engineering/?page_id=1447)

  
PRINCIPAL  
SCHOOL OF RESEARCH & TECHNOLOGY  
PEOPLE'S UNIVERSITY  
BHANPUR, BHOPAL-462007

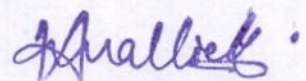
  
DEAN  
ACADEMIC AFFAIRS  
PEOPLE'S UNIVERSITY, BHOPAL

  
Registrar  
People's University  
Bhopal (M.P.)

**PEOPLE'S COLLEGE OF DENTAL SCIENCES AND RESEARCH**  
**PROGRAM OUTCOME**

1. Competence in diagnosing and managing common oral diseases, intraoral lesions and potentially malignant lesions
2. Ability to identify the normal structures of oral cavity, differentiation between primary and permanent teeth and normal growth of jaws.
3. Understanding of the various materials used in dentistry and their effective application
4. Diagnosing various conditions related to periodontium and rendering the prescribed management
5. Ability to diagnose various malocclusions and explain the treatment options to the patient
6. Imparting Managerial and interpersonal skills for conducive communication
7. Skill to conduct and manage outreach programmes to sensitise the mass population for cessation of delirious oral habits like tobacco chewing and smoking.
8. To provide primary emergency care as part of oral surgery training
9. Imparting efficient treatment and management of patients with special needs.
10. Managing and counseling of pediatric patients.
11. Skill for acquiring and interpreting routine and specialized oral radiographs.



  
**Registrar**  
People's University  
Bhopal (M.P.)

**DEAN**  
**ACADEMIC AFFAIRS**  
PEOPLE'S UNIVERSITY, BHOPAL (M.P.)