# FIRST BHMS PROFESSIONAL COURSE

(Applicable from Batch 2022-2023 onwards for 5 years or until further notification by National Commission for Homoeopathy whichever is earlier)

(Homoeopathic Pharmacy)



# HOMOEOPATHY EDUCATION BOARD NATIONAL COMMISSION FOR HOMOEOPATHY

MINISTRY OF AYUSH, GOVERNMENT OF INDIA

JAWAHAR LAL NEHRU BHARTIYA CHIKITSA AVUM HOMOEOPATHY ANUSANDHAN BHAVAN

No.61-65, Institutional Area, opp. 'D' block, Janak Puri, New Delhi-110 058

# **Course-**Homoeopathic Pharmacy

Course code: Hom-UG-HP

# **INDEX**

Sr. No	Description	Page Number
1	Preamble	02
2	Program Outcomes (PO)	03
3	Course Outcomes (CO)	04
4	Teaching Hours	05
5	Course Content	13
6	Teaching Learning Methods	21
7	Content Mapping (Competencies Table)	22
8	Practical Topics	107
9	Assessment	110
10	List of Recommended Books	115
11	List of Contributors	122

#### 1. PREAMBLE

Pharmacy holds a unique place in Homoeopathic practice and education. It involves knowledge of sources of drugs and the process through which these are processed to obtain dynamic, potent homoeopathic drugs for use at the bedside. It encompasses knowledge of drug action, drug proving, methods of Quality testing, standardization & storage with up todate information of changing drug laws related to Homoeopathic Pharmaceutical Industry & Homoeopathy.

We all know the travails which Master went through while establishing the right to manufacture and dispense what he had so painfully discovered. The challenges have not lessened in the modern era when 'scientific' evidence has been gathered for dubbing Homoeopathic medicines as nothing more than a placebo. It is important that the entrant to our science is introduced to the scientific nature of the process employed to prepare our medicines and he develops confidence in the soundness of the practices as well as its efficacy. The student should also appreciate the more than 250 year advance that Hahnemann was able to establish of Homoeopathic science. We now know that Homoeopathy is the 'greenest' of all medical systems in existence and that is sustainable, eco-friendly and the most economic while being effective over a wide range of conditions.

The way that this can be conveyed is by adopting an integrated approach to Pharmacy education and training. Effective linkages with the subjects of Homoeopathic Philosophy and Materia Medica will be able to convey the strong roots that the practice of Pharmacy has not only in the philosophical approach but also the experimental results as seen through the proving from which the world of Materia Medica has evolved.

Simultaneously, the recent advances in the bio-physical and quantum physics has opened new avenues to address the age-old question of how homoeopathic medicines act. A host of researchers are already doing work which the student needs to be made conversant with. That will produce an insight of the way new researches and developments in related fields of the 21<sup>st</sup> century are able to start explaining Hahnemann's insights of the 18<sup>th</sup>! This will also firmly root the student in the first year itself to being a participant in ongoing research related to the discipline which will be his own. Hence the teacher of Pharmacy has a crucial role to play in being abreast of the developments in the field and lend to the student the excitement that becomes a part of teaching-learning.

#### 2. PROGRAMME OUTCOMES

At the end of BHMS program, a student must

- 1)Develop the knowledge, skills, abilities and confidence as a primary care homoeopathic practitioner to attend to the health needs of the community in a holistic manner
- 2) Correctly assess and clinically diagnose common clinical conditions prevalent in the community from time to time
- 3) Identify and incorporate the socio-demographic, psychological, cultural, environmental & economic factors affecting health and disease in clinical work
- 4) Recognize the scope and limitation of homoeopathy in order to apply Homoeopathic principles for curative, prophylactic, promotive, palliative, and rehabilitative primary health care for the benefit of the individual and community
- 5) Be willing and able to practice homoeopathy as per medical ethics and professionalism.
- 6) Discern the scope and relevance of other systems of medical practice for rational use of cross referrals and role of life saving measures to address clinical emergencies
- 7) Develop the capacity for critical thinking, self reflection and a research orientation as required for developing evidence based homoeopathic practice.
- 8) Develop an aptitude for lifelong learning to be able to meet the changing demands of clinical practice
- 9) Develop the necessary communication skills and enabling attitudes to work as a responsible team member in various healthcare settings and contribute towards the larger goals of national health policies such as school health, community health and environmental conservation.

#### 3.COURSE OUTCOMES

At the end of the course of Homoeopathic Pharmacy, I BHMS Student will be able to

- 1. Explain the principles that govern homoeopathic pharmacy.
- 2. Discuss the pharmacognosical basis of homoeopathic drugs with respect to their identification, nomenclature, source, part used, method of collection and preparation.
- 3. Prepare homoeopathic medicines from their respective sources according to the different scales & methods of potentisation on a small scale in the laboratory.
- 4. Describe the pharmacology of homoeopathic drugs with respect to the types of drug action, sphere of action and pharmacological action of homoeopathic drugs integrated with Homoeopathic Materia Medica, Anatomy and physiology.
- 5. Relate the methodology of Homoeopathic Drug Proving integrated with Organon of Medicine.
- 6. Apply the principles of Homoeopathic Posology in different health care setting like OPD/IPD integrated with Organon of Medicine and Homoeopathic Materia Medica.
- 7. State the methods of standardization and quality control of homoeopathic medicines to ensure the genuineness of homoeopathic medicines.
- 8. Explain the principles of pharmaconomy, dispensing and preservation of homoeopathic medicines.
- 9. Engage the principles of pharmaco-vigilance, and adverse drug reaction in relation to homoeopathic medicines.
- 10. Write an ideal prescription.
- 11. Evaluate the scope for research in homoeopathic pharmacy in the context of the recent advancements in pharmaceutical sciences

# 1. TEACHING HOURS

Sr No.	Subject	Theoretical Lecture	Practical + Posting at IPD/OPD/Hospital Dispensing Section
01	Homeopathic Pharmacy	100 hrs.	110 hrs.

# Teaching Hours (Theory)

A. List of Topics	A. List of Topics		C.Teaching Hours
a) General Concepts and Orientation:			
History of Pharmacy with emphasis on emergence of Homoeopathic Pharmacy.	Definition of Pharmacy & Homoeopathic Pharmacy  Concept of Drug substance, Drug, Medicine & Remedy  Forming Basic concept of other AYUSH Schools of Pharmacy (Ayurveda, Siddha, Sowa Rigpa& Unani Pharmacy)		03
Homoeopathic Pharmacy Basics	Sources of Homoeopathic Pharmacy Branches of Pharmacy Scope of Homoeopathic Pharmacy Specialty and originality of Homoeopathic Pharmacy The Principles of Homoeopathy		04

	Law of Similia, Simplex & Minimum		
	Theory of Chronic Disease & Vital Force		
	Doctrine of Drug Proving & Drug Dynamisation		
Homoeopathic Pharmacopoeia	The Evolution, History & Development of Homoeopathic Pharmacopoeias throughout the world (year wise Publications) – GHP, BHP, HPUS, FHP	I	04
	Official –(HPI) & Unofficial Pharmacopoeias –		
	(M Bhattacharya & Co's Homoeopathic Pharmacopoeia		
	Encyclopaedia of Homoeopathic Pharmacopoeia – P N Verma, Homoeopathic Pharmaceutical Codex)		
	Monograph, Contents of Monograph with its individual importance		
Ideal laboratory	Pre requisites of ideal Laboratory (General Laboratory), Laboratory safety Rules	1	02
	Role of Laboratory in Homoeopathic Pharmacy Education		
Weights and	Metrology	I	01
measurements.	Basics & Units of Apothecary System, British Imperial System, Metric System		
	Interrelationship between various systems of Weight & Measure		
	Concept on Domestic Measures with Metric Equivalents		

Nomenclature	The Basic Rules of Nomenclature  Nomenclature of Homoeopathic Drugs  Important terminologies like scientific names, common names, synonyms  Anomalies in Nomenclature		02
Pioneers of Homoeopathic Pharmacy	Role & contributions of Pioneers in development of Homoeopathic Pharmacy	I	02
b) Raw Material: Drugs and '	Vehicles		
Source of drugs in Homoeopathy	Different sources - Plant kingdom, Animal kingdom, Mineral kingdom, Nosodes, Sarcodes, Imponderabilia, Synthetic source,  New Sources - Allersode, Isodes with reference to their clinical utility	I	07
	Introduction to Bowel Nosodes, Tissue remedies		
Collection of drug substances	General and Specific guidelines for collecting drugs from all available sources	I	03
Vehicles.	Definition, classification, General Use  Source, Properties & Particular use of Vehicles with respect to List Provided in Appendix D  Preparation – Commercial Lactose, Alcohol  Purity tests – Water, Alcohol, Sugar of Milk	I	06
c) Homoeopathic Pharmaceu	utics:		

Mother tincture and its preparation	Extraction – Principles & Various Methods Old Method (Based on Class I to IX) Concept of Uniform Drug Strength Estimation of Moisture Content - Necessity New Method/Modern Approach of	II	07
	Homoeopathic Drug Preparation		
Various Scales of Potentization in Homoeopathic pharmacy.	History of development, Introducer, Designation, Preparation, Administration & Application with respect to - Centesimal Scale, Decimal Scale & 50 Millesimal Scale	II	03
Drugs Dynamisation	The Evolution of Dynamisation Concept in Homoeopathy  Potentisation & its types  The Merits of Potentisation  Succussion & Trituration  Various types of Potency— Fluxion Potency, Jumping Potency, Back Potency, Single Vial Potency, Multiple Vial Potency, Mixed Vial Potency  Post-Hahnemannian Potentization Techniques	II	06
External applications	Scope of administration of External Applications in Homoeopathic Practice  Dr Hahnemann's View as per Organon (5 <sup>th</sup> & 6 <sup>th</sup> Ed)  Preparation & Uses of lotion, glycerol, liniment	II	05

	and ointment.		
	Commercial Preparation of Ointment		
Posology	Basic principles of Homoeopathic Posology	III	06
	Related aphorisms of Organon of medicine.		
	Criteria for Selection of Potency & Repetition of Dose		
	Various Kinds of Dose, Emphasis on Minimum Dose		
Prescription	Prescription Writing	III	02
	Important Abbreviations		
	Parts & Contents of Prescription		
	Merits & Demerits of Prescription Writing		
Dispensing of Homoeopathic Medicines	Various Dosage Forms – Solid, Liquid Dosage Forms,	II	02
	Methods of Dispensing		
Placebo.	Concept of Homoeopathic Placebo	II	01
	The Philosophy of administration of placebo		
	Concept of Placebo Effect		
Pharmaconomy	Routes of Homoeopathic drug administration.	II	02
Preservation	Preservation Rules – Raw Materials Drug Substance, Mother Preparations, Finished products & Vehicles	II	02

d) Pharmacodynamics			
■ Doctrine of Signature.	Basic Concept, Its Evolution & Application in Ancient Medical System Supporters of the Doctrine Dr Hahnemann's view on the Doctrine	II	01
■ Drug Proving.	Homoeopathic Pharmacodynamics  With reference to aphorisms 105 – 145 of Organon of Medicine – 6 <sup>th</sup> Ed)  Post Hahnemannian Drug Proving  Homoeopathic Pathogenetic Trial (HPT)  CCRH & Other Protocols on HPT  Other Noted Provers & their work on Drug Proving	III	06
<ul><li>Adverse Drug Reactions</li></ul>	Basic Idea, Reporting of ADE  Drug safety with Ref to HPI  Medication errors, Causality Assessment  Incompatible Remedies	II	02
■ Pharmaco-vigilance.	Pharmacovigilance in Homoeopathy  Activities of Pharmacovigilance Centres  Awareness on Medicinal Preparations against Homoeopathic Principles – Patents, Combinations	II	02
<ul><li>Pharmacological</li></ul>	listed in Appendix-A (Any 15)	III	05

study of drugs			
e) Quality Control:			
• Standardisation in	Different Methods of Standardisation	II	02
Homoeopathy	Quality Control of Raw Materials – Various Evaluation techniques		
	In Process Quality Control		
	Quality Control of finished products – Various standard parameters		
Industrial pharmacy.	Good Manufacturing Practices (GMP)	II	02
	Schedule M1		
Homoeopathic pharmacopoeia	Functions and Activities of HPL relating to quality control of drugs.	II	01
laboratory (HPL)	Pharmacopoeia Commission for Indian Medicines		
f) Legislations pertaining to I	Homoeopathic Pharmacy:	III	04
The Drugs and Cosmetics Act	, 1940 (23 to 1940)		
Drugs and Cosmetics Rules, 1	945		
Medicinal and Toilet Preparations (Excise Duties) Act, 1955 (16 of 1955)			
Drugs and Magic Remedies (Objectionable Advertisements) Act, 1954 (21 of 1954)			
The Narcotic Drugs and Psychotropic Substances Act, 1985 (61 of 1985)			
Dangerous Drug Act, 1930			

g) Recent Advances in Homoeopathic Pharmacy	III	02
Modern theories related with Homoeopathic Drug action		
<ul> <li>Principles of Drug action</li> <li>Introduction to Nanomedicine</li> <li>Molecular Mechanism of Drug Action</li> <li>Mechanism of Action of Homoeopathic Medicines</li> </ul>		
Scope of Research in Homoeopathic Pharmacy	III	01
<ul> <li>Drug Discovery</li> </ul>		
<ul> <li>Principles of New Drug discovery</li> </ul>		
Clinical evaluation of New Drugs		
<ul> <li>Pre-Clinical Research in Homoeopathic Pharmacy</li> </ul>		
h) Homoeopathic Pharmacy - Relationships	III	02
Relation of Homoeopathic Pharmacy with Anatomy		
Relation of Homoeopathic Pharmacy with Physiology		
Relation of Homoeopathic Pharmacy with Materia Medica		
With reference to Source of Drugs, Identification, Common Name of Drugs, Role of Drug Proving & Other Types of Proving in construction of Materia Medica, Clinical Verification		
Family wise study of Sphere of action — Solanaceae, Loganiaceae, Compositae, Liliaceae, Anacardiaceae, Rubiaceae etc		

# **Teaching Hours (Practical)**

Hom	Homoeopathic Pharmacy Practicals		Peyton's 4 step assessment criteria
	Particulars of Experiments		
1	Estimation of size of globules	2	Execution
2	Medication of globules (Small Scale)	2	Execution
3	Purity test of Sugar of milk	2	Comprehension & Execution
4	Purity test of water	2	Comprehension & Execution
5	Purity test of Ethyl alcohol	2	Comprehension & Execution
6	Determination of Specific gravity of a given liquid Vehicle & identifying the same.	2	Execution
7	Preparation of dispensing alcohol from strong alcohol.	1	Comprehension & Execution
8	Preparation of dilute alcohol from strong alcohol.	1	Comprehension & Execution
9	Trituration of drug in Old Method (One each of Class VII, VIII & IX)	3	Execution
10	Trituration of one drug as per HPI	1	Execution
11	Succussion in decimal scale from Mother Tincture (Prepared in Old Method) to 3X potency.	2	Execution
12	Succussion in decimal scale from Mother Tincture (Prepared in New Method) to 3X potency	2	Execution
13	Succussion in centesimal scale from Mother Tincture (Prepared in Old Method) to 3C	2	Execution
14	Succussion in centesimal scale from Mother Tincture (Prepared in New Method) to 3C	2	Execution
15	Conversion of Trituration to liquid potency: Decimal scale 6X to 8X potency.	1	Execution

16	Conversion of Trituration to liquid potency: Centesimal scale 3C to 4C potency.	1	Execution
17	Preparation of 0/2 potency (Solid form) (LM scale) of 1 Drug from 3 <sup>rd</sup> Degree Trituration.	2	Execution
18	Preparation of external applications – Lotion	1	Execution
19	Preparation of external applications – Glycerol	1	Execution
20	Preparation of external applications – Liniment	1	Execution
21	Preparation of external applications – Ointment	1	Execution
22	Writing of prescription & Dispensing the Medicine in Water with preparation of Doses	1	Execution
23	Writing of prescription & Dispensing the Medicine in Sugar of Milk with Preparation of Doses	1	Execution
24	Preparation of mother tinctures according to Old Hahnemannian method (Class I, II, III, IV)	8	Execution
25	Preparation of mother solutions according to Old Hahnemannian method (Class Va, Vb, Vla, Vlb)	4	Execution

# 5. **COURSE CONTENT**

# A. THEORY

Table 4: Homoeopathic Pharmacy Theory								
a) General Concepts and Orientation:								
History of Pharmacy with emphasis on emergence of Homoeopathic Pharmacy.	Definition of Pharmacy & Homoeopathic Pharmacy  Concept of Drug substance, Drug, Medicine & Remedy  Forming Basic concept of other AYUSH Schools of Pharmacy (Ayurveda, Siddha, Sowa Rigpa& Unani Pharmacy)							
Homoeopathic Pharmacy Basics	Sources of Homoeopathic Pharmacy Branches of Pharmacy Scope of Homoeopathic Pharmacy Specialty and originality of Homoeopathic Pharmacy The Principles of Homoeopathy Law of Similia, Simplex & Minimum Theory of Chronic Disease & Vital Force Doctrine of Drug Proving & Drug Dynamisation							

Homoeopathic Pharmacopoeia	The Evolution, History & Development of Homoeopathic Pharmacopoeias throughout the world (year wise Publications) – GHP, BHP, HPUS, FHP							
	Official –(HPI) &Unofficial Pharmacopoeias –							
	(M Bhattacharya & Co's Homoeopathic Pharmacopoeia							
	Encyclopaedia of Homoeopathic Pharmacopoeia – P N Verma, Homoeopathic Pharmaceutical Codex)							
	Monograph, Contents of Monograph with its individual importance							
Ideal laboratory	Pre requisites of ideal Laboratory (General Laboratory), Laboratory safety Rules							
	Role of Laboratory in Homoeopathic Pharmacy Education							
Weights and measurements.	Metrology							
	Basics & Units of Apothecary System, British Imperial System, Metric System							
	Interrelationship between various systems of Weight & Measure							
	Concept on Domestic Measures with Metric Equivalents							
Nomenclature	The Basic Rules of Nomenclature							
	Nomenclature of Homoeopathic Drugs							
	Important terminologies like scientific names, common names, synonyms							
	Anomalies in Nomenclature							
Pioneers of Homoeopathic Pharmacy	Role & contributions of Pioneers in development of Homoeopathic Pharmacy							
b) Raw Material: Drugs and V	ehicles							

Source of drugs in Homoeopathy	Different sources - Plant kingdom, Animal kingdom, Mineral kingdom, Nosodes, Sarcodes, Imponderabilia, Synthetic source,  New Sources - Allersode, Isodes with reference to their clinical utility  Introduction to Bowel Nosodes, Tissue remedies
Collection of drug substances	General and Specific guidelines for collecting drugs from all available sources
Vehicles.	Definition, classification, General Use Source, Properties & Particular use of Vehicles with respect to List Provided in Appendix D Preparation – Commercial Lactose, Alcohol Purity tests – Water, Alcohol, Sugar of Milk
c) Homoeopathic Pharmac	eutics:
Mother tincture and its preparation	Extraction – Principles & Various Methods  Old Method (Based on Class I to IX)  Concept of Uniform Drug Strength  Estimation of Moisture Content - Necessity  New Method/Modern Approach of Homoeopathic Drug Preparation
Various Scales of Potentization in Homoeopathic pharmacy.	

Drugs Dynamisation	The Evolution of Dynamisation - Concept in Homoeopathy							
	Potentisation & its types							
	The Merits of Potentisation							
	Succussion & Trituration							
	Various types of Potency– Fluxion Potency, Jumping Potency, Back Potency, Single Vial Potency, Multiple Vial Potency, Mixed Vial Potency							
	Post-Hahnemannian Potentization Techniques							
External applications	Scope of administration of External Applications in Homoeopathic Practice							
	Dr Hahnemann's View as per Organon (5 <sup>th</sup> & 6 <sup>th</sup> Ed)							
	Preparation & Uses of lotion, glycerol, liniment and ointment.							
	Commercial Preparation of Ointment							
Posology	Basic principles of Homoeopathic Posology							
	Related aphorisms of Organon of medicine.							
	Criteria for Selection of Potency & Repetition of Dose							
	Various Kinds of Dose, Emphasis on Minimum Dose							
Prescription	Prescription Writing							
	Important Abbreviations							
	Parts & Contents of Prescription							
	Merits & Demerits of Prescription Writing							
Dispensing of	Various Dosage Forms – Solid, Liquid Dosage Forms,							
Homoeopathic Medicines	Methods of Dispensing							

Placebo.		Concept of Homoeopathic Placebo									
	7	The Philosophy of administration of placebo									
	(	Concept of Placebo Effect									
Pharmaconomy	F	Routes of Homoeopathic drug administration.									
Preservation		reservation Rules – Raw Materials Drug Substance, Mother Preparations, Finished products & ehicles									
d) Pharmacodynamics	5										
<ul><li>Doctrine</li></ul>	of	Basic Concept, Its Evolution & Application in Ancient Medical System									
Signature.		Supporters of the Doctrine									
		Dr Hahnemann's view on the Doctrine									
<ul><li>Drug Proving.</li></ul>		Homoeopathic Pharmacodynamics									
		With reference to aphorisms 105 – 145 of Organon of Medicine – 6 <sup>th</sup> Ed)									
		Post Hahnemannian Drug Proving									
		Homoeopathic Pathogenetic Trial (HPT)									
		CCRH & Other Protocols on HPT									
		Other Noted Provers & their work on Drug Proving									
<ul><li>Adverse</li></ul>	Drug	Basic Idea, Reporting of ADE									
Reactions		Drug safety with Ref to HPI									
		Medication errors, Causality Assessment									
		Incompatible Remedies									

Pharmaco-vigilance.	Pharmacovigilance in Homoeopathy								
	Activities of Pharmacovigilance Centres								
	Awareness on Medicinal Preparations against Homoeopathic Principles – Patents, Combinations								
<ul><li>Pharmacological study of drugs</li></ul>	listed in Appendix-A (Any 15)								
e) Quality Control:									
• Standardisation in	Different Methods of Standardisation								
Homoeopathy	Quality Control of Raw Materials – Various Evaluation techniques								
	In Process Quality Control								
	Quality Control of finished products – Various standard parameters								
Industrial pharmacy.	Good Manufacturing Practices (GMP)								
	Schedule M1								
Homoeopathic	Functions and Activities of HPL relating to quality control of drugs.								
pharmacopoeia laboratory (HPL)	Pharmacopoeia Commission for Indian Medicines								
f) Legislations pertaining to Ho	omoeopathic Pharmacy:								
The Drugs and Cosmetics Act, 2	1940 (23 to 1940)								
Drugs and Cosmetics Rules, 19	45								
Medicinal and Toilet Preparation	ons (Excise Duties) Act, 1955 (16 of 1955)								
Drugs and Magic Remedies (Ol	bjectionable Advertisements) Act, 1954 (21 of 1954)								
The Narcotic Drugs and Psycho	otropic Substances Act, 1985 (61 of 1985)								

Dangerous Drug Act, 1930

# g) Recent Advances in Homoeopathic Pharmacy

Modern theories related with Homoeopathic Drug action

- 1. Principles of Drug action
- 2. Introduction to Nanomedicine
- 3. Molecular Mechanism of Drug Action
- 4. Mechanism of Action of Homoeopathic Medicines

Scope of Research in Homoeopathic Pharmacy

- 1. Drug Discovery
- 2. Principles of New Drug discovery
- 3. Clinical evaluation of New Drugs
- 4. Pre-Clinical Research in Homoeopathic Pharmacy

# h) Homoeopathic Pharmacy - Relationships

Relation of Homoeopathic Pharmacy with Anatomy

Relation of Homoeopathic Pharmacy with Physiology

Relation of Homoeopathic Pharmacy with Materia Medica

With reference to Source of Drugs, Identification, Common Name of Drugs, Role of Drug Proving & Other Types of Proving in construction of Materia Medica, Clinical Verification

Family wise study of Sphere of action – Solanaceae, Loganiaceae, Compositae, Liliaceae, Anacardiaceae, Rubiaceaeetc

### B. Practical – Lab Work – Field – Clinical Hospital Work

1. Laboratory Work -

Practical Class (Experiments) - Maintaining Record of Experiments Conducted

(Principle, Requirements, Calculation if applicable, Process, Label, Conclusion/Inference)

Practical Class (Demonstration) – Maintaining Records of Practical Demonstrated

(Principle, Requirements, Calculation if applicable, Process, Label, Conclusion/Inference)

#### **Field Visits-**

- A) Maintain File/Report on Visit to GMP Compliant Large Scale Medicine Manufacturing Unit (Format should be as per Appendix E)
- B) Maintain File/Report on Visit to Medicinal Plant Garden (Format should be as per Appendix F)

#### Activity -

- (a) Clinical Hospital Work Maintain Record (Activities/Posting in Dispensing Section, Prescriptions based on Homoeopathic Principles in IPD/OPD) Record to be maintained as per format in Appendix G
- **(b) Seminar** Maintain Record on Seminar Presentation on Topics of Homoeopathic Pharmacy as assigned Record to be maintained as per Appendix H
- (c) Herbarium Maintenance of 30 Plant Drug Substances Samples

#### **B. PRACTICALS**

Tabl	Table 5 : Homoeopathic Pharmacy Practicals							
Sr No.								
NO.	Particulars of Experiments							
1	Estimation of size of globules							

2	Medication of globules (Small Scale)
3	Purity test of Sugar of milk
4	Purity test of water
5	Purity test of Ethyl alcohol
6	Determination of Specific gravity of a given liquid Vehicle & identifying the same.
7	Preparation of dispensing alcohol from strong alcohol.
8	Preparation of dilute alcohol from strong alcohol.
9	Trituration of drug in Old Method (One each of Class VII, VIII & IX)
10	Trituration of one drug as per HPI
11	Succussion in decimal scale from Mother Tincture (Prepared in Old Method) to 3X potency.
12	Succussion in decimal scale from Mother Tincture (Prepared in New Method) to 3X potency
13	Succussion in centesimal scale from Mother Tincture (Prepared in Old Method) to 3C
14	Succussion in centesimal scale from Mother Tincture (Prepared in New Method) to 3C
15	Conversion of Trituration to liquid potency: Decimal scale 6X to 8X potency.
16	Conversion of Trituration to liquid potency: Centesimal scale 3C to 4C potency.
17	Preparation of 0/2 potency (Solid form) (LM scale) of 1 Drug from 3 <sup>rd</sup> Degree Trituration.
18	Preparation of external applications – Lotion
19	Preparation of external applications – Glycerol
20	Preparation of external applications – Liniment
21	Preparation of external applications – Ointment
22	Writing of prescription & Dispensing the Medicine in Water with preparation of Doses

23	Writing of prescription & Dispensing the Medicine in Sugar of Milk with Preparation of Doses
24	Preparation of mother tinctures according to Old Hahnemannian method (Class I, II, III, IV)
25	Preparation of mother solutions according to Old Hahnemannian method (Class Va, Vb, VIa, VIb)

#### **Demonstration**

- 1. Homoeopathic pharmaceutical instruments and appliances with their cleaning (List provided in Appendix C)
- 2. Estimation of moisture content using water bath
- 3. Paper chromatography & TLC of any mother tincture
- 4. Laboratory methods Sublimation, distillation, decantation, filtration, crystallization.
- 5. Preparation of mother tincture Maceration and Percolation
- 6. Study & demonstration of Drug Substances (listed in Appendix B)-
- i)Macroscopic Characteristic (Any 15)
- ii) Microscopic characteristic (Any 05)
- 7. Study & demonstration of vehicles (Solid, Liquid & Semi solid as available)
- 8. Microscopical study of Trituration (One drug up to 3X Potency)
- 9. Medication of Globule (Large Scale)

#### **Activities**

- 1. Collection of 30 drugs for herbarium
- 2. Visit to a Large-scale manufacturing unit of Homoeopathic medicine (GMP compliant).
- 3. Visit to a Medicinal Plant /Botanical Garden & shall keep details Visit report
- 4. Clinical Class: Visit to IPD, OPD to take note on prescriptions as per Homoeopathic Principles &keep record

5. Visit to Hospital dispensing section to observe & gain knowledge on Dispensing techniques & Keep Records

#### Demonstration

- 1. Homoeopathic pharmaceutical instruments and appliances with their cleaning (List provided in Appendix C)-06 Hours
- 2. Estimation of moisture content using water bath-02 Hours
- 3. Paper chromatography & TLC of any mother tincture-04 Hours
- 4. Laboratory methods Sublimation, distillation, decantation, filtration, crystallization.-04 Hours
- 5. Preparation of mother tincture Maceration and Percolation- 04 Hours
- 6. Study & demonstration of Drug Substances (listed in Appendix B)- 10 Hours
- i)Macroscopic Characteristic (Any 15)
  - ii) Microscopic characteristic (Any 05)
- 7. Study & demonstration of vehicles (Solid, Liquid & Semi solid as available)- 02 Hours
- 8. Microscopical study of Trituration (One drug up to 3X Potency)-02 Hours
- 9. Medication of Globule (Large Scale)-1 Hour

Clinical Hospital Work – Maintain Record (Activities/Posting in Dispensing Section, Prescriptions based on Homoeopathic Principles in IPD/OPD) – Record to be maintained as per format in Appendix G- 20 Hours

Seminar – Maintain Record on Seminar Presentation on Topics of Homoeopathic Pharmacy as assigned-07 Hours

#### **6.TEACHING LEARNING METHODS**

The Teaching Learning activities in Homoeopathic Pharmacy requires change in structure & process in order to be more skill based & providing hands on experience. The Teaching Learning methods with respect to Homoeopathic Pharmacy may be covered in the following manner –

- a) Class Room Lectures Oral Presentation, Board Work, Power point Presentation
- b) **Tutorials** Special Classes on Doubt Clearing of Completed topics/Chapters, Special Classes for Slow Learners (involving Students in Groups comprising 5-10)
- c) **Practical Class** Demonstration & Explanation of the Experiments, this would follow by conduction of the Experiment by the students on their own, write up of the Experiment conducted
- d) **Clinical Class** Visit **to** IPD/OPD for gaining Knowledge on Prescription writing, Administration of Homoeopathic medicines based on Homoeopathic Posology, Visiting Hospital Pharmacy to observe & Gain Knowledge on dispensing techniques
- e) Field Visit Visit to One GMP Compliant Homoeopathic Manufactory.

Visit to One Medicinal Plant Garden

f) Student Activities – Working out the Assignments, Projects, Power point presentations as assigned

# 7. CONTENT MAPPING (COMPETENCY TABLE)

**Topic:** History of Pharmacy

# **Learning Outcomes (LO):**

At the end of the topic, I-BHMS student must be able to –

Interpret the difference in concept of Pharmacy in different AYUSH systems of medicine

Sr.	Generi	Subject	Miller'	Specifi	Specific	Bloom'	Guilb	Must	Teaching -	Assessment	/Evaluation	Integration
No	c Compe tencies	Area	s Level Does/ Shows how/ Knows how/ Know	c Compe tencies	Learning Objectives	s Domai n	ert's Level s	to know/ desira ble to know/ Nice to	Learning Method	Formative	Type (Sum mative	integration
								know				
Ho mU G- HP- 1.1.	Integra tion of Knowl	History of Pharmac y with emphasis to emergen ce of	Knows	Must be able to interpr et the differe nce in	Define Pharmacy	Cogniti ve	Lvel1 Recal	Must Know	1.Lecture Demonstrations  2. Small Group Discussions/  3.Peer teaching (Think-Pair-Share,	1.Structur ed Oral Examinati on 2. Tutorials	Theory & Viva Voce	Horizontal with Organon of Medicine

	1	T	1	T	1	1	T	1	1	1	
Ho mU G- HP- 1.1.	Synthe sis and applica tion of knowl edge	Homoeo pathic Pharmac y	Knows	concep t of Pharm acy among various system s of AYUSH	Define Homoeop athic Pharmacy	Level 1 Recal	Must know	Jigsaw Strategy) 4. Quiz 5. Student Seminars 6. Integrated Teaching with Organon of Medicine	3. Assignmen ts 4. MCQ's 5. 2 marks question 6.SAQ's and LAQ's		
Ho mU G- HP- 1.1.			Knows		Describe the Basic concepts of Different schools of Pharmacy with reference to AYUSH	Level 2 Unde rstan d	Nice to Know				
Ho m- UG- HP- 1.1.			Knows		Differentia te between Drug- Medicine- Remedy	Level 2 Unde rstan d	Must know				

**TOPIC:** Basics of Homoeopathic Pharmacy

**Topic:** Basics of Homoeopathic Pharmacy

# **Learning Outcomes (LO):**

At the end of the topic, I-BHMS student must be able to – Enumerate the fundamental Principles of Homoeopathic Pharmacy

Sr. No	Generi c	Subjec t Area	Miller's Level Does/	Specific Compet	Specific Learnin	Bloom'	Guilbert' s Levels	Must to	Teaching - Learning	Assessmer /Evaluatio		Integration
	Comp etenci es		Shows how/ Knows how/ Know	encies	g Objecti ves	Domain		know/ desirable to know/Nice to know	Method	Formativ e	Summati ve	Horizontal Integration with Organon of Medicine
Ho mU G- HP- 1.2.	Integr ation of Knowl edge Synthe sis and	Basics of Homoe opathi c Pharm acy	Knows	Must be able to state the fundam ental Principl es governi	1.Enum erate the Sources of Homoe opathic Pharma cy	Cogniti ve	Level 1 Recall	Must Know	1.Lecture Demonstrat ions 2. Small Group Discussions / Peer	1.Structu red Oral Examinat ion 2. Tutorials 3. Assignm	SAQ MCQ LAQ Viva Voce	

The composition of the partial of the pathic edge of the partial of the pathic edge of the partial of the parti	Но	Applic	Knows	ng	2.Explai	Level 2	Must Know	teaching	ents	
G-HP-ILO Room   Graphic Pharma   Graphic			KIIOWS			LCVCIZ	IVIUSC KITOW	_	Citto	
HP- 1.2. 2  Ho mu edge  Knows  Ho mu G- HP- 1.2. 3  Knows						Understa		,	4. MCQ's	
1.2. edge 2  Homoe opathic Pharma cy  Knows				-		nding		•		
Compatition										
Ho mu G- HP- 1.2. 3 Knows Knows Knows Wnderstanding Knows Knows Wnderstanding Wnderstanding Knows Wnderstanding Wnderstand		edge		су				Strategy)		
HO MU G-G-HP-1.2. 3 Knows Knows Cy Soope of Homoe opathic Pharma cy Socialt Ho-1.2. 4 Knows Specialt Y of Homoe opathic Pharma cy Socialt Y of Homoe opathic Pharma cy Specialt Y of Homoe Opathic Pharma cy Special Y of Homoe Opath	2				- I			3. Quiz	question	
Ho mU Scope of Homoe opathic Pharma cy  Ho m- UG HP- 1.2. 3  Knows Must Know Scope of Homoe opathic Pharma cy  Knows Must Know It Level 2 It Must Know It Must Kn									6.SAO's	
Ho mU G-HP-L2. 3					су					
mU G- HP- 1.2. 3  Knows  Knows	Но	-	Knows	1	3 Illustr	Level 2	Must Know	Seminars		
G-HP-1.2. 3 Knows A.Descr ibe the Original ity & Specialt Homoe opathic Pharma cy  Ho m-UG HP-1.2. 4 Knows S.Specialt Y of Homoe opathic Pharma cy  Knows S.Specialt			KIIOWS			Leverz	Widst Kilow	5 Guest	L IQ 3	
HP- 1.2. 3  Ho m- UG HP- 1.2. 4  Knows  Level 2  Understa nding  Must Know  Understa nding  Must Know  Level 2  Understa nding  Must Know  Level 2  Understa nding  Ho Must Know  Level 2  Understa nding						Understa				
Homoe opathic Pharma cy  Ho m- UG HP- 1.2.  4						nding				
Opathic Pharma cy  Ho M-UG HP-1.2.  4								6. Problem		
Ho m- UG HP- 1.2. 4  Ho moleon								based		
Ho m- UG HP- 1.2. 4  Ho mU Knows  Knows  A.Descr ibe the Original ity & Specialt y of Homoe opathic Pharma cy  Ho mU  Knows  Knows  A.Descr ibe the Original ity & Specialt y of Homoe opathic Pharma cy  Level 2  Understa nding  Level 2  Must Know  Level 2  Must Know  In the Indersta	3				=			learning		
Ho m- UG HP- 1.2. 4  Ho moe opathic Pharma cy  Ho mU  Knows  Knows  A.Descr ibe the Original ity & Specialt y of Homoe opathic Pharma cy  Knows  Knows  Knows  Level 2 Must Know  Understa nding  Level 2 Must Know  In the Level 2 Must Know  Level 2 Must Know  In the Level 2 Must Know										
m- UG HP- 1.2. 4  Ho move mu  Knows  Knows  Ibe the Original ity & Specialt y of Homoe opathic Pharma cy  Level 2 Must Know  Level 3 Must Know  Level 3 Must Know  Level 4 Must Know  Level 5 Must Know					СУ					
UG HP- 1.2. 4  Ho mu  Knows  Noriginal ity & Specialt y of Homoe opathic Pharma cy  Explai nother than the Independent of the I	Но	]	Knows	1	4.Descr	Level 2	Must Know	1		
UG HP- 1.2. 4  Ho mu  Knows  Noriginal ity & Specialt y of Homoe opathic Pharma cy  Explai nother than the Independent of the I	m-				ibe the					
HP- 1.2. 4  Knows  Knows  Knows  Specialt y of Homoe opathic Pharma cy  Level 2  Must Know  In the  Homoe MU										
1.2. 4 Specialt y of Homoe opathic Pharma cy  Knows  5.Explai n the Understa						nding				
4					•					
Homoe opathic Pharma cy  Ho Knows 5.Explai n the Level 2 Must Know Independent of the Ind										
Ho mU Knows 5.Explai n the Level 2 Must Know Independent of the Lindersta					-					
Ho Knows 5.Explai Level 2 Must Know IIndersta										
Ho mU S.Explai Level 2 Must Know In the Lindersta					- I					
Ho Knows 5.Explai Level 2 Must Know IIndersta										
mU n the Lindersta					Су					
mU n the Lindersta	Но		Knows		5.Explai	Level 2	Must Know	]		
G- Understa Understa   Understa	mU					I I a da a c				
						Understa				

HP-			mental	nding			
1.2.			Principl				
5			es,				
			Laws &				
			Doctrin				
			es				
			related				
			to				
			Homoe				
			opathic				
			Pharma				
			су				

**TOPIC:** Nomenclature of Homoeopathic Medicines

# **Learning Outcomes (LO):**

At the end of the topic, I-BHMS student must be able to — State the basic rules of Nomenclature of Homoeopathic medicines

.

Sr.	Generic	Subject	Mille	Specific	Specific	Bloom's	Guilber	Must	Teaching -	Assessment /Eva	aluation	
No	Compet encies	Area	r'sLe vel Does / Sho ws how/ Kno	Competencies	Learning Objectives	Domain	t's Levels	to know/ desira ble to know/	Learning Method	Formative	Summat	tive

			ws how/ Kno w					Nice to know				
Hom UG- HP- 1.3.1	Integrati on of Knowled ge  Synthesi s and Applicati	Nomencla ture of Homoeop athic Medicines	Kno ws	Must be able to describe the principles followed in nomenclature of Homoeopathic medicines	1.State the Basic rules of Nomenclatu re	Cognitive	Level 1 Recall	Must Know	1.Lecture Demonstrati ons 2. Small Group Discussions/ Peer teaching (Think-Pair-	1.Structured Oral Examination 2. Tutorials 3. Assignments 4. MCQ's 5. 2 marks	SAQ Viva Vo	ce
Hom UG- HP- 1.3.2	on of knowled ge		Kno ws		2.Describe the nomenclatu re of Homoeopat hic Drugs		Level 2 Unders tanding	Must Know	Share, Jigsaw Strategy) 3. Quiz 4. Student Seminars	question		
Hom UG- HP- 1.3.3			Kno ws		3.Enumerat e the important terminologi es related to Nomenclatu re		Level 1 Recall	Must Know	<ul><li>5. Guest</li><li>Lecture</li><li>6. Problem</li><li>based</li><li>learning</li></ul>			

Hom		Kno	4.Define		Level 1	Must			
UG-		WS	Scientific		Recall	Know			
HP-			Name		Recall				
1.3.4									
Hom		Kno	5.Define		Level 1	Must			
UG-		WS	Common		Recall	Know			
HP-			Name		Recall				
1.3.5									
Hom		Kno	6.Enumerat	Cognitive	Level 1	Must			
UG-		ws	e the		Recall	Know			
HP-			advantages		Recall				
1.3.6			of Scientific						
			Name						ļ
Hom		Kno	7.Enumerat	Cognitive	Level 1	Must			
UG-				Cognitive	reveri	know			
HP-		WS			Recall	KIIOW			
1.3.7			Advantages of Common						
1.3.7			Name						
Hom		Kno	8.Identify	Cognitive	Level 3	Nice	1.Lecture		
UG-		WS	the existing		Proble	to	Demonstrati		
HP-			anomalies		m	know	on		
1.3.8			in .		Solving		2.Procedural		
			Nomenclatu		J		Skills		
			re of				Teaching		
			Homoeopat						
			hic				3. Problem		
			Medicines				Based		
							Learning		
	1	<u> </u>	1	1		1		l l	

# **TOPIC: Pioneers of Homoeopathic Pharmacy**

# **Learning Outcomes (LO):**

At the end of the topic, I-BHMS student must be able to.-State the Contribution of various Pioneers in the field of Homoeopathic Pharmacy

Sr.	Generic	Subject	Miller	Specific		Specific	Bloom's	Guilber	Must to	Teaching -	Assessment /Eva	aluation	
No	Compet	Area	's Level Does/ Show s how/ Know s how/ Know	ies	enc	Learning Objectives	Domain	t's Levels	know/ desirable to know/Ni ce to know	Learning Method	Formative	Summ ve	ati
Ho mU G- HP- 1.4. 1	Integrati on of Knowled ge  Synthesi s and Applicati on of knowled	Pioneers of Homoeopa thic Pharmacy	Knows	Must able state contribut ns various pioneers the field Homoec thic Pharmac	of s in d of opa	1.Outline the contributions of the Pioneers of Homoeopath y in the field of Homoeopathi c Pharmacy	Cognitive	Level 1 Recall	Nice to Know	1.Lecture Demonstrations 2. Small Group Discussions/ 3. Quiz 4. Student Seminars	1.Structured Oral Examination 2. Tutorials 3. Assignments 4. MCQ's 5. 2 marks question	SAQ MCQ Viva Voce	

ge					

**TOPIC:** Pharmacopoeia

# **Learning Outcomes (LO):**

At the end of the topic, I-BHMS student must be able abide by the homoeopathic pharmacopoeia guidelines for preparation of homoeopathic medicines.

Sr.	Generic	Subject	Miller's	Specific	Specific	Bloom'	Guilbe	Must to	Teaching -	Assessn	
No	Competencies	Area	Level Does/ Shows how/ Knows how/ Know	Competenci es	Learning Objectives	S Domain	rt's levels	know/ desirabl e to know/ Nice to know	Learning Method	Forma tive	Sum mati ve
Hom UG- HP-	Problem solution	Pharmacop oeia	Knows	Must be able abide by the	1. Define Pharmacop oeia	Cogniti ve	Level 1 Recall	Must Know	1.Lecture Demonstratio ns	1.Stru cture d Oral	SAQ MC Q

1.5.1	Integration	of		homoeopat				2. Small	Exami	Viva
	Knowledge			hic				Group	nation	Voce
Hom UG- HP-			Knows	pharmacop oeia	2. Enumerate the	Level 1 Recall	Must Know	Discussions/ Peer teaching	2. Tutori	
1.5.2	· •	nd of		guidelines for preparation of homoeopat hic medicines.	different types of homoeopat hic pharmacop oeia with			(Think-Pair-Share, Jigsaw Strategy) 3. Quiz 4. Student Seminars	als 3. Assign ments 4. MCQ'	
					suitable examples.			Seminars	S	
Hom UG- HP.1. 5.3			Knows		3. Explain the different types of homoeopat hic pharmacop oeia.	Level 2 Under standi ng	Must Know		5. 2 marks questi on 6.SAQ 's, LAQ's	
Hom UG- HP- 1.5.4			Knows		4. Explain HPI in detail	Level 2 Under standi ng	Must Know		ects	
Hom UG- HP- 1.5.5			Knows		5. Explain what is monogra ph?	Level 2 Under standi	Must Know			

Hom UG- HP- 1.5.6	Knows how	guidelines versible laid down in the official homoeopat hic pharmacop oeia w.r.t. identificatio n,	ng Cogniti Level 3 Proble m solving	Nice to know	<ol> <li>Practical Demonstration</li> <li>Lecture Demonstration</li> <li>Projects</li> <li>Herbarium</li> </ol>	1. DOPS 2. OSPE 3. Evalu ation of projec	SAQ MC QLA Q Viva Voce Prac tical Exa mina
		collection, preservatio n, preparation and dispensing of homoeopat hic medicine			5. Journal	ts  4. Evalu ation of Journ al & Herba rium	tion / Chec klist
Hom UG- HP- 1.5.7	Knows how	7.Demonstr And the care, professional lism & commitmen to & follow all the guidelines	Receivi ng	Nice to know	<ol> <li>Practical Demonstration</li> <li>Lecture Demonstration</li> </ol>	1. DOPS 2. OSPE 3. Evalu ation	Viva Voce

y as given in official	<ul><li>3. Projects</li><li>4. Herbarium</li><li>5. Journal</li></ul>	of projec ts  4. Evalu ation of Journ al & Herba rium		
------------------------	---	---	--	--

**TOPIC:** Plant Kingdom

**Topic:** Plant Kingdom

## **Learning Outcomes (LO):**

At the end of the topic, I-BHMS student must be able to identify the plant drug substances for preparation of homoeopathic medicines.

Sr	·.	Generic	Subject	Miller's	Specific	Specific	Bloom'	Guilber	Must to	Teaching -	Assessment	
N	0	Competencies	Area	Level Does/	Competenci	Learning	S	t's		Learning	/Evaluation	

			Shows how/ Knows how/ Know	es	Objectives	Domai n	Levels	know/ desirabl e to know/ Nice to know	Method	Formative	Type Summ ative
Hom UG- HP- 1.6.1	Integration of knowledge  Synthesis and application of knowledge  Classroom to herbarium and lab transfer	Sources of drugs	Knows	Must be able to identify the plant drug substances for preparation of homoeopat hic medicines.	1. Explain in detail the part used and drug prepared from plant kingdom	Cognitiv e	Level 2 Unders tanding	Must know	1.Lecture Demonstr ations 2. Small Group Discussion s/ Peer teaching (Think- Pair- Share,	1.Structured Oral Examination 2. Tutorials 3. Assignments 4. MCQ's 5. 2 marks question 6.SAQ's and	SAQ MCQ LAQ Viva Voce
Hom UG- HP- 1.6.2			Knows		2. List any 4 examples of drugs from particular part of the plant.		Level 1 Recall	Must know	Jigsaw Strategy) 3. Quiz 4. Student Seminars 5. Guest	LAQ's 7. Herbarium	

Hom UG- HP- 1.6.3	Knows	3. Explain classification of plant kingdom with examples.		Level 2 Unders tanding	Must know	Lecture 6. Problem based learning 7. Flipped Classroom 8. Videos			
Hom UG- HP- 1.6.4	Does	4. Identify the plant and its parts used for preparation of homoeopath ic medicines	Cogniti	Level 3 Proble m solving	Must know	1.Practical Demonstr ation 2.Procedu ral Skills Teaching 3. Herbarium 4. Experienti al learning (Projects)	1.DOPS 2. OSPE 3. Herbarium	Prac cal Exa nati	mi
Hom UG- HP- 1.6.5	Shows how	5.Demonstra te care while identifying & collecting the plant drug	Affectiv e	Level 1 Receivi	Nice to know	1.Lecture Demonstr ation 2. Problem Based	1.Herbarium	Prac cal Exa nati	mi

		substances		Learning		
					1	

**TOPIC:** Animal Kingdom

### **Learning Outcomes (LO):**

At the end of the topic, I-BHMS student must be able to identify the animal drug substances for preparation of homoeopathic medicines.

Ī	Sr.	Generic	Subject	Miller's	Specific	Specific	Bloom'	Guilber	Must to	Teaching -	Assessment		
	No	Competencies	Area	Level	Compete	Learnin	sDoma	t's	know/	Learning	/Evaluation		
				Does/ Shows	ncies	g Objecti	in	Levels	desirable	Method	Formative		mat
				how/ Knows how/ Know		ves			to know/Nice to			ive	
									know				

			1	1	1			1	ı		1	т		
Hom	Integration	of					1.	Cogniti	Level 2		1.Lecture	1.Structure	LAQ	I
UG-	knowledge		of drugs	Knows	able t	to	Explain	ve	Underst	Must know	Demonstra	d Oral	SAQ	4
HP-				KIIOWS	identify		the part		anding	WIUST KITOW	tions	Examinatio	MC	Į.
1.7.1					the		used		anding		2. Small	n	Viva	
	Synthesis	and			animal		and				Group	2. Tutorials	Voc	e
	application	of			drug		drug				Discussions			
	knowledge				substan		prepare				/	3.		
					es fo	or	d from				<b>'</b>	Assignment		
					prepara	ti	animal				Peer	S		
	Classroom	to			on o	of	kingdo				teaching	4. MCQ's		
	herbarium	and			homoeo	р	m				(Think-	4. WCQ 3		
	lab transfer				athic						Pair-Share,	5. 2 marks		
					medicin	e					Jigsaw	question		
					s.						Strategy)	6.SAQ's and		
											3. Quiz	LAQ's		
											J. Quiz	LAQS		
											4. Student	7.		
											Seminars	Herbarium		
											5. Guest			
Hom				Knows			2. List		Level 1	Must Know	Lecture			
UG-							any 4		Recall					
HP-							exampl		Necali		6. Problem			
1.7.2							es of				based			
							drugs				learning			
							from				7. Flipped			
							particul				Classroom			
							ar part							
							of the				8. Videos			
							animal.							

Hom UG- HP- 1.7.3	Knows	3. Explain classific ation of animal kingdo m		Level 2 Underst anding	Must Know			
Hom UG- HP- 1.7.4	Does	4. Identify the animal and its parts used for prepara tion of homoe opathic medicin es	Cogniti	Level 3 Proble m Solving	Must Know	1.Practical Demonstra tion 2.Procedur al Skills Teaching 3. Herbarium 4. Experientia I learning (Projects)	1.DOPS 2. OSPE 3. Herbarium	Practical Examina tion
Hom UG- HP- 1.7.5	Shows	5.Demo nstrate care while identify ing & collecti ng the animal	Affecti ve	Level 1 Receivi ng	Must Know	1.Lecture Demonstra tion 2. Problem Based Learning	1.Herbariu m	Practical Examina tion

		drug				
		substan				
		ces				

**TOPIC:** Mineral Kingdom

## **Learning Outcomes (LO):**

At the end of the topic, I-BHMS student must be able to identify the mineral drug substances for preparation of homoeopathic medicines.

Sr.	Generic	Subject	Miller's	Specific	Specific	Bloom's	Guilbert's	Must to	Teaching -	Assessmen	nt
No	Competencies	Area	Level	Compet	Learning	Domain	Levels	know/	Learning	/Evaluation	า
			Does/ Shows how/ Knows how/ Know	encies	Objectives			desirable to know/Nic e to know	Method	Formativ e	Summa tive
Hom UG- HP- 1.8.1	Integration of knowledge  Synthesis and application of knowledge	Sources of drugs	Knows	Must be able to identify the mineral drug substan ces for prepara	1. Explain the part used and drug prepared from mineral kingdom	Cognitiv e	Level 2 Understa nding	Must know	1.Lecture Demonstr ations 2. Small Group Discussion s/ Peer	1.Structu red Oral Examinat ion 2. Tutorials 3. Assignme	LAQ SAQ MCQ Viva Voce
	Classroom to			tion of					teaching		

Hom UG-HP- 1.8.2 Hom UG-HP- 1.8.3 Hom UG-HP- 1.8.4 Hom UG-HP- 1.8.5 Hom UG-HP- 1.8.5 Hom UG-HP- 1.8.5 Hom UG-HP- 1.8.6 Hom UG-HP- 1.8.7 Hom UG-HP- 1.8.8 Hom UG-HP- 1.8.9 Hom UG				-1.	1	1	1	ı	1,, ,		
Hom UG-HP-1.8.3  Hom UG-HP-1.8.4  Hom UG-HP-1.8.4  Hom UG-HP-1.8.4  Hom UG-HP-1.8.5  Hom UG-HP-1.8.4  Hom UG-HP-1.8.5  Hom UG-HP-1.8.6  Hom UG-HP-1.8.6  Hom UG-HP-1.8.6  Hom UG-HP-1.8.7  Hom UG-HP-1.8.8  Hom uG		herbarium and		homoeo					(Think-	nts	
Hom UG-HP-1.8.3  Does  Does  A Identify the mineral kingdom  Does  A Identify the mineral was for preparation of homoeopat hid medicines  Hom used		lab transfer								4 MCO's	
Hom UG-HP- 1.8.2 Hom UG-HP- 1.8.3 Hom UG-HP- 1.8.3 Hom UG-HP- 1.8.3 Hom UG-HP- 1.8.4 Hom UG-HP- 1.8.3 Hom UG-HP- 1.8.4 Hom UG-HP- 1.8.4 Hom UG-HP- 1.8.4 Hom UG-HP- 1.8.5 Hom UG-HP- 1.8.4 Hom UG-HP- 1.8.5 Hom UG-HP- 1.8.6 Hom UG-HP- 1.8.7 Hom UG-HP- 1.8.8 Hom UG-HP- 1.8.9 Hom Interal Used for preparation of homoeopat hic medicines Hom UG-HP- 1.8.9 Hom UG-HP- 1.8.1 Hom UG-HP- 1.8.2 Hom UG-HP- 1.8.3 Hom UG-HP- Herbariu Must Hom Now Herbariu Must Hecull Hom Now Hom				medicin					Share,	4. WICQ 3	
Hom UG-HP-1.8.2  Hom UG-HP-1.8.3  Hom UG-HP-1.8.3  Hom UG-HP-1.8.4  Hom UG-HP-1.8.5  Hom Wast Know Problem Solving Now Problem solvi				es.					Jigsaw	5. 2	
UG-HP- 1.8.2  Hom UG-HP- 1.8.3  Hom UG-HP- 1.8.4  Hom UG-HP- 1.8.4  Hom UG-HP- 1.8.4  Hom UG-HP- 1.8.5  Hom UG-HP- 1.8.4  Hom UG-HP- 1.8.4  Hom UG-HP- 1.8.5  Hom UG-HP- 1.8.4  Hom UG-HP- 1.8.5  A lidentify the mineral used for preparation of homoeopat hic medicines  Hom UG-HP- 1.8.4  Hom UG-HP- 1.8.4  Hom UG-HP- 1.8.4  Hom UG-HP- 1.8.5  Hom UG-HP- 1.8.6  Hom UG-HP- 1.8.6  Hom UG-HP- 1.8.7  Herbariu m  Hom UG-HP- HP- 1.8.6  Hom UG-HP- 1.8.7  Level 2 Understa nding  Hom Wust Rnow Based learning 7. Flipped Classroom 8. Videos  2. OSPE al Examination 2. Procedural Skills Teaching 3. Herbariu m  Herbariu m  Herbariu m  Herbariu m  Herbariu m						-			Strategy)	marks	
Hom UG-HP-1.8.3  Hom UG-HP-1.8.4  Hom UG-HP-1.8.4  Hom UG-HP-1.8.4  Hom UG-HP-1.8.4  Hom UG-HP-1.8.5  Hom UG-HP-1.8.4  Hom UG-HP-1.8.4  Hom UG-HP-1.8.5  Hom UG-HP-1.8.4  Hom UG-HP-1.8.5  Hom UG-HP-1.8.5  Hom UG-HP-1.8.4  Hom UG-HP-1.8.4  Hom UG-HP-1.8.5  Hom UG-HP-1.8.5  Hom UG-HP-1.8.6  Hom UG			Knows		•		Level 1		2.0.	question	
18.2   Hom UG-HP-1.8.3   Hom UG-HP-1.8.4   Hom U					· ·		Recall	know	3. Quiz		
Hom UG-HP-1.8.3    Does   Does   Does   Does   Hom HP-1.8.4   Herbariu medicines   Homology   Homol					_		recan		4. Student		
Hom UG-HP-1.8.3    Hom UG-HP-1.8.3   Level 2   Level 2   Level 3	1.8.2										
Hom UG-HP- 1.8.3  Does  Does  4. Identify the mineral used for preparation of homoeopat hic medicines  Does  4. Identify the mineral used for preparation of medicines  Does  A. Identify the mineral used for preparation of medicines  Does  A. Identify the mineral used for preparation of medicines  Does  A. Identify the mineral used for preparation of medicines  Does  A. Identify the mineral used for preparation of homoeopat hic medicines  Does  A. Identify the mineral used for preparation of homoeopat hic medicines  Does  A. Identify the mineral used for preparation of homoeopat hic medicines  Problem solving  A. Identify the mineral used for preparation of homoeopat hic medicines  A. Identify the mineral used for preparation of homoeopat hic medicines  A. Identify the mineral used for preparation of homoeopat hic medicines  A. Identify the mineral used for preparation of homoeopat hic medicines  A. Identify the mineral used for preparation of homoeopat hic medicines  A. Identify the mineral used for preparation of homoeopat hic medicines  A. Identify the mineral used for preparation of homoeopat hic medicines  A. Identify the mineral used for preparation of homoeopat hic medicines  A. Identify the mineral used for preparation of homoeopat hic medicines  A. Identify the mineral used for preparation of homoeopat hic medicines  A. Identify the mineral used for preparation of homoeopat hic medicines  A. Identify the mineral used for preparation of homoeopat hic medicines  A. Identify the mineral used for preparation of homoeopat hic medicines  A. Identify the mineral used for preparation of homoeopat hic mine											
Hom UG-HP- 1.8.3  Hom UG-HP- 1.8.3  Does  Hom UG-HP- 1.8.4  Does  A. Identify the mineral used for preparation of homoeopat hic medicines  Hom used for preparation of homoeopat hic medicines  Herbariu m  Herbariu m  Herbariu m  A. Identify the mineral used for preparation of homoeopat hic medicines  Herbariu m  A. Identify the mineral used for preparation of homoeopat hic medicines  Herbariu m  A. Identify the mineral used for preparation of homoeopat hic medicines  Herbariu m  A. Identify the mineral used for preparation of homoeopat hic medicines  Problem know Demonstr ation  2. OSPE ale Now Now Demonstr ation  2. Procedu ral Skills Teaching  3. Herbariu m  A. Herbariu m					minerals.				5. Guest	7	
Hom UG-HP- 1.8.3  Hom UG-HP- 1.8.4  Hom UG-HP- 1.8.5  Hom UG-Lassroom a. Videos  How Understa nding  7. Flipped Classroom a. Videos  8. Videos  1.DOPS 2. OSPE al- 2. Al- 3. Herbariu m									Lecture		
Hom UG-HP- 1.8.3  Hom UG-HP- 1.8.3  Does  Does  Does  Does  A. Identify the mineral used for preparation of homoeopat hic medicines  Must know Demonstr ation  Problem based learning  7. Flipped Classroom  8. Videos  Problem solving  1.BOPS  2. OSPE Examing  3. Herbariu m  All Demonstr ation  2. Procedu ral Skills Teaching  3. Herbariu m  Problem based learning  7. Flipped Classroom  8. Videos  1.BOPS  Practical know  1.Bops									6		
UG-HP- 1.8.3  Does  4. Identify the mineral used for preparation of homoeopat hic medicines  Does  4. Identify the mineral used for preparation of homoeopat hic medicines  Does  4. Identify the mineral used for preparation of homoeopat hic medicines  Does  4. Identify the mineral used for preparation of homoeopat hic medicines  Does  4. Identify the mineral used for preparation of homoeopat hic medicines  Does  4. Identify the mineral used for preparation of homoeopat hic medicines  Does  4. Identify the mineral used for preparation of homoeopat hic medicines  Problem solving  1. DOPS  2. OSPE all Examination  Herbariu m	Hom		Knows		3. Explain		Level 2	Must		III	
HP- 1.8.3  HOM UG- HP- 1.8.4  HOM UG- HP- Nome IGA  HOM INDER  INDOPS INDO					•						
1.8.3  Hom UG-HP- 1.8.4  Level 3 Problem solving  Does  4. Identify the mineral used for preparation of homoeopat hic medicines  Most Problem solving  A. Identify the mineral used for preparation of homoeopat hic medicines  Now Problem solving  A. Identify the mineral used for preparation of homoeopat hic medicines  Now Problem solving  A. Identify the mineral used for preparation of homoeopat hic medicines  Now Problem solving  A. Identify the mineral used for preparation of homoeopat hic medicines  Now Problem solving  3. Herbariu m  Herbariu m											
Hom UG-HP- 1.8.4  Hom location							nding		learning		
Hom UG-HP- 1.8.4  Hom hom of homoeopat hic medicines  Hom medicines  Hom hom logs with the mineral used for preparation of homoeopat hic medicines  Hom hom logs with the mineral used for preparation of homoeopat hic medicines  Hom homoeopat hic medicines  Classroom and logs with the mineral used for preparation of homoeopat hic medicines  Level 3 know Demonstr ation 2. Procedu ral Skills Teaching at herbariu medicines  Herbariu medicines	1.0.5								7. Flipped		
Hom UG- HP- 1.8.4  Hom UG- HP- 1.8.4  Hom UG- HP- 1.8.4  Hom UG- HP- 1.8.4  Hom UG- HP- 1.8.4  Hom UG- HP- 1.8.4  Hom ineral used for preparation of homoeopat hic medicines  Hom UG- HP- 1.8.4  Hom ineral used for preparation of homoeopat hic medicines  Hom ineral used for preparation of homoeopat hic medicines  Hom III III III III III III III III III I					Kingdom						
Hom UG-HP- 1.8.4  Hom log-log-log-log-log-log-log-log-log-log-									C1033100111		
UG- HP- 1.8.4  1									8. Videos		
UG- HP- 1.8.4  1	Hom		Does		4. Identify	Cognitiv	Level 3	Must	1.Practical	1.DOPS	Practic
HP- 1.8.4  Used for preparation of homoeopat hic medicines  Used for preparation of homoeopat hic medicines  Used for preparation of homoeopat hic medicines  Problem solving  3. Herbariu m  Herbariu m	UG-				=	_		know	Demonstr		
1.8.4 preparation of homoeopat hic medicines solving 2.Procedu ral Skills Teaching 3. Herbariu m							Problem			2. OSPE	
of homoeopat hic medicines  2.Procedu ral Skills Teaching  3. Herbariu m							solving		ation	2	
homoeopat hic medicines  3. Herbariu m	1.8.4								2.Procedu		ation
homoeopat hic medicines 3. Herbariu m									ral Skills		
medicines  3. Herbariu m					-					m	
Herbariu m					hic				Teaching		
					medicines				3.		
									Herbariu		
									1		
									4.		

								Experienti al learning (Projects)		
Hom UG- HP- 1.8.5		Shows how	5.Demonstr ate care while identifying &collecting the mineral drug substances	Affectiv e	Level 1 Receiving	Nice know	to	1.Lecture Demonstr ation 2. Problem Based Learning	1.Herbari um	Practic al Examin ation

**TOPIC:** Sarcodes & Nosodes

### **Learning Outcomes (LO):**

At the end of the topic, I-BHMS student must be able to identify the drug substances from nosodes and sarcodes for preparation of homoeopathic medicines.

Sr.	Generic	Subj	Miller'	Specific	Specific	Bloom's	Guilbert's	Must to	Teaching -	Assessment
No	Compet	ect	S	Competenc	Learning		Levels		Learning	/Evaluation

	encies	Area	Level	ies	Objectives	Domain		know/	Method	Formative	Summativ
			Does/					desirabl			е
			Shows								
			how/					е			
			Knows					to			
			how/					know/Ni			
			Know					ce to			
								know			
								KIIOW			
Но	Integrat	Sour	Knows	Must be	1. Explain	Cognitiv	Level 2	Must	1.Lecture	1.Structure	LAQ SAQ
mU	ion of	ces		able to	the part	е	Understand	know	Demonstrati	d Oral	MCQ Viva
G-	knowle	of		identify the	used and		ing		ons	Examinatio	Voce
HP-	dge	drug		drug	drug		8		2. Small	n	
1.9.		S		substances	prepared				Group	2. Tutorials	
1				from	from				Discussions/		
	Synthesi			nosodes	nosodes					3.	
	s and			and					Peer	Assignment	
	applicat			sarcodes					teaching	S	
	ion of			for					(Think-Pair-	4. MCQ's	
	knowle			preparatio					Share,		
	dge			n of					Jigsaw	5. 2 marks	
				homoeopat					Strategy)	question	
Но			Knows	hic	2. List any 4		Level 1	Must	3. Quiz	6.SAQ's and	
mU	Classroo			medicines	examples of		Recall	Know		LAQ's	
G-	m to				drugs from				4. Student		
HP-	herbari				prepared				Seminars		
1.9.	um and				from				5. Guest		
2	lab				nosodes.				Lecture		
	transfer										
									6. Problem		

Ho mU G- HP 1.9.	Knows	3. Explain classificatio n of nosodes.	Level 2 Understand ing	Must Know	based learning 7. Flipped Classroom 8. Videos
Ho mU G- HP 1.9.	Knows	4.Explain the part used and drug prepared from sarcodes	Level 2 Understand ing	Must Know	
Ho mU G- HP 1.9.	Knows	5. List any 4 examples of drugs from prepared from sarcodes	Level 1 Recall	Must Know	
Ho mU G- HP 1.9.	Knows	6. Explain classification of sarcodes	Level 2 Understand ing	Must Know	

Но	Does	7. Identify	Cognitiv	Level 3	Must	1.Practical	1.DOPS	Practical
mU G- HP 1.9.		the sarcode/nos ode used for preparation of homoeopat hic medicines	е	Problem solving	know	Demonstrati on  2.Procedural Skills Teaching  3. Experiential learning (Projects)	2. OSPE	Examinati on
Ho mU G- HP 1.9. 8	Shows	8.Demonstr ate care while identifying & collecting the diseased part/secreti on for preparation of nosodes&he althy part/secreti on for preparation of sarcodes	Affectiv e	Level 1 Receiving	Nice to know	1.Lecture Demonstrati on 2. Problem Based Learning	1.Monogra phs	Practical Examinati on

**TOPIC:** Imponderabilia

# **Learning Outcomes (LO):**

At the end of the topic, I-BHMS student must be able to identify the drug substances from energy sources for preparation of homoeopathic medicines.

Sr. No	Generic Competencies	Subject Area	Miller's Level Does/	Specific Competen cies	Specific Learning Objectives	Bloom's Domain	Guilber t's Levels	Must to know/	Teaching - Learning	Assessme /Evaluatio	
			Shows how/ Knows how/ Know	cies	Objectives		Levels	desirable to know/Nic e to know	Method	Formativ e	Sumn ative
Hom UG- HP- 1.10. 1	Integration of knowledge  Synthesis and application of knowledge	Sources of drugs	Knows	Must be able to identify the drug substance s from energy sources for	1. Explain the energy used and drug prepared from imponderab ilia	Cogniti ve	Level 2 Underst anding	Must know	1.Lecture Demonst rations  2. Small Group Discussio ns/ Peer	1.Struct ured Oral Examina tion 2. Tutorials 3.	LAQ SAQ MCQ Viva Voce
	Classroom to herbarium and lab transfer			preparatio n of homoeop athic medicines					teaching (Think- Pair- Share, Jigsaw	Assignm ents 4. MCQ's	
Hom UG- HP- 1.10.			Knows		2. List any 4 examples of drugs prepared from		Level 1 Recall	Must know	Strategy) 3. Quiz 4.	5. 2 marks question 6.SAQ's	

Hom UG- HP-	Knows	imponderab ilia  3. Explain classificatio n of	Level 2 Underst	Must know	Student Seminars  5. Guest Lecture  6. Problem based	and LAQ's	
1.10.		imponderab ilia.	unumg		Iearning 7. Flipped Classroo m 8. Videos		
Hom UG- HP- 1.10. 4	Does	4. Identify the energy source used for preparation of homoeopat hic medicines from imponderab ilia	Proble m solving	Nice to know	1.Practic al Demonst ration 2.Proced ural Skills Teaching 3. Experient ial learning (Projects)	1.DOPS 2. OSPE	Prac al Exan natio
Hom UG- HP- 1.10.	Shows how	5.Demonstr Affect ate care & e commitmen t while	Receivi	Nice to know	1.Lecture Demonst ration	1.Monog raphs	Prac al Exar

5	identifying	2.	natio
	& collecting	Problem	
	the	Based	
	different	Learning	
	energy		
	sources for		
	preparation		
	of		
	imponderab		
	ilia		
	medicines		

**TOPIC:** Allersodes, Isodes, Synthetic Source

### **Learning Outcomes (LO):**

At the end of the topic, I-BHMS student must be able to identify drug substances of Allersodes, Isodes, Synthetic Source for preparation of homoeopathic medicines.

Sr.	Generic	Subject	Miller's	Specific	Specific	Bloom's	Guilbert'	Must to	Teaching -	Asses		
No	Competencies	Area	Level Does/ Shows how/ Knows how/ Know	Competenci es	Learning Objectives	Domain	s Levels	know/ desirable to know/Ni	Learning Method	smen t /Eval uatio n		
								ce to		Form	S	umi

		F	<del></del>	Τ	T .	1		Τ.	T		+
								know		ative	ative
Hom UG- HP- 1.11. 1	Integration of knowledge  Synthesis and application of knowledge  Classroom to herbarium and lab transfer	Sources of drugs	Knows	Must be able to identify drug substances of Allersodes, Synthetic Source for preparation of	1. Explain the preparation of Allersodes, Isodes& Synthetic Source of homoeopat hic medicines	Cognitiv e	Level 2 Underst anding	know Must know	1.Lecture Demonstr ations 2. Small Group Discussio ns/ Peer teaching (Think- Pair-	1.Str uctur ed Oral Exam inatio n 2. Tutor ials 3.	ative  LAQ  SAQ  MCQ  Viva  Voce
				homoeopat hic medicines.					Share, Jigsaw Strategy) 3. Quiz 4. Student Seminars	Assig nmen ts 4. MCQ' s	
Hom UG- HP- 1.11. 2			Knows		2. List any 4 examples of drugs prepared from Allersodes, Isodes&Synt hetic Source		Level 1 Recall	Must know	5. Guest Lecture 6. Problem based learning 7. Flipped Classroo	5. 2 mark s quest ion 6.SA Q's and LAQ's	

							m		
							8. Videos		
Hom		Does	3. Identify	Cognitiv	Level 3	Must		Proje	Practi
UG-		DOCS	the part	e		know	Experienti	cts	a
HP-			used for	C	Problem		al		Exami
1.11.			preparation		solving		learning		natior
3			of				(Projects)		
			Allersodes,						
			Isodes&						
			Synthetic						
			Source.						
Hom		Shows how	4.Demonstr	Affectiv	Level 1	Nice to	1.Lecture	1.Proj	Practi
UG-			ate care &	e	Receivin	know	Demonstr	ects	a
HP-			commitmen		g		ation		Exami
1.11.			t while		δ		2.		nation
4			identifying				Problem		
			& collecting				Based		
			the different				Learning		
			parts for						
			preparation of						
			Allersodes,						
			Isodes&						
			Synthetic						
			Source						

1	
1	
1	
1	
1	
1	
1	
1	
1	
1	
1	
1	

**TOPIC:** Collection of Drug Substances

## **Learning Outcomes (LO):**

At the end of the topic, I-BHMS student must be able to collect a particular part/ source for preparation of homoeopathic drugs

	Sr.	Generic	Subject Area	Miller's	Specific	Specific	Bloom's	Guilbert's	Must to	Teachin	Assessr	nent
	No	Competencies		Level	Competen	Learning	Domain	Levels	know/	g -	/Evalua	tion
				Does/ Shows how/ Knows how/ Know	cies	Objectives	Domain		desirable to know/Ni ce to know	Learning Method	Form ative	Su mm ativ e
•	Ho mU	Problem solution	Collection of Drug	Knows	Must be able to			Level 2 Understa	Must know	1.Lectur	1.Stru cture	LAQ SAQ
	G-		Substances		collect a	rules for		nding		Demons	d Oral	MC
	HP-				particular	collecting		Hullig		trations	Exami	Q
	1.1				part/	drugs from					natio	Viv

2.1	Integration of		source for	vegetable			2. Small	n	а
	Knowledge		preparation of homoeopathic	kingdom.			Group Discussi ons/	2. Tutori als	Voc e
	Synthesis and application of knowledge		drugs				Peer teaching (Think- Pair-	3. Assig nmen ts	
G- HP- 1.1 2.2	Classroom to Herbarium transfer  Practice based learning and improvement	Knows		2. Explain the particular rules for collecting drugs from vegetable kingdom.	Level 2 Understa nding	Must know	Share, Jigsaw Strategy ) 3. Quiz 4. Student Seminar s	4. MCQ's 5. 2 marks quest ion 6.SAQ	
Ho mU G- HP- 1.1 2.3		Knows		3. Explain the general rules for collecting drugs from animal kingdom.	Level 2 Understa nding	Must know	5. Guest Lecture 6. Flipped Classroo m	's and LAQ's 7.Proj ects 8. Herba rium	
Ho mU G- HP-		Knows		4. Explain the particular rules for	Level 2 Understa nding	Must know	- 7. Videos		

1.1			collecting						
2.4			drugs from						
			animal						
			kingdom.						
Но		Knows	5. Explain		Level 2	Must			
mU			the			know			
G-			collection of		Understa				
HP-			drugs from		nding				
1.1			mineral						
2.5			kingdom.						
Но	-	Knows	6. Explain		Level 2	Must	1		
mU		Kilows	collection of			know			
G-			Nosodes,		Understa	KIIOW			
HP-			Sarcodes		nding				
1.1			&Impondera						
2.6			bilia.						
2.0			billa.						
Но		Does	7. Collect the	Psycho	Level 3	Must	1.	1.DO	Pra
mU		5003	drugs from	motor	LCVCIS	know	Practical	PS	ctic
G-			vegetable	1110101	Automati	KIIOW	Demons	13	al
HP-			kingdom.		on		trations	2.OSP	Exa
1.1			Kiliguoiii.				trations	E	min
2.7							2.	3.Proj	atio
2.7							Procedu		
							ral Skills	ects	n
							Teachin	4.Spo	
							g	tting	

		T	T		1	1	Т	T	ı	_
								3.Experi	5.Her	
								ential	bariu	
								Learning	m.	
Но		Does		8. Collect		Level 3	Must			
mU				the drugs			know			
G-				from animal		Automati				
HP-				kingdom.		on				
1.1				S						
2.8										
Но		Does		9. Collect the		Level 2	Must			
mU				drugs from		Control	know			
G-				nosodes,		Control				
HP.				sarcodes &						
1.1				imponderabil						
2.9				ia.						
Но		Shows how		10.	Affectiv	Level 1	Nice to	1.	Herba	Pra
mU		3110 003 110 00		Demonstrate	e	LCVCII	know	Lecture	rium	ctic
G-				care &		Recieving	KIIOW	Demons	IIIIII	al
HP-				commitment				tration		Exa
1.1				while				וומנוטוו		min
2.1				collecting				2.		atio
0				drugs from				Practical		
0								Demons		n
				vegetable				tration		
				kingdom,						
				animal						Ц

	1	1		kingdom,				1	
	'	1		nosodes,				1	
	'	1		sarcodes				1	1
	'	1		kingdom, nosodes, sarcodes &impondera				1	
	'	1		bilia.				1	
	1	1	1			İ		1 1	.

**TOPIC:** Cleansing

# Learning Outcomes (LO):

At the end of the topic, I-BHMS student must be able to clean the instruments used in homoeopathic pharmaceutical laboratory.

Sr.	Generic	Subje	Miller's	Specific	Specific	Bloom'	Guilbert's	Must to	Teaching -	Assessment /E	valuati	on
No	Competenci es	ct Area	Level Does/ Shows how/ Knows how/	Compete ncies	Learning Objectives	s Domain	Levels	know/ desirable to know/Ni ce	Learning Method	Formative	Sumr ve	nati

			Know					toknow				
Hom UG- HP- 1.13. 1 Hom UG- HP- 1.13. 2 Hom UG- HP.1	Integration of Knowledge  Synthesis and application of knowledge  Classroom to Lab transfer  Practice based learning and	Clean sing of instru ments	Knows	Must be able to clean the instrume nts used in homoeo pathic pharmac eutical laborator y	<ol> <li>Explain the cleansing of mortar &amp; pestle.</li> <li>Explain the cleansing of spatula.</li> <li>Explain the cleansing of spatula.</li> </ol>	Cogniti	Level 2 Understand ing  Level 2 Understand ing  Level 2 Understand ing	Must know  Must know  Must know	1.Lecture Demonstrations  2. Small Group Discussions/ Peer teaching (Think-Pair-Share, Jigsaw Strategy)  3. Quiz  4. Student Seminars  5. Flipped Classroom	1.Structured Oral Examination 2. Tutorials 3. Assignments 4. MCQ's 5. 2 marks question 6.SAQ's 7.Projects	LAQ S MCQ Viva Voce	6AQ
Hom UG- HP.1 .13.4	improveme nt		Knows		4. Explain the cleansing of corks.		Level 2 Understand ing	Must know				

Hom	Knows	5. Explain		Level 2	Must				
UG- HP.1		the cleansing of wooden		Understand ing	know				
		instruments .					1,000		
Hom UG-		6. Demonstrat	Psycho motor	Level 3		1. Practical Demonstrati	1.DOPS	Pract Exam	
HP.1	Does	e the	motor	Automatism	Must	ons	2.OSPE	ion	iiiat
.13.6		cleansing of mortar & pestle.			know	2. Procedural Skills Teaching	3.Spotting		
						3.Experiential Learning			
Hom UG-	Does	7. Demonstrat		Level 3 Automatism	Must know				
HP.1 .13.7		e the cleansing of spatula							
Hom		8.		Level 3	Must				
UG-	Does	Demonstrat		Automatism	know				
HP- 1.13.		e the cleansing of							
8		glass bottles.							

Hom UG- HP- 1.13. 9	Does	9. Demonstrat e the cleansing of corks.		Level 3 Automatism	Must know			
Hom UG- HP- 1.13. 10	Does	10. Demonstrat e the cleansing of wooden instruments .		Level 3 Automatism	Must know			
Hom UG- HP- 1.13. 11	Shows how	11. Demonstrat e care while cleaning the instruments .	Affectiv e	Level 1 Receiving	Nice to know	<ol> <li>Lecture         Demonstrati         on     </li> <li>Practical         Demonstrati         on     </li> </ol>	1.DOPS 2.OSPE	Practical Examinat ion

**TOPIC:** Lab Methods

### **Learning Outcomes (LO):**

At the end of the topic, I-BHMS student must be able to select and apply a particular lab method for preparation of homoeopathic medicines and for standardization of homoeopathic medicines.

Sr.	Generic	Subject	Miller'	Specific	Specific	Bloom'	Guilbe	Must to	Teaching -	Assessmer	ıt

no	Competencies	Area	S	Competenci	Learning	S	rt's	know/	Learning	/Evaluatio	on
			Level Does/ Shows how/ Knows how/ Know	es	Objectives	Domain	Levels	desirable to know/Ni ce to know	Method	Formati ve	Sur ma e
Hom .UG- HP- 1.14. 1	Problem solution  Integration of Knowledge  Synthesis and application of knowledge  Classroom to lab transfer  Practice based learning and improvement	Lab Methods	Knows	Must be able to select and apply a particular lab method for preparation of homoeopat hic medicines and for standardiza tion of homoeopat hic medicines	1. Define decantation, sedimentation, filteration, distillation, sublimation, precipitation.	Cognitiv	Level 1 Recall	Must	1.Lecture Demonstrations  2. Small Group Discussions/ Peer teaching (Think-Pair-Share, Jigsaw Strategy)  3. Quiz  4. Student Seminars  5. Guest Lecture  6. Problem	1.Struct ured Oral Examina tion 2. Tutorials 3. Assignm ents 4. MCQ's 5. 2 marks question 6.SAQ's and LAQ's	LAC SAC Wiv Voc

					learning 7. Flipped Classroom 8. Videos	ts
Hom .UG- HP- 1.14. 2	Knows	2. Explain the process of decantation,s edimentation, filteration, distillation, sublimation,p recipitation	Level 2 Under standi ng	Must know		
Hom .UG- HP- 1.14.	Knows	3.Explain the homoeopathi c uses of decantatio, sedimentatio n,filteration,d istillation,sub limation,prec ipitation	Level 2 Under standi ng	Must know		

Hom	Knows	4.Differentiat		Level	Must			
.UG-	how	e between		2	know			
HP-		filteration&di		Under				
1.14.		stillation		standi				
4				ng				
Hom	Knows	5.		Level	Must			
.UG-	how	Differentiate		2	know			
HP-		between		Under				
1.14.		decantation		standi				
5		&filteration		ng				
		in detail.						
Hom	Does	6. Select a		Level	Desirabl			
.UG-		specific lab		3	e to			
HP-		method		Proble	know			
1.14.		according to		m				
6		the different		solvin				
		processes		g				
		carried out in						
		a						
		homoeopathi c pharmacy						
		laboratory.						
Hom	Does	7.	Psycho	Level	Desirabl	1. Practical	1.DOPS	Prac
.UG-		Demonstrate	motor	2	e to	Demonstrati	2.OSPE	cal
HP-		the processes		Contr	know	ons		Exai
1.14.		decantation,s		ol		2.	3.Projec	nati
7		edimentation				Procedural	ts	n
		,filteration,di				Skills		
		stillation,subl						

		imation,preci pitation				Teaching 3.Experienti al Learning		
Hom .UG- HP- 1.14. 8	Shows	8.Demonstra te care & commitment while carrying out the different lab methods involved in preparation of homoeopathi c medicine	Affectiv e	Level 1 Receiv ing	Nice to know	<ol> <li>Lecture         Demonstrati             on     </li> <li>Practical         Demonstrati             on     </li> </ol>	DOPS	Practical Examination

**TOPIC:** Standardization of homoeopathic drugs

## **Learning Outcomes (LO):**

At the end of the topic, I-BHMS student must be able to select an appropriate method for standardization of homoeopathic medicines.

Sr. No	Generic	Subject	Miller's	Specific	Specific	Bloom'	Guilbert's	Must to	Teaching -	Assessme	nt
	Competencies	Area	Level	Compete	Learning	sDomai	Levels	know/ Learning		/Evaluatio	n
				ncies	Objectives	l n		KIIOW/	Method		
			Does/	110103	0.0,000.100			desirable	- Wicking a	Formati	Sum
			Shows					desirable		ve	mativ
			how/					to			e
			Knows					know/Nic			

			how/ Know					e to know			
Hom. UG- HP- 1.15. 1	Integration of Knowledge  Synthesis and application of knowledge  Classroom to Lab	Standardiz ation of homoeopa thic drugs	Knows	Must be able to select an appropri ate method for standardi zation of homoeop athic	1. Enumerate the different methods of standardizat ion of homoeopat hic drugs	Cogniti ve	Level 1 Recall	Must know	1.Lecture Demonstr ations  2. Small Group Discussion s/ Peer teaching (Think-	1.Struct ured Oral Examina tion 2. Tutorials 3. Assignm ents	LAQ SAQ MCQ Viva Voce
Hom. UG- HP- 1.15. 2 Hom. UG- HP-	transfer  Practice based learning and improvement		Knows	medicine s	2. Explain the individual method of standardizat ion of homoeopat hic drugs  3. Estimate the standard of	Cogniti ve	Level 2 Understanding  Level 2 Control	Must know  Desirable to know	Pair- Share, Jigsaw Strategy) 3. Quiz 4. Student Seminars 5. Flipped Classroom 6. Videos	4. MCQ's 5. 2 marks question 6.SAQ's 7.Projec ts	
1.15.					homoeopat hic drugs before and after manufacturi						

		ng of homoeopat hic medicines.	Psycho motor					
Hom. UG- HP- 1.15. 4	Does	4. Demonstrat e the microscopic study of triturations.	Psycho motor	Level 2 Control	Desirable to know	1. Practical Demonstr ations 2. Procedura I Skills Teaching	1.Spotti ng 2. Assessm ent of research project output	Viva Voce & Practi ca Exami natio ns
Hom. UG- HP- 1.15. 5	Does	5. Identify the drug specimen applying the different methods of standardizat ion of drugs	Cogniti ve	Level 3 Problem solving	Desirable to know	3.Experien tial Learning 4. Research Projects		
Hom. UG- HP- 1.15. 6	Does	6. Analyze the purity of mother tincture with the help of HPTLC.	Psycho motor	Level 2 Control	Nice to know			

Hom. UG- HP- 1.15. 7	Does	7. Analyze and identify the purity of mother substances and dilutions with the help of U.V. Spectroscop y.	Psycho motor		Nice know	to			
Hom. UG- HP- 1.15. 8	Shows	8.Abide by the rules of standardizat ion of homoeopat hic drugs laid down by HPL & value the importance of genuine medicine in homoeopat hic practice.		Level 3 Internalizing	Nice know	to	<ol> <li>Lecture         Demonstration     </li> <li>Monographs</li> </ol>	Herbariu m Assignm ents	va cce

**TOPIC:** Quality Control in Homoeopathy

# **Learning Outcomes (LO):**

At the end of the topic, I-BHMS student must be able to conduct the quality control as per the appropriate method

Sr. No	Generic	Subject	Miller's	Specific	Specific	Bloom's	Guilbert	Must to	Teachin	Assessment	1
--------	---------	---------	----------	----------	----------	---------	----------	---------	---------	------------	---

	Competencies	Area	Level	Competen	Learning	Domain	's Levels	know/	g-	/Evaluati	on	ı
			Does/ Shows how/ Knows how/ Know	cies	Objectives			desirable to know/Ni ce to know	Learning Method	Formati ve	Sum ativ	
Hom.U G-HP- 1.16.1	Integration of Knowledge  Synthesis and application of knowledge	Quality control	Knows	Must be able to conduct the quality control as per the appropria te method	1. Enumerate the different methods of quality control.	Cognitiv e	Level 1 Recall	Must Know	1.Lectur e Demons trations 2. Small Group Discussi ons/ Peer	1.Struct ured Oral Examin ation 2. Tutorial s 3.	LAC SAC MC Viva Voc	Q a
Hom.U G-HP- 1.16.2	Classroom to Lab transfer  Practice based learning and improvement		Knows		2. Explain the individual method of quality control in homoeopath y		Level 2 Underst anding	Must Know	teaching (Think- Pair- Share, Jigsaw Strategy ) 3. Quiz 4.	Assign ments 4. MCQ's 5. 2 marks questio n		

Hom.U	Knows	3.Explain the	Level 2	Must	Student	6.SAQ's	
	KIIOWS		Level 2			0.3AQ S	
G-HP-		functions of	Underst	Know	Seminar	7.Proje	
1.16.3		HPL in	anding		S	cts	
		quality	anding		5.	CLS	
		control of					
		Homoeopath			Flipped		
		ic medicines			Classroo		
		10 111 001 0111 00			m		
					6.		
1111	Dana	4. Determine	11 2	Niaa ka	Videos		
Hom.U	Does	4. Determine	Level 3	Nice to	videos		
G-HP-		the quality of	Problem	Know			
1.16.4		homoeopath	solving				
		ic medicine	30171118				
		based on the					
		parameters					
		of quality					
		control					
		33776.3					
Hom.U	Does	5. Take part	Level 3	Nice to			
G-HP-		in the		Know			
1.16.5		process of	Problem				
		quality	solving				
		control at					
		different					
		stages of					
		preparation					
		of					
		homoeopath					
		ic medicines.					

Hom.U G-HP- 1.16.6  D  Oes, shows how  D  G. Psycho Level 2 Control  Nice to Know  Nice to Know  Trations  2.	2.Asses	Viva Voce &
1.16.6  Oes, shows how  the microscopic study of  Control Nice to Know trations	2.Asses	&
shows how study of Know Crations	2.Asses	
Procedural Skill Teaching	of the outcom s e of researc h	Practic al Exami nation s
3.Exper	S	
Hom.U 7. Analyze Level 2 Nice to Learning	,	
G-HP- the purity of Control know		
mother 4.		
tinctures Research with the help		
with the help of HPTLC.		
Hom.U Does 8. Analyze Nice to		
G-HP- and identify know		
1.16.8 the purity of		
mother mother		
substances		
and dilutions		
with the help		
of U.V.		
Spectroscop		
y.		

Hom.U	Does	9.Abide by	Affectiv	Level 3	Nice to	1.	SAQ/LA	Practic
G-HP-		the rules of	e	Internali	know	Lecture	Q	al
1.16.9		quality control laid down by HPL & value the importance of genuine medicine in homoeopath ic practice.		zing		Demons tration  2. Practical Demons tration	Project s Assign ments	Exami nation

**TOPIC:** Ideal Laboratory

# Learning Outcomes (LO):

At the end of the topic, I-BHMS student must be able to –

1. State the pre requisites of an Ideal Laboratory

Sr.	Generic	Subject	Miller's	Specific	Specific	Bloom's	Guilbert's	Must to	Teaching -	Assessn	nen <mark>t</mark>
No	Competenci	Area	Level Does/	•	Learning	Domain	Levels	know/	Learning	/Evalua	tion
	es		Shows how/ Knows how/ Know	es	Objectives			desirable to know/Nice	Method	Form ative	Summ at ve
								to			

**TOPIC:** Industrial Pharmacy

#### **Learning Outcomes (LO):**

At the end of the topic, I-BHMS student must be able to – Correlate the provisions under Schedule M-I

Sr. No	Generic	Subject	Miller's	Specific	Specific	Bloom's	Guilbert's	Must to	Teaching -	Assessn	nent
	Competenc	Area	Level	Competenc	Learning	Domain	Levels	know/	Learning	/Evalua	ti <mark>on</mark>
	ies		Does/	ies	Objectives				Method	Forma	Sum
			Shows					desirable		tive	mati
			how/					to		LIVE	ve
			Knows					know/Nice			
			how/ Know					to			
								know			
Hom.	Integration	Industri	Knows	Must be	Explain in	Cognitive	Level 2	Must Know	1.Lecture	1.Stru	LAQ
UG-	of	al		able to	details the		11		Demonstra	ctured	SAQ
HP-	Knowledge	Pharmac		correlate	provisions		Understan		tions	Oral	MCC
1.18. 1	Cumthagia	У		provisions related to Schedule	under Schedule M-		ding		2. Small Group	Exami nation	Viva Voce
	Synthesis and			M1	'				Discussions	2.	
	Application			IVII					/	Tutori	
	of								Peer	als	
	knowledge								teaching	3.	
									(Think-Pair-	Assign	
									Share,	ments	
									Jigsaw		

					Strate	egy)	4.	
Probler	n				3.	Field	MCQ's	
formula	atio				Visit		5. 2	
Classes							marks	
Classro							questi	
to	lab						on	
transfe	r							
							6.SAQ'	
							s and	
							LAQ's	

**TOPIC:** Homoeopathic Vehicles-Solid Vehicles

**Topic:**Homoeopathic Vehicles- Solid Vehicles

#### **Learning Outcomes (LO):**

At the end of the topic, I-BHMS student must be able to select a particular solid vehicle for preparation or dispensing of homoeopathic medicines.

Sr.	Generic	Subject	Miller's Level	Specific	Specific	Bloom's	Guilbert's	Must to	Teaching -	Assess	
No	Competenci es	Area	Does/ Shows how/ Knows how/ Know		Learning Objectives	Domain	Levels	know/ desirab	Learning Method	ment /Evalua tion	
								le to know/ Nice to		Formati ve	imm ive

								know				
Hom .UG- HP- 1.19. 1 Hom .UG- HP- 1.19. 2	Integration of Knowledge  Synthesis and Application of knowledge	Vehicles	Knows	Selecting a particular solid vehicle for preparation or dispensing of homoeopath ic medicines.	1.Define Vehicle  2.Classify vehicles in detail	Cognitive	Level 1 Recall  Level 2 Understan ding	Must Know Must Know	1.Lecture Demonstrat ions  2. Small Group Discussions / Peer teaching (Think-Pair- Share, Jigsaw Strategy)	1.Struct ured Oral Examin ation 2. Tutorial s 3. Assign ments 4. MCQ's	SA M Vi	Q Q Q ICQ iva oce
Hom .UG- HP- 1.19.	formulation  Classroom  to lab  transfer		Knows		3. List all the solid vehicles used in homoeopath y.		Level 1 Recall	Must Know	<ul><li>3. Quiz</li><li>4. Student Seminars</li><li>5. Guest Lecture</li><li>6. Problem</li></ul>	5. 2 marks questio n 6.SAQ's and LAQ's		
Hom .UG- HP- 1.19. 4			Knows		4. Explain the preparation, properties and uses of all solid vehicles		Level 2 Understan ding	Must Know	- based learning			

Hom .UG- HP- 1.19.	Does	5. Select the appropriate solid vehicle for dispensing of homoeopath ic medicines, potentisation etc.	Level 3 Problem Solving	Must Know			
Hom .UG- HP- 1.19.	Does	6. Identify Cognition the given solid vehicle.	Problem solving	Must Know	1.Practical Demonstrat ion 2.Procedura I Skills Teaching 3. Problem Based Learning	1.DOPS 2. OSPE	Practi cal Exami nation
Hom .UG- HP- 1.19.	Show How	7. Estimate Psycho the purity of the given solid vehicle.	m Level 2 Control	Must know	4. Experiential learning		
Hom .UG- HP- 1.19.	Shows how	8.Demonstra Affective te care and commitment in preparing & dispensing of homoeopath	re Level 1  Receiving	Nice to know	1.Lecture Demonstrat ion 2.Procedura I Skills Teaching	1.DOPS	Practi cal Exami nation

ic medicine	3. Problem
with	Based
accuracy	Learning
	4.
	Experiential
	learning
	5. Practical
	Demonstrat
	ion

**TOPIC:** Homoeopathic Vehicles-Liquid Vehicles

## **Learning Outcomes (LO):**

At the end of the topic, I-BHMS student must be able to select a particular liquid vehicle for preparation or dispensing of homoeopathic medicines.

Sr. No	Generic	Subject	Miller's	Specific	Specific	Bloom'	Guilbert's	Must to	Teaching -	Assessme	ent	
	Competenci	Area	Level	Competen cies	Learning Objective	S	Levels	know/	Learning Method	/Evaluati	on	
	es		Does/ Shows	cies	Objective	Domai		desirable	Method	Formati	Sumn	na
			how/			n		to		ve	tive	
			Knows					know/Nic				
			how/ Know					e to				
			KIIOW					know				
Hom.U	Integration	Vehicles	Knows	Selecting	1.Define	Cogniti	Level 1	Must	1.Lecture	1.Struct	LAQ	
G-HP-	of			а	Vehicle	ve		Know	Demonstrat	ured	SAQ	
1		1				1	l			1		

1.20.1	Knowledge		particular		Recall		ions	Oral	MCQ
			liquid				2. Small	Examin	Viva
			vehicle for				Group	ation	Voce
Hom.U	Synthesis	Knows	preparatio	2.Classify	Level 2	Must	Discussions/	2.	
G-HP-	and		n or	vehicles in	Understan	Know		Tutorial	
1.20.2	Application		dispensing	detail	ding		Peer	S	
	of Lagrangian		of		_		teaching	2	
Hom.U	knowledge	Knows	homoeop athic	3. List all	Level 1	Must	(Think-Pair-	3.	
G-HP-			medicines	the liquid	Recall	Know	Share,	Assign ments	
1.20.3			medicines	vehicles used in			Jigsaw Strategy)	mems	
			•	homoeop			Strategy	4.	
	Problem			athy.			3. Quiz	MCQ's	
	formulation			-			4. Student	5. 2	
Hom.U		Knows		4. Explain	Level 2	Must	Seminars	marks	
G-HP-				the	Understan	Know	<b>.</b>	questio	
1.20.4	Classroom			preparatio	ding		5. Guest	n	
	to lab transfer			n,			Lecture	6.SAQ's	
	tiansiei			properties and uses			6. Problem	and	
				of all			based	LAQ's	
				liquid			learning	L (Q 3	
				vehicles.					
							-		
Hom.U		Does		5. Select	Level 3	Must			
G-HP-				the	Problem	Know			
1.20.5				appropriat	solving				
				e liquid vehicle for					
				dispensing					
				of					
				homoeop					

		athic medicines , potentisat ion etc.						
Hom.U G-HP- 1.20.6	Shows	6. Identify the given liquid vehicle.	Cogniti ve Psycho	Level 2 Understan ding  Level 2	Must Know	1.Practical Demonstrat ion 2.Procedura I Skills Teaching 3. Problem Based Learning	1.DOPS 2. OSPE	Practic al Examin ation
G-HP- 1.20.7	how	Estimate the purity of the given liquid vehicle.	motor	Control	Know	4. Experiential learning		
Hom.U G-HP- 1.20.8	Shows how	8.Demons trate care and commitm ent in preparing & dispensing of	Affecti ve	Level 1 Receiving	Nice Know	to 1.Lecture Demonstrat ion 2.Procedura I Skills Teaching 3. Problem Based	1.DOPS	Practic al Examin ation

homoeop athic medicine with	Learning  4. Experiential
accuracy	learning  5. Practical  Demonstrat  ion

**TOPIC:** Homoeopathic Vehicles- Semi-solid Vehicles

#### **Learning Outcomes (LO):**

At the end of the topic, I-BHMS student must be able to select a particular semi solid vehicle for preparation or dispensing of homoeopathic medicines.

Sr.	Generi	Subje	Miller	Specific	Specific	Learning	Bloom's	Guilbert's	Must to	Teaching -	Assessment /E	valuati	on
No	c Comp etenci es	ct Area	's Level Does/ Show s how/ Know s how/ Know	Competen	Objective	S	Domain	Levels	know/ desirable to know/Ni ce to know	Learning Method	Formative	Sumr ve	nati
Hom	Integr	Semis	Know	Selecting	1.Define \	/ehicle	Cognitive	Level 1	Must	1.Lecture	1.Structured	LAQ	SAQ
.UG-	ation	olid	S	а				Recall	know	Demonstrati	Oral	MCQ	
HP-	of	Vehicl		particular				Necan		ons	Examination	Viva	
1.21.	Knowl			semi-solid								viva	

1	edge	es		vehicle for				2. Small	2. Tutorials	Voce	
				preparatio n or				Group Discussions/	3. Assignments		
Hom .UG- HP- 1.21. 2	Synthe sis and Applic ation of knowl		Know s how	dispensing of homoeop athic medicines.	2.Classify vehicles	Level 2 Understand ing	Must Know	Peer teaching (Think-Pair- Share, Jigsaw Strategy) 3. Quiz	<ul><li>4. MCQ's</li><li>5. 2 marks question</li><li>6.SAQ's and</li></ul>		
Hom .UG- HP- 1.21.	edge Proble m		Know s		3. List all the semi- solid vehicles used in homoeopathy	Level 1 Recall	Must Know	4. Student Seminars 5. Guest Lecture 6. Problem	LAQ's		
Hom .UG- HP- 1.21. 4	formul ation Classr oom to lab transf		Know s		4. Explain the preparation, properties and uses of all semi-solid vehicles	Level 2 Understand ing	Must Know	based learning			
Hom .UG- HP- 1.21. 5	er		Does		5. Select the appropriate semisolid vehicle for dispensing of homoeopathic medicines, preparation of	Level 3 Problem solving	Must Know				

		external applications etc.						
Hom	Does	6. Identify the	Cognitive	Level 3	Must	1.Practical	1.DOPS	Practical
.UG-		given semi-solid		Problem	know	Demonstrati	2. OSPE	Examinat
HP-		vehicle.		solving		on	2. USPE	ion
1.21.				30171116		2.Procedural		
6						Skills		
						Teaching		
						3. Problem		
Hom	Show	7. Estimate the	Psychom	Level 2	Must	Based		
.UG-	s how	purity of the given	otor	Control	know	Learning		
HP-		semisolid vehicle.						
1.21.						4. Experiential		
7						learning		
						_		
Hom	Show	8.Demonstrate	Affective	Level 1	Nice to		1.DOPS	Practical
.UG- HP-	s how	care and		Receiving	know	Demonstrati		Examinat
1.21.		commitment in preparing &				on		ion
8		dispensing of				2.Procedural		
		homoeopathic				Skills		
		medicine with				Teaching		
		accuracy				3. Problem		
						Based		
						Learning		
						4.		
						Experiential		
						learning		
			]	]				

_								
						5. Practical		
		]				Demonstrati		ı ı
		]				on		
		i '	1 '					

**TOPIC:** External Applications

#### **Learning Outcomes (LO):**

At the end of the topic, I-BHMS student must be able to prescribe an external application as per the scope and limitations of external applications.

Sr.	Generic	Subject	Miller's	Specific	Specific	Bloom'sD	Guilber	Must to	Teaching -	Assessment		Integra
No	Competenc	Area	Level	Compet	Learnin	omain	t's	know/	Learning	/Evaluation		tion
	ies		Does/ Shows how/ Knows how/ Know	encies	g Objecti ves		levels	desirable to know/ Nice to know	Method	Formative	Summ ative	
Hom	Integration	External	Knows	Prescri	1.Defin	Cognitive	Level 1	Must	1.Lecture	1.Structure	LAQ	Horizor
.UG-	of	Applicatio		bing an	е		Recall	know	Demonstratio	d Oral	SAQ	ta with
HP-	Knowledge	ns		externa	Externa		Necali		ns	Examinatio	MCQ	Organo
1.22.				1	1				2. Small	n	Viva	n o
1				applica	Applica				Group	2. Tutorials	Voce	Medici
	Synthesis			tion as	tion				Discussions/	2. 14(0) (4)		ne
	and			per its					2.30000.01.07	3.		
	Application			scope					Peer teaching	Assignment		

				<del>                                     </del>	1		ı		ı	1	$\longrightarrow$	<del></del>
	of		and					(Think-Pair-	S			
	knowledge		limitati ons					Share, Jigsaw Strategy)	4. MCQ's			
								3. Quiz	5. 2 marks question			
	Problem formulatio n							<ul><li>4. Student</li><li>Seminars</li><li>5. Guest</li><li>Lecture</li></ul>	6.SAQ's and LAQ's			
Hom	Classroom	Knows		2. List		Level 1	Must	6. Problem				
.UG- HP- 1.22.	to lab transfer			all the externa		Recall	know	learning 7. Flipped				
2				applica tions				Classroom				
				used in								
				homoe								
				opathy								
Hom		Knows		3.		Level 2	Must					
.UG- HP-				Explain the		Underst	know					
1.22.				prepara		anding						
3				tion								
				&uses								
				of								
				specific homoe								

Hom .UG- HP- 1.22. 4		Knows	opathic externa I applica tions  4. Explain the scope & limitati ons of externa I applica tions in homoe opathy	Level 2 Underst anding	Must		
Hom .UG- HP- 1.22. 5		Does	5. Select the approp riate vehicle for	Level 3 Proble m solving	Must know		

Hom .UG- HP- 1.22. 6		Does	prepara tion of externa I applica tion.  6. Select approp riate externa I applica tion as per the case.		Level 3 Proble m solving	Desirab le to Know				
Hom .UG- HP.1 .22.7		Does Shows how	7.Demo nstrate the prepara tion of specific externa I applica tions	Psychomo tor	Level 2 Control	Must know	1.Practical Demonstratio n 2.Procedural Skills Teaching 3. Problem Based Learning 4. Experiential learning	1.DOPS 2. OSPE	Practi cal Exami nation	

Hom	Shows how	8.Demo	Affective	Level 1	Nice to	1.Lecture	1.DOPS	Practi	
.UG-	Desc	nstrate		Dogobal	know	Demonstratio		cal	
HP-	Does	care		Receivi		n		Exami	
1.22.		and		ng		2.Procedural		nation	
8		commit				Skills			
		ment in				Teaching			
		prepari				reaching			
		ng &				3. Problem			
		dispens				Based			
		ing of				Learning			
		externa				4.			
		1				Experiential			
		applica				learning			
		tion				_			
		with				5. Practical			
		accurac				Demonstratio			
		У				n			
				L				1 1	

## **TOPIC:** Metrology

#### **Learning Outcomes (LO):**

At the end of the topic, I-BHMS student must be able to select appropriate scale of measurement in the homoeopathic pharmaceutical laboratory.

Sr.	Generic	Subj	Miller's	Specific	Specific	Bloom's	Guilbe	Must to	Teaching - Learning	Assessment /	Evaluati	on
	Competen	ect Are a	Level Does/ Shows how/ Knows how/ Know	Competen	Learning Objectives	Domain	rt's levels	know/ desirabl e to know/N ice to know	Method	Formative	Summa	ative
.UG- HP- 1.23. 1	Problem solving  Problem formulation  Integration of Knowledge	Met rolo gy	Knows	Must be able to select appropriat e scale of measurem ent in the homoeopa thic pharmace utical laboratory .	1. Enumerate the different scales of measureme nt for preparation of homoeopat hic drugs	Cognitiv e	Level 1 Recall	Must Know	1.Lecture Demonstrations  2. Small Group Discussions/ Peer teaching (Think-Pair-Share, Jigsaw Strategy)  3. Quiz  4. Problem Based learning  5. Flipped classroom	1.Structure d Oral Examinatio n 2. Tutorials 3. Assignment s 4. MCQ's 5. 2 marks question	LAQ MCQ Voce	SAC

	<del> </del>				_	,		
Hom .UG- HP- 1.23. 2	Synthesis and applicatio n of knowledg e  Classroom to lab tyransfer	Knows	2. Explain the different scales of measureme	Level 2 Under standi	Must Know		6.SAQ's	
Hom .UG- HP- 1.23.		Does	nt for preparation of homoeopat hic drugs  3. Select appropriate scale of measureme nt for	Level 3 Proble	Must Know			

		preparation of homoeopat hic drugs.		m solvin g					
Hom .UG- HP- 1.23. 4	Does	4. Measure the given quantity of the drug substance and vehicle for preparation of homoeopat hic medicines	Psychom otor	Level 3 Auto matis m	Must	Practical Demonstrations     Experiential Learning	1. DOPS 2. OSPE	Viva Vo Practic Examir ns	al
Hom .UG- HP- 1.23. 5	Shows	5.Show care while measuring the drugs for preparation of homoeopat hic medicines	Affective	Level 2 Respo nd	Must know	<ol> <li>Lecture Demonstration</li> <li>Practical Demonstration</li> </ol>	1.DOPS 2.OSPE	Theory Practic Examir n	al

**TOPIC:** Potentisation& Scales of Potentisation

## **Learning Outcomes (LO):** At the end of the topic of Potentisation, I-BHMS student must be able to:

1. Prepare Homoeopathic Medicine according to the scale.

Sr.	Generic	Subj	Miller's	Specific	Specific	Bloom's	Guilbert's	Must to	Teaching -	Assessment		Integrat	tion
No	Compe	ect	Level	Compet	Learning	Domain	level	know/	Learning	/Evaluation			
	- tencies	Area	Does/ Shows how/ Knows how/ Know	encies	Objectives			desirab le toknow /Nice to know	Method	Formative	Summati ve		
Hom .UG- HP- 1.24. 1	Proble m solutio n Integra tion of knowle dge Practic e based learnin	Pote ntisa tion	Knows	Prepare Homoe opathic Medici ne accordi ng to the scale.	1. Explain the different scales of potentisati on	Cogniti	Level 2 Understa nding	Must Know	1.Lecture Demonstration s 2.Practical Demostrations 3. Small Group Discussions/Pe er teaching (Think-Pair- Share, Jigsaw Strategy) 4. Problem based learning	1.Structur ed Oral Examinati on 2. Tutorials 3. Assignmen ts 4. SAQ's and LAQ's 5. MCQ's	LAQ SAQ MCQ Viva Voce	Organo Medicir Horizon	ie-

								T		
Hom	g and	Knows	2.Explain	Cogniti	Level 2	Must	5. Student	1.Structur		
.UG- HP- 1.24.	improv ement		the two methods potentisati	ve	Understa nding	Know	Seminars  6.Study Tour	ed Oral Examinati on		
2	Synthes is and Applica tion of knowle dge		on				(Field Visit) 7. Integrated Teaching with Organon of Medicine	<ol> <li>Tutorials</li> <li>Assignments</li> <li>SAQ's and LAQ's</li> <li>MCQ's</li> </ol>		
Hom .UG- HP- 1.24. 3	om to lab  Practic al skills	Does	3. Select the appropriate vehicles used for potentisati on.	ve	Level 3 Problem solving	Must Know		DOPS Spotting OSPE Assessme nt of PBL		
Hom .UG- HP- 1.24. 4		Shows	4. Demonstrat e trituration according to the scale of potentisati	Psycho motor	Level 3 AUTOMA TISM	Must Know	<ol> <li>Practical Demonstration</li> <li>Procedural Skills Teaching</li> </ol>	1.DOPS 2. OSPE	Practical Examinat ion	

					•				
Hom .UG- HP- 1.24. 5	Shows	5. Demonstrate succussion according to the scal of potentisati on.	e	Level 3 AUTOMA TISM	Must Know	Practical Demonstration     Procedural Skills Teaching	1.DOPS 2. OSPE		
Hom .UG- HP- 1.24. 6	Shows	6. Prepar 8X (Lic potency from 6 (Triturate) (Jumping Potency)	) motor	Level 3 AUTOMA TISM	Must Know	<ol> <li>Practical Demonstration</li> <li>Procedural Skills Teaching</li> </ol>	1.DOPS 2. OSPE		
Hom .UG- HP- 1.24. 7	Knows how Shoes how	ate car and commitme	e e	Level 1 RECIEVIN G	Nice to Know	Practical Demonstration	DOPS	Practical Examinat ion	

**TOPIC:** Old Methods of Preparation of Homoeopathic Drugs

#### **Learning Outcomes (LO):**

At the end of the topic, I-BHMS student must be able to prepare the homoeopathic medicines as per the old methods.

Sr. No	Generic	Subject	Miller	Specif	Specific	Bloom's	Guilbert'	Must	Teaching -	Assessment /E	valuatio	n
	Competen	Area	's Level Does/ Show s how/ Know s how/ Know	ic Comp etenci es	Learning Objectives	Domain	s Levels	to know/ desira ble to know/ Nice to know	Learning Method	Formative	Summa e	ativ
Hom.U G-HP- 1.25.1	Problem solution  Integratio n of Knowledg e	Old Methods of Preparati on of Homoeo pathic Drugs	Know s	Must be able to prepa re the homo eopat hic medic ines	1. Classify Old Methods of preparation of homoeopathi c drugs.	Cognitiv e	Level 2 Understa nding	Must know	1.Lecture Demonstratio ns  2. Small Group Discussions/ Peer teaching (Think-Pair- Share, Jigsaw Strategy)	1.Structured Oral Examination 2. Tutorials 3. Assignments 4. MCQ's 5. 2 marks question	LAQ MCQ, Voce(F ative &Sumr ve)	orm

	and		as per					3. Quiz	6.SAQ's and		
	applicatio		the						LAQ's		
Hom.U	n of	Know	old	2.Enlist the		Level 1	Must	4. Student			
G-HP-	knowledg	S	meth	fundamental			know	Seminars	7.Projects		
1.25.2	e		ods	rule, drug		Recall		5. Guest			
			ous	strength,				Lecture			
				drug: vehicle				Lecture			
				ratio nature				6. Problem			
				of drug				based learning			
	Classroom			substances &				7			
	to lab			5 examples				7. Flipped			
	transfer			of drugs				Classroom			
				under Class I-							
				IX according to Old							
	Practice			to Old methods.							
	based			methous.							
	learning										
Hom.U	and	Know		3.Explain the		Level 2	Must	_			
G-HP-	improvem	S		preparation		LEVELZ	know				
1.25.3	ent	3		&potentisati		Understa	KIIOW				
1.23.3				on of mother		nding					
				tinctures							
				under class I-							
				IV according to the scale.							
				to the scale.							
Hom.U	]	Know		4.Explain the		Level 2	Must				
G-HP-		S		preparation			know				
1.25.4				&potentisati		Understa					
				on of mother		nding					
				solutions							
				under Class V							
	<u> </u>		I .	I	I	I	I	1	1	1	

		& VI according to the scale.						
Hom.U G-HP- 1.25.5	s S	5.Explain the potentisation of mother substances under Class VII, VIII & IX according to the scale.		Level 2 Understa nding	Must know			
Hom.U G-HP- 1.25.6	Does	6. Demonstrate the preparation of mother tincture under Class I-IV according to Old Methods.	Psycho motor	Level 3 Automati sm	Must know	<ol> <li>Practical Demonstrations</li> <li>Procedural Skills Teaching</li> </ol>	1. DOPS 2. OSPE	Practical Examinati on
Hom.U G- HP.1.25 .7	Does	7. Demonstrate the potentisation of mother tincture		Level 3 Automati sm	Must Know			

		according to the scale under Class I-				
		to Old Method.				
Hom.U G-HP- 1.25.8	Does	8.Demonstra te the preparation of mother solution under Class V-VI according to Old Methods.	Level 3 Automati sm	Must Know		
Hom.U G-HP- 1.25.9	Does	9. Demonstrate the potentisation of mother solution according to the scale under Class V-VI according to Old Method	Level 3 Automati sm	Must Know		

Hom.U G-HP- 1.25.10	Does	10. Demonstrate the potentisation of mother substances according to the scale under Class VII, VIII & IX according to Old Method.		Level 3 Automati sm	Must Know			
Hom.U G-HP- 1.25.11	Show s how	11.Demonstr ate care & commitment in preparing and dispensing medicine with accuracy according to the scale and Class under Old Methods.	Affective	Level 1 Receiving	Nice to know	1. Practical Demonstration	DOPS	Practical Examinati on

**TOPIC:** New Methods of Preparation of Homoeopathic Drugs

### **Learning Outcomes (LO):**

At the end of the topic, I-BHMS student must be able to prepare the homoeopathic medicines as per the new methods.

Sr. No	Generic	Subject	Miller	Specific	Specific	Bloom's	Guilbert's	Must to	Teaching -	Assessment /Eva	aluation
	Compet	Area	's Level Does/ Show s how/ Know s how/ Know	Compete	Learning Objectives	Domain	Levels	know/ desirabl e to know/ Nice to know	Learning Method	Formative	Summati ve
HomU G-HP- 1.26.1	Proble m solutio n Integra tion of Knowle dge	New Method s of Preparat ion of Homoeo pathic Drugs	Know s	Must be able to prepare the homoeop athic medicine s as per the new methods	1. Define Maceration & Percolation .	Cognitive	Level 1 Recall	Must know	1.Lecture Demonstrations  2. Small Group Discussions/ Peer teaching (Think-Pair- Share, Jigsaw Strategy)  3. Quiz	1.Structured Oral Examination 2. Tutorials 3. Assignments 4. MCQ's 5. 2 marks question	LAQ SAQ MCQ Viva Voce
HomU G-HP- 1.26.2	Synthes is and applica		Know s		2. Explain the process of maceration		Level 2 Understan ding	Must know	<ul><li>4. Student</li><li>Seminars</li><li>5. Guest Lecture</li></ul>	6.SAQ's and LAQ's 7.Projects	
HomU G-HP- 1.26.3	tion of knowle dge		Know s		3.Explain the process of percolation		Level 2 Understan ding	Must know	<ul><li>6. Problem</li><li>based learning</li><li>7. Flipped</li></ul>		

11	T	Т.		4 D:CC		112	N.A	Classes			
HomU			Know	4.Differenti		Level 2	Must	Classroom			
G-HP- 1.26.4	Classro om to lab transfe r		s how	ate between old & new methods of preparatio n of homoeopa thic drugs		Understan ding	know	8. Videos			
HomU	Dractic		Know	5.Differenti		Level 2	Must				
G-HP- 1.26.5	Practic e based learnin g and improv ement	S	s how	ate between maceration & percolation in detail.		Understan ding	know				
HomU	-	ŀ	Know	6. Define		Recall	Must				
G-HP-		9	s	the terms-			know				
1.26.6				merc, magma, menstrum							
HomU G-HP- 1.26.7		1	Does	7. Demonstra te the preparatio n of mother tincture by maceration	Psychom otor	Level 2 Control	Must know	<ol> <li>Practical Demonstrations</li> <li>Procedural Skills Teaching</li> <li>Experiential Learning</li> </ol>	1.DOPS 2.OSPE 3.Projects	Pract Exam ion	

		Т		T					
HomU G-HP- 1.26.8 HomU G-HP- 1.26.9	oes	8.Demonst rate the preparation of mother solution by percolation  9. Demonstrate the towing of a percolator		Level 2 Control  Level 2 Control	Must know  Desirab le to know				
HomU G-HP- 1.26.1 0	how	10.Demons trate care &commitm ent in preparing of homoeopa thic medicine with accuracy according	Affective	Level 1 Receiving	Nice to know	<ol> <li>Lecture         Demonstration     </li> <li>Practical         Demonstration     </li> </ol>	DOPS	Pract Exam ion	

			to the New				
			methods of				
			preparatio				
			n of				
			homoeopa				
			homoeopa thic drugs.				

**TOPIC:** Pharmaconomy

#### **Learning Outcomes (LO):**

At the end of the topic, I-BHMS student must be able to select appropriate route of administration of homoeopathic medicines.

Sr. No	Generic	Subject	Mille	Specific	Specific	Bloom's	Guilbert's	Must to	Teaching -	Assessment /Ev	aluation	
	Compet	Area	r's Level Does / Show s how/ Know s how/ Know	Compete	Learning Objectives	Domain	Levels	know/ desirabl e to know/ Nice to know	Learning Method	Formative	Summe	ativ

	1		1	1	T	1	Т	T	1	T	T	
Hom	Integrat	Pharmac	Know	Must be	1. Enumerate	_	Level 1	Must	1.Lecture	1.Structured	· ·	SAQ
UG-	ion of	onomy	S	able to	the different	е	Recall	know	Demonstration	Oral	MCQ	Viva
HP-	Knowle			select	routes of				S	Examination	Voce	
1.27.	dge			appropria	administratio				2. Small Group	2. Tutorials		
1				te route	n of				Discussions/			
				of	homoeopathi				·	3. Assignments		
	Synthes			administr	c medicines.				Peer teaching	4. MCQ's		
	is and			ation of					(Think-Pair-			
	applicat			homoeop	0.5.1.1.1	1			Share, Jigsaw	5. 2 marks		
Hom	ion of			athic	2. Explain the		Level 2	Must	Strategy)	question		
UG-	knowle		Know	medicines	different		Understand	know	3. Quiz	6.SAQ's		
HP- 1.27.	dge		S		routes of administratio		ing		4. Flipped	7 Drojects		
2					n of				Classroom	7.Projects		
2					homoeopathi				Classicolli			
					c medicines.				6. Videos			
	Classro				e medicines.							
	om to											
Hom	Clinic		Does		3. Select	-		Desirab				
UG-	transfer				appropriate		_	le to				
HP-					route of		Level 3	know				
1.27.					administratio		Problem					
3					n of		solving					
					homoeopathi							
					c medicines							
					according to							
					the case							
Hom					4. Administer	Psychom	Level 2	Nice to	1. Practical	1. Case based	Viva V	осе
UG-					the	otor	Control	know	Demonstration	assessment		
HP-					homoeopathi		Control		s	2. Simulation		
	l		<u> </u>					I		2. Jiiilalation		

		T							
1.27.	Show	c medicine				2.Experiential	based		
4	S	through				Learning	assessment		
	how	appropriate route of administratio n according to the case				<ul><li>3. Projects</li><li>4. Case based Learning</li><li>5. Simulation teaching</li></ul>			
Hom	Know	5.Show care	Affective L	evel 2	Desirab	1. Lecture	Case based	LAQ	SAQ
UG- HP- 1.27. 5	s how	while administerin g homoeopathi c medicine via different routes	R	Respond	le to know	Demonstration  2. Practical Demonstration  3. Case based Learning  4. Simulation teaching	assessment  2. Simulation based assessment	MCQ Voce	Viva

**TOPIC:** Dispensing of Medicines

#### **Learning Outcomes (LO):**

At the end of the topic, I-BHMS student must be to

- 1. Select an appropriate dosage form for dispensing of homoeopathic medicines.
- 2. Dispense homoeopathic medicine to patients.

Sr.	Generic	Subje	Miller's	Specific	Specific	Bloom's	Guilbert's	Must to	Teaching -	Assessment /	Evalua	tion
No	Compete	ct Area	Level Does/ Shows how/ Knows how/ Know	Competen	Learning Objectives	Domain	Levels	know/ desirabl e to know/ Nice to know	Learning Method	Formative	Summ e	nativ
Hom UG- HP- 1.28. 1	Problem solution  Integratio n of Knowledg e  Synthesis and Applicatio	Dispe nsing of homo eopat hic medic ines	Knows	Select an appropriat e dosage form for dispensing of homoeopa thic medicines.	1. Enumerate the different dosage forms.	Cognitiv e	Level 1 Recall	Must	1.Lecture Demonstration s 2. Small Group Discussions/ Peer teaching (Think-Pair- Share, Jigsaw Strategy) 3. Quiz 4. Student	1.Structure d Oral Examinatio n 2. Tutorials 3. Assignment s 4. MCQ's 5. 2 marks question	LAQ MCQ Voce	SAC
Hom UG- HP- 1.28. 2	n of Knowledg e		Knows	homoeopa thic medicine to patients	2. Explain the various modes for dispensing of solid dosage forms		Level 2 Understand ing	Must know	Seminars  5. Problem based learning  6. Guest Lecture	6.SAQ's and LAQ's		

I I a ma	ODD /IDD /	l/m marrie	2 Fundation the		Lavel 2	NALLOS				
Hom UG-	OPD/IPD/ Pharmacy	Knows	3. Explain the various modes		Level 2	Must know				
HP-	transfer		for dispensing		Understand					
1.28.			of liquid		ing					
3			dosage forms							
Hom		Knows	4. Enlist the		Level 1	Must				
UG-			vehicles used		Recall	know				
HP- 1.28.			for dispensing of various							
4			dosage forms							
7										
Hom		Knows	5. Explain the		Level 2	Nice to				
UG-			quality		Understand	know				
HP-			assurance		ing					
1.28. 5			while							
5			dispensing homoeopathic							
			medicines.							
Hom		Shows	6.	Psychom	Level 2		1.Practical	1.DOPS	Practic	
UG- HP-		how	Demonstrate	otor	Control	Must	Demonstration	2. OSPE	Examir	nati
1.28.		Does	the dispensing of liquid			know	2.Procedural		on	
6			dosage forms				Skills Teaching			
			dosage forms				3. Problem			
							Based Learning			
Hom		Shows	7.		Level 2	Must	_			
UG-		how	Demonstrate		Control	know	4. Experiential learning			
HP-		Does	the dispensing		CONTROL		learning			
1.28.		Dues	of solid dosage							

7			forms							
Hom	D	Does	8.	Affective	Level 1		1.Lecture	1.DOPS	Practio	cal
UG-			Demonstrate		Posoiving		Demonstration		Exami	nati
HP-			care and		Receiving		3. Problem		on	
1.28.			commitment			Nice to				
8			while			know	Based Learning			
			dispensing of							
			homoeopathic							
			medicines.							

TOPIC: Placebo

# Learning Outcomes (LO):

At the end of the topic, I-BHMS student must be able to indicate placebo in a particular case

Sr.	Generic	Subjec	Mille	Specific	Specific	Bloom	Guilbert's	Must to	Teaching -	Assessment /Eva	aluation	
No	Compet	t Area	r's Level Does / Show s how/ Kno ws how/ Kno w	Competen	Learning Objective s	's Domai n	levels	know/ desirable to know/Nice to know	Learning Method	Formative	Summat	ive

11	D I. I.	District	17	N4 -1	1	4 D-C	C ''	114	NA -1	4 11	4.01	1.40	C A C
Hom	Problem	Placeb	Kno	Must	be	1. Define	Cognit	Level 1	Must	1.Lecture	1.Structured	LAQ	SAQ
UG-	solution	0	WS	able	to	Placebo	ive	Recall	Know	Demonstrations	Oral	MCQ	Viva
HP-				indicate						2. Small Group	Examination	Voce	
1.29.				placebo	in					Discussions/	2. Tutorials		
1	Integrati			а									
	on of			particula	ır					Peer teaching	3. Assignments		
	Knowle dge			case						(Think-Pair- Share, Jigsaw	4. MCQ's		
										Strategy)	5. 2 marks		
											question		
Hom	Synthesi		Kno	1		2.		Level 1	Must	3. Case based			
UG-	s and		WS			Enumera			Know	learning	6.SAQ's,		
HP-	applicati					te the		Recall			7.Projects		
1.29.	on of					vehicles							
2	knowled					used as							
	ge					placebo							
Hom			Kno			3. Explain		Level 2	Must				
UG-	Classroa		ws			the		Undanta:	Know				
HP-	Classroo					indicatio		Understan					
1.29.	m to clinic					ns of		ding					
3	transfer					placebo							
11.	เเสเเรเยก		D :	-		•		11 2	N.4 1				
Hom			Does			4.Select a		Level 3	Must				
UG-						placebo		Problem	Know				
HP-						for a		solving					
1.29.						particular		-					
4						case							
									1				

**TOPIC:** Preservation of Homoeopathic Medicines

# **Learning Outcomes (LO):**

At the end of the topic, I-BHMS student must be able to preserve homoeopathic medicines for long shell life.

Sr.	Generic	Subject	Miller'	Specific	Specific	Bloom's	Guilbert'	Must to	Teaching -	Assessment /E	valuation	
No	Compe tencies	Area	s Level Does/ Shows how/ Know s how/ Know	Compete	Learning Objectives	Domain	s Levels	know/ desirable to know/Nice to know	Learning Method	Formative	Summati	ive
Hom UG- HP- 1.30. 1 Hom UG- HP- 1.30. 2	Integra tion of Knowle dge  Synthes is and applica tion of knowle dge	Preserv ation of Homoe opathic medicin e	Know s Know s	Must be able to preserve homoeo pathic medicine s for long shell life	1. Enumerate the different methods of preservation of homoeopathic medicines  2. Explain the individual method of preservation of homoeopathic medicine.	Cognitiv e	Level 1 Recall  Level 2 Understa nding	Must Know Must Know	1.Lecture Demonstrati ons  2. Small Group Discussions/ Peer teaching (Think-Pair- Share, Jigsaw Strategy)  3. Quiz	1.Structured Oral Examination 2. Tutorials 3. Assignments 4. MCQ's 5. 2 marks question 6.SAQ's		SAQ Viva

Hom UG- HP- 1.30. 3	Classro om to Clinic transfe r	Does	3. Select appropriate mode preservation homoeopathi medicines.			Level 3 Problem solving	Must Know		7.Projects		
	Practic e based learnin g and improv ement										
Hom UG- HP- 1.30. 4		Does	4. Demonstr the method preservation mother substances preparations	of	Psychom otor	Level 2 Control	Desirable to Know	<ol> <li>Practical</li> <li>Demonstrati</li> <li>ons</li> <li>Procedural</li> <li>Skills</li> <li>Teaching</li> </ol>	Viva Voce Practical Examination	Practical Examinati n	0
Hom UG- HP- 1.30. 5		Does	5. Demonstr the method preservation potentised homoeopathi medicines	of of			Desirable to Know	3.Experiential Learning 4. Projects			

Hom UG- HP- 1.30. 6	Does	6. Demonstrate the method of preservation of homoeopathic mother tinctures		Desirable to Know			
Hom UG- HP- 1.30. 7	Shows	7.Show care & Arcommitment while preserving homoeopathic preparations and potentised medicine.	Affective Level 2 Respond	Nice to know	<ol> <li>Lecture</li> <li>Demonstrati</li> <li>on</li> <li>Practical</li> <li>Demonstrati</li> <li>on</li> </ol>	SAQ, 2 marks question Projects Assignments Tutorials Viva Voce Practical Examination	Practical Examination

**TOPIC:** Pharmacovigilance and adverse drug reaction

## **Learning Outcomes (LO):**

At the end of the topic, I-BHMS student must be able to identify any adverse drug reaction and comprehend the necessity of pharmacovigilance in homoeopathy

Sr.	Generic	Subject	Miller's	Specific	Specific	Bloom's	Guilber	Must to	Teaching -	Assessment /Evalua	tion

No	Competenc	Area	Level	Competen	Learning	Domain	t's	know/	Learning	Formative	Sumn	nativ
	ies		Does/ Shows	cies	Objectives		levels	desirable	Method		е	
			how/				Į,	to				
			Knows					know/Ni				
			how/				Į,	ce to				
			Know					know				
Harr	Droble	Dharre	Vn ss	NA. of It.	1 0-0-	Comin.	Loveld		1100000	1 C+	1.00	C 4 C
Hom UG-	Problem solution	Pharma covigila	Knows	Must be able to	1. Define adverse drug		Level 1	Must Know	1.Lecture Demonstrati	1.Structure d Oral	LAQ MCQ	SAC Viva
HP-	301011011	nce and		identify	reaction	е	Recall	KIIOW	ons	Examinatio	Voce	VIV
1.31.		adverse		any						n		
1	Integration	drug		adverse					2. Small Group	2. Tutorials		
Hom	of	reaction	Knows	drug	2. Enumerate	}	Level 1	Must	Discussions/			
UG-	Knowledge			reaction	the types of			Know		3.		
HP-				Comprehe	adverse drug		Recall		Peer teaching (Think-Pair-	Assignment		
1.31.	Synthesis			nd the of	reactions		ļ ,		Share, Jigsaw	S		
2	and			pharmaco vigilance					Strategy)	4. MCQ's		
Hom	application		Knows	in	3. Explain the	1	Level 2	Must	3. Case based	5. 2 marks		
UG-	of knowledge			homoeopa	management			Know	learning	question		
HP-	rnowieage			thy	of adverse		Unders tanding			6.SAQ's,		
1.31.					drug reactions		tanuing			7.Projects		
3	Classroom				in							
	to clinic				homoeopathy							
Hom	transfer		Knows		4.Define		Level 1	Desirable				
UG-					pharmacovigil		Recall	to Know				
HP- 1.31.					ance							
1.31. 4												
		<u> </u>	<u> </u>						[			

Hom	Knows	5.Explain in	Level 2	Desirable		
UG- HP-		detail the	Unders	to know		
1.31.		process of pharmacovigil	tanding			
5		ance in Homoeopathy				
		Homocopathy				

**TOPIC:** Doctrine of Signature

## **Learning Outcomes (LO):**

At the end of the topic, I-BHMS student must be able to apply doctrine of signature while selecting a Homoeopathic simillimum.

Sr. No	Generi c Comp etenci es	Subje ct Area	Miller's  Level Does/ Shows how/ Knows how/ Know	Specifi c Compe tencie s	Specific Learning Objectives	Domain	Guilbe rt's Levels	Must to know/ desirable to know/Nice toknow	Teaching - Learning Method	Assessment /Eva	Summ e	
Hom UG- HP- 1.32. 1 Hom UG- HP- 1.32. 2	Proble m formul ation  Integration of Knowl	Doctr ine of Signa ture	Knows	Must be able to apply doctri ne of signat ure while selecti ng a	<ol> <li>Define Doctrine of Signature</li> <li>Explain doctrine of signature with suitable examples</li> </ol>	Cognitiv e	Level 1 Recall  Level 2 Unders tandin g	Must Know Must Know	1.Lecture Demonstrations  2. Small Group Discussions/ Peer teaching (Think-Pair-Share, Jigsaw Strategy)  3. Quiz  4. Student	1.Structured Oral Examination 2. Tutorials 3. Assignments 4. MCQ's 5. 2 marks question	LAQ MCQ Voce	SAQ Viva

Hom UG- HP- 1.32. 3	Synth esis and applic ation of knowl	Knows how	Homo eopath ic simili mum	3.Apply the logic behind doctrine of signature in patients showing the same signs particularly in one sided case.		Proble m solving	Nice know	to	Seminars  5. Case based learning  6.Case Simulation  7. Experiential Learning	<ul><li>6.SAQ's</li><li>7.Projects</li><li>8.Assessment of case</li><li>9. Simulation assessment</li></ul>		
Hom UG- HP- 1.32. 4	edge	Shows how		4.Select a remedy for a one -sided case based on the doctrine of signature		Proble m solving	Nice know	to				
Hom UG- HP- 1.32. 5		Shows hows		5.Demonstrate care, professionalism &commitment while prescribing on the basis of doctrine of signature	Affectiv e	Level 2 Respo nd	Nice know	to	<ol> <li>Case based learning</li> <li>Case Simulation</li> <li>Experiential Learning</li> </ol>	<ol> <li>Assessment of case</li> <li>Simulation assessment</li> </ol>	Viva V	oce

**TOPIC:** Drug Proving

Learning Outcomes (LO):

# At the end of the topic, I-BHMS student must be able to prove a given drug on healthy human being

Sr. No	Generic Compete	Subj ect	Miller's Level	Specific Compet	Specific Learning	Bloom's Domain	Guilbert' s level	Must to know/	Teaching - Learning	Assessment /Evaluation		Inte	gra
	ncies	Area	Does/ Shows how/ Knows how/ Know	encies	Objectives	Joinain		desirable to know/Ni ce to know	Method	Method Formative	Type (Sum mativ e)		
HomUG- HP- 1.33.1	Problem Solution	Drug Prov ing	Knows	Proving a given drug on healthy human	1. Define Drug Proving.	Cognitiv e	Level 1 Recall	Must Know	1.Lecture Demonstrati ons 2. Small Group	1.Structur ed Oral Examinati on 2.	LAQ SAQ MCQ Viva Voce	tal Org n Me	izon with ano of dici
HomUG- HP- 1.33.2	Integrati on of Knowled ge		Knows	_ being	2. Illustrate the qualities of an ideal prover.	Cognitiv e	Level 1 Recall	Must Know	Discussions/ Peer teaching (Think-Pair- Share, Jigsaw Strategy)	Tutorials  3. Assignmen ts  4. MCQ's		ne	
HomUG- HP- 1.33.3	Synthesis and applicati on of knowled ge		Shows how		3. Apply the selection criteria (inclusion & exclusion) for provers during drug proving.	Cognitiv e	Level 3 Problem Solving	Desirable to know	<ul><li>4. Quiz</li><li>5. Student</li><li>Seminars</li><li>6. Guest</li><li>Lecture</li><li>7. Integrated</li></ul>	5.SAQ's and LAQ's 6. 2 marks questions			

HomUG- HP.1.33. 4	Problem solving	Knows	4. Explain the methodology for drug proving.	Cognitiv e	Level 2 Understa nd	Must Know	Teaching with Organon of Medicine			
HomUG- HP- 1.33.5		Does	5. Design the protocol for Drug Proving.	Cognitiv e	Level 3 Problem Solving	Nice to know	<ol> <li>Lecture         Demonstrati         on         2.Procedural         Skills         Teaching     </li> </ol>	1.Simulati on based assessmen t	LAQ SAQ Viva Voce	
HomUG- HP- 1.33.6		Does	6. Select ideal prover for drug proving		Level 3 Problem Solving	Desirable to know	<ul><li>3. Problem</li><li>Based</li><li>Learning</li><li>4. Role Plays</li><li>5.</li><li>Experiential</li></ul>			
HomUG- HP- 1.33.7		Does	7. Prepare the test substance for drug proving.	Psychom otor	Level 2 Control	Nice to know	learning 6. Team based learning			
HomUG- HP- 1.33.8		Does	8. Formulate the team for drug proving	Cognitiv e	Level 3 Problem Solving	Nice to know				
HomUG- HP- 1.33.9		Does	9. Record the symptoms of drug proving	Psychom otor	Level 2 Control	Nice to know				

Г					T		Т	
HomUG- HP- 1.33.10	Does	10. Interprete the provers symptoms	egnitiv Problem solving	Nice to know				
HomUG- HP- 1.33.11	Does	11. Translate the provers symptoms in Materia Medica language	Level 3 Problem solving	Nice to know				
HomUG- HP- 1.33.12	Shows	12. Show professionalis m and care during drug proving towards the provers.	fective Level 2  Respondi  ng	Nice to know	<ol> <li>Lecture         Demonstrati         on         2.Procedural         Skills         Teaching         3. Problem         Based     </li> </ol>	1.Simulati on based assessmen t	Viva Voce	
HomUG- HP- 1.33.13	Does	13. Value the privacy & integrity of the provers.	Level 3 Internaliz e	Nice to know	Learning 4. Role Plays 5. Experiential learning			
HomUG- HP- 1.33.14	Does	14. Value the consent of the prover.	Level 3 Internaliz e	Nice to know	6. Team based learning			

HomUG- HP- 1.33.15		Does		15. Value the ethical considerations during drug proving.		Level 3 Internaliz e	Nice to know					
--------------------------	--	------	--	---	--	----------------------------	-----------------	--	--	--	--	--

**TOPIC:** Posology

### **Learning Outcomes (LO):**

At the end of the topic, I-BHMS student must be able to

- 1. Select a particular potency for a particular case.
- 2. Select a particular dose for a particular case.
- 3. Repeat the dose as per the criteria for repletion of doses.

Sr. No	Generic	Sub	Miller'	Specific	Specific	Bloom'	Guilbert'	Must to	Teaching -	Assessment /Ev	valuation	Integra	ati
	Compet	ject	s Level	Compete	Learning	S	s Levels	know/	Learning Method			on	
	encies	Are	Does/	ncies	Objectives			KIIOW/					+-
		a	Shows		_	Domain		desirabl		Formative	Summative		
			how/					е					
			Knows										

			how/					to					
			Know					know/					
								Nice to					
								know					
HomU	Proble	Pos	Knows	Selecting	1.Define	Cogniti	Level 1	Must	1.Lecture	1.Structured	LAQ SAQ	Horizo	nt
G-HP-	m	olo		а	posology	ve	Recall	Know	Demonstrations	Oral	MCQ	al w	ith
1.34.1	solutio	gy		particula			Recail		2. Small Group	Examination	Viva Voce	Organ	on
	n			r					Discussions/	2. Tutorials	viva vocc	of	
				potency					·			Medic	ine
				for a					Peer teaching	3.			
	Integra tion of			particula r case.					(Think-Pair-Share,	Assignments			
	Knowle			Selecting					Jigsaw Strategy)	4. MCQ's			
	dge			a					3. Quiz	5. 2 marks			
	6			particula					4. Student				
				r dose					Seminars	•			
	Practic			for a					F. C. cost Lost	6.SAQ's and LAQ's			
	e based			particula					5. Guest Lecture	LAUS			
HomU	learnin		Knows	r case.	2.Explain		Level 2	Must	6. Integrated				
G-HP- 1.34.2	g and			Repeatin g the	the criteria for		Understan	know	Teaching with	7. Simulation			
1.34.2	improv			g the dose as	selection of		d		Organon of	based			
	ement			per the	potency				Medicine	assessment			
				criteria					7. Case based	8. Case based			
	Synthes			for					learning	assessment			
	is and			repletion					8. Case	assessifient			
HomU	applicat		Knows	of doses.	3.Apply the		Level 3	Desirab	simulation				
G-HP-	ion of		how		criteria for			le to	learning				
1.34.3	knowle		11000		selection of		Problem	know	_				
	dge				potency for		solving						
					a particular								

Knows	4. Enlist the different	Level 1	Must know					
Knows	types of doses  5. Explain the criteria for repetition	Level 2 Understa	Must know					
Shows	6.Apply the criteria for repetetion of doses for a particular	Level 3 Problem Solving	Desirab le to know					
Does	7. Choose the correct potency for a particular case	Level 3 Problem Solving	Desirab le to know	<ol> <li>Lecture Demonstration</li> <li>Procedural Skills Teaching</li> <li>Problem Based Learning</li> <li>Experiential learning</li> </ol>	1.Simulation based assessment 2. Case based assessment 3. OSPE	LAQ SAQ MCQ Practical Examinati on		
	Knows  Knows  Shows how	Knows  4. Enlist the different types of doses  Knows  5. Explain the criteria for repetition of doses.  Shows how  6.Apply the criteria for repetetion of doses for a particular case.  Does  7. Choose the correct potency for a particular	Knows  4. Enlist the different types of doses  5. Explain the criteria for repetition of doses.  Shows how  6. Apply the criteria for repetetion of doses for a particular case.  Does  7. Choose the correct potency for a particular Solving  Level 2 Understa nding  Problem Solving  Level 3 Problem Solving	Knows  4. Enlist the different types of doses  Knows  5. Explain the criteria for repetition of doses.  Shows how  6. Apply the criteria for repetetion of doses for a particular case.  Does  7. Choose the correct potency for a particular a particular of	Knows  4. Enlist the different types of doses  Knows  5. Explain the criteria for repetition of doses.  6. Apply the criteria for repetetion of doses for a particular case.  Does  7. Choose the correct potency for a particular case  Does  7. Choose the correct potency for a particular case    Does   Do	Knows  4. Enlist the different types of doses  Knows  5. Explain the criteria for repetition of doses.  Chows how criteria for repetetion of doses for a particular case.  Does  7. Choose the correct potency for a particular case  Level 3 Problem Solving  Desirab le to know  Level 3 Desirab le to know  Problem Solving  Desirab le to know  2. Procedural Skills Teaching 3. Problem Based Learning 3. Problem Based Learning 4. Experiential	Knows  Knows  4. Enlist the different types of doses  Knows  5. Explain the criteria for repetition of doses.  Shows how  6. Apply the criteria for repetition of doses for a particular case.  Does  7. Choose the correct potency for a particular case  Problem Solving  Desirab le to know  Problem Solving  1. Lecture Demonstration know  2. Procedural Skills Teaching 3. Problem Based assessment as	Knows  4. Enlist the different types of doses  5. Explain the criteria for repetition of doses.  Shows how  6.Apply the criteria for repetetion of doses for a particular case.  7. Choose the correct potency for a particular case  Does  7. Choose the correct potency for a particular case  1. Level 3 Desirab le to know be desirable to desirable to be desirable to desirable to be desirable to be desirable to desirable to be desirable to be desirable to be desirable to

		<del>_</del>						
					5. Team based learning			
					6.Case based learning			
					7. Case simulation learning			
HomU G-HP- 1.34.8	Does	8. Choose the proper dosage for a particular case	Level 3 Problem Solving	Desirab le to know				
HomU G-HP- 1.34.9	Does	9. Design the dosage and repetition for a particular case	Level 3 Problem Solving	Nice to know				
HomU G-HP- 1.34.1 0	Shows	10.Show professional ism and care while selection of potency & dose.	Level 2 Respond	Nice to know	<ol> <li>1.Lecture         Demonstration     </li> <li>2.Procedural         Skills Teaching     </li> <li>3. Problem Based         Learning     </li> <li>4. Experiential</li> </ol>	1.Simulation based assessment	Viva Voce	

HomU G-HP- 1.34.1 1	Shows	11. Value the privacy & integrity of the patient/cas e	Level 3 Internaliz e  Nice to learning 5. Team based learning 6. Case based learning
HomU G-HP- 1.34.1 2	Shows	12. Value the ethical considerati ons during selection of potency, dose and repetition of doses	Level 3 Nice to know learning e
HomU G-HP- 1.34.1 3	Shows	13. Value the importance of rational prescription	Level 3 Nice to know e

**TOPIC:** Prescription Writing

# Learning Outcomes (LO):

At the end of the topic, I-BHMS student must have knowledge of writing an ideal prescription

Sr.	Generic	Subject	Miller's	Specific	Specific	Bloom's	Guilbert's	Must to	Teaching -	Assessment /	'Evaluati	ion
No	Compete ncies	Area	Level Does/ Shows how/ Knows how/ Know	Competen	Learning Objectives	Domain	Level	know/ desirable to know/Ni ce to know	Learning Method	Formative	Summ e	ativ
Hom UG- HP- 1.35. 1 Hom UG- HP- 1.35. 2	Integratio n of Knowledg e  Practice based learning and improve ment	Prescri ption Writing	Knows	Writing an ideal prescription	1.Define Prescription writing.  2.Explain the parts of an ideal prescription.	Cognitive	Level 1 Recall  Level 2 Understan ding	Must Know Must Know	1.Lecture Demonstration s 2. Small Group Discussions/ Peer teaching (Think-Pair- Share, Jigsaw Strategy) 3. Quiz 4. Student	1.Structure d Oral Examinatio n 2. Tutorials 3. Assignment s 4. MCQ's 5. 2 marks question		SAQ Viva
Hom UG- HP- 1.35.	Synthesis and applicatio n of		Knows		3. List the abbreviations used in prescription writing with		Level 1 Recall	Must Know	Seminars  5. Guest Lecture  6. Case based	6.SAQ's and LAQ's		

	الم مينا معام			maanisa				loorning			
	knowledg			meaning.				learning			
	е							7. Case			
								simulation			
Hom		Kno	ws	4. Explain the	-	Level 2	Must	learning			
UG-				advantages		Understan	Know				
HP-	Problem			of							
1.35.	solution			prescription		ding					
4				to the							
				patients and							
	Classroo			to the							
	m to			physician.							
	OPD/IPD										
	Transfer										
Hom		Show	ws	5. Critically		Level 3	Nice to				
UG-		how	,	analyse a		Problem	know				
HP-				prescription		solving					
1.35.				for any		Joiving					
5				faults.							
Hom		Doe	<u> </u>	6. Write an	Psychom	Level 2	Must	1. Lecture	1.Simulatio	Praction	al
UG-				ideal	otor	Carlad	know	Demonstration	n based	Exami	nati
HP-				prescription		Control		2.0	assessment	on	
1.35.								2.Procedural	2 6-4-		
6								Skills Teaching	2. Case based		
								3. Problem			
								Based Learning	assessment		
Hom		Show		7. Criticize a	Cognitive	Level 3	Nice to	4. Experiential	3. OSPE		
UG-		how	,	wrong		Problem	know	learning			
HP-				prescription		1.0010111		8			
HP-				prescription							

1.35.			solving		5. Team based learning 6.Case based learning 7. Case simulation learning 8. Practical Demonstration		
Hom UG- HP- 1.35. 8	8.Show professionalis m and commitment while writing a prescription with accuracy.	Affective	Level 2 Respond	Nice to know	1.Lecture Demonstration 2.Procedural Skills Teaching 3. Problem Based Learning 4. Experiential learning	1.Simulatio n based assessment	Practical Examinat on
Hom UG- HP- 1.35. 9	9. Value the privacy & integrity of the prescription.		Level 3 Internalize	Nice to know	<ul><li>5. Team based learning</li><li>6. Case based learning</li><li>7. Case simulation learning</li></ul>		

Hom	10. Value the	Level 3	Nice to	8. Practical	
UG-	ethical	Internalize	know	Demonstration	
HP-	consideration	internalize			
1.35.	s during				
10	writing a				
	prescription				
Hom	11. Value the	Level 3	Nice to		
UG-	importance	Internalize	know		
HP-	of rational	internalize			
1.35.	prescription				
11					

**TOPIC:** Legislation

## **Learning Outcomes (LO):**

At the end of the topic, I-BHMS student must be able to follow and practice ethically all the laws that govern homoeopathic pharmacy.

Sr.	Generic	Subje	Miller's	Specific	Specific learning	Bloom's	Guilbert'	Must to	Teaching -	Assessment /	Evaluat	ion
No	Compete ncies	ct Area	Level Does/	Competen cies	Objectives	Domain	s Levels	know/ desirable	Learning Method	Formative	Summ e	ativ
			Shows how/ Knows					to know/Ni				

Hom UG- HP- 1.36. 2   Hom UG- HP- 1.36. 3   Hom UG- HP- 1.36. 4   Hom UG- HP- I.36. 4   Hom UG- HP- II.36. 4   Hom UG- HP-				how/ Know				ce to know				
, , , , , , , , , , , , , , , , , , ,	Hom UG-HP-1.36. 3  Hom UG-HP-1.36. 3  Hom UG-HP-1.36. 3	of owled others and olication of owled oblem	_	Knows	able to follow and practice ethically all the laws that govern homoeopa thic	that govern the legal aspects of homoeopathic pharmacy.  2. Illustrate the provisions under the Drugs & Cosmetic Act  3. Illustrate the provisions under the Schedule M1  4. Illustrate the provisions under the Drugs & Magic	Level 2 Understanding Level 2 Understanding Level 2 Understanding	Must know  Must know  Must know	Demonstration s  2. Small Group Discussions/ Peer teaching (Think-Pair-Share, Jigsaw Strategy)  3. Quiz  4. Student Seminars  5. Guest Lecture  6. Problem based learning  7. Flipped	d Oral Examinatio n 2. Tutorials 3. Assignment s 4. MCQ's 5. 2 marks question 6.SAQ's and	,	Viva

Hom	Knows	5. Illustrate the	Level 2	Must			T	
UG-	I KIIOWS	provisions	1000.2	know				
HP-		under the	Understa	KIIOVV				
			nding					
1.36.		Medicinal &						
5		Toilet						
		Preparation Act						
Hom	Knows	6. Illustrate the	Level 2	Must				
UG-		provisions	Understa	know				
HP-		under the						
1.36.		Dangerous	nding					
6		Drugs Act						
Hom	Knows	7. Illustrate the	Level 2	Must				
UG-		provisions	Understa	know				
HP-		under the	nding					
1.36.		Prevention of	namg					
7		Illicit Traffic in						
		Narcotic Drugs						
		& Psychotropic						
		Substances Act						
Hom	Knows	8. Illustrate the	Level 2	Must				
UG-		provisions		know				
HP-		under the	Understa					
1.36.		Homoeopathic	nding					
8		Central Council						
		Act						
Hom	Does	9.Demonstrate Psych	nom Level 2	Must	1.Practical	1.DOPS	LAQ	
UG-		the labelling of otor		know	Demonstration		Practic	al
HP-	Shows	homoeopathic	Control			2. OSPE	Examir	nati
1.36.	how	medicine			2.Procedural		on	

9		according to Part IX of the Drugs & Cosmetic Act 1940				Skills Teaching  3. Problem Based Learning  4. Experiential learning		
Hom UG- HP- 1.36. 10	Knows	10.Demonstrate care and commitment and abide by the provisions laid down in the various acts.	Affective	Level 1 Receivin g	Nice to know	<ul><li>1.Lecture</li><li>Demonstration</li><li>3. Problem</li><li>Based Learning</li></ul>	Role Play Assessment	Viva Voce

**TOPIC:** Drug Action

### **Learning Outcomes (LO):**

At the end of the topic, I-BHMS student must be able to differentiate the different mechanisms of drug action of homoeopathic medicines

Sr.	Generi	Subj	Miller's	Specific	Specific	Bloom's	Guilbert's	Must to	Teaching -	Assessment /E	valuatio	n
No	c Compe tencies	ect Area	Level Does/ Shows how/ Knows how/ Know	Competen	learning Objectives	Domain	Levels	know/ desirable to know/Nice to know	Learning Method	Formative	Summa	ative
								KIIOW				

	1	1	T	1 -	T	Ι -		1 .				
Hom UG- HP- 1.37. 1  Hom UG- HP- 1.37. 2  Hom UG- HP- 1.37.	Integra tion of Knowl edge  Synthe sis and applica tion of knowle dge  Classro om to Clinic transfe r	Drug Actio n	Knows	Must be able to differentia te the different mechanis ms of drug action of homoeopa thic medicines	different types of drug action.  2. Explain the individual family drug action according to their sphere of action.  3. Explain the individual family drug action	Cognitive	Level 2 Understan ding  Level 2 Understan ding  Level 2 Understan ding	Nice to Know  Desirable to Know  Desirable to Know	1.Lecture Demonstration s 2. Small Group Discussions/ Peer teaching (Think-Pair- Share, Jigsaw Strategy) 3. Quiz 4. Flipped Classroom 6. Videos 7. Integrated Teaching	1.Structured Oral Examination 2. Tutorials 3. Assignments 4. MCQ's 5. 2 marks question 6.SAQ's 7.Projects 8. Spotting	LAQ MCQ Practic Examin n Viva Vo	natio
Hom			Does		according to nature of drug & family relationship.  4. Analyze	Cognitive	Level 3	Nice to	1. Practical	1. Spotting		
UG- HP- 1.37. 4					the action of drug on patients.		Problem solving	know	Demonstration s 2.Experiential Learning	2. Pharmacological action of 30 drugs as specified		

Hom	Does	5. Co-relate		Nice to	3. Projects	in journal	
UG- HP- 1.37. 5		the action of drugs with the family characteristic s.		know		3. Projects	
Hom UG- HP- 1.37.	Knows	6.Show care in prescribing homoeopathic medicine based on action of drugs and drug relationships.	Respond	Must know	1. Lecture 2. Integrated teaching of Pharmacologic al drug action with Materia Medica	Journal Assessment	

**TOPIC:** Relation of Pharmacy with Materia Medica, Anatomy, Physiology

### **Learning Outcomes (LO):**

At the end of the topic, I-BHMS student must be able to correlate homoeopathic pharmacy with Materia Medica, Anatomy and Physiology

Sr. No	Generic	Subject	Miller'	Specific	Specific	Bloom	Guilbert'	Must to	Teaching -	Assessme	
	Competencies	Area	s Level Does/ Shows	Competen cies	Learning Objectives	's Doma	s Levels	know/ desirable	Learning Method	nt /Evaluatio n	
			how/ Knows			in		to know/Nice		Form	Summa

			how/ Know					to know		ative	tive
HomUG- HP 1.38.1	Problem formulation  Integration of Knowledge	Relation of Pharmacy with Materia Medica	Knows	Must be able to correlate homoeop athic pharmacy with material	1. Explain the correlation of homoeopathic pharmacy with the basics of Homoeopathic Materia Medica.	Cognit ive	Level 2 Understa nding	Desirable to Know	1.Lecture Demonstr ations 2. Small Group Discussion s/	1.Structur ed Oral Examinati on 2. Tutorials 3.	SAQ Viva Voce
HomUG- HP- 1.38.2	Synthesis and application of knowledge		Knows	medica, Anatomy and Physiolog y	2. Explain the correlation of homoeopathic pharmacy with the basics of Anatomy			Desirable to Know	Peer teaching (Think- Pair- Share, Jigsaw Strategy)	Assignmen ts 4. MCQ's 5. 2 marks question	
HomUG- HP- 1.38.3			Knows		3. Explain the correlation of homoeopathic pharmacy and Physiology			Desirable to Know	<ul><li>3. Quiz</li><li>4. Student</li><li>Seminars</li><li>5. Flipped</li><li>Classroom</li></ul>	6.SAQ's, LAQ's 7.Projects	

HomUG-	Knows	4 Apply +bo C	Cognit Lov	vel 3	Desirable to	1.	1. DOPS	
		4.Apply the C	_	vei 3			1. DOP3	
HP-	how	principles of iv	ve   Pro	oblem	know	Practical	2. OSPE	
1.38.4		posology	Solv	lving		Demonstr		
		during case				ation	3.	
		taking after				2. Lecture	Evaluation	
		selection of				Demonstr	of projects	
		similimum				ation	4.	
		based on				ation	4. Evaluation	
		knowledge of				3.		
		Homoeopathic				Experimen		
		Materia				tal	based	
		Medica.				Research	learning	
				-		projects	5.	
HomUG-	Knows	5. Apply the			Desirable to		Evaluation	
HP-	how	knowledge of			know	4. Case	of PBL	
1.38.5		drug action				based		
		based on				learning	6.	
		familial				5.	Evaluation	
		relationship				Problem	of Case	
		and remedy				based	simulation	
		relationship as				learning		
		noted in				learring		
		Homoeopathic				6. Case		
		Materia				simulation		
		Medica and						
		organ						
		affection with						
		anatomy						
		<u> </u>		-				
HomUG-	Knows	6. Apply the			Desirable to			
HP-	how	knowledge of			know			
		sources of						

		Τ	ı	T	T	Γ	Т	1
HomUG- HP- 1.38.7	Knows	drugs and collection of drugs while preparation of homoeopathic medicines according to the scale of potentisation.  7. Apply the knowledge of pharmacologic al action of drugs with the normal physiology of human body			Desirable to know			
HomUG- HP- 1.38.8	Knows	8.Demonstrate care, professionalis m & commitment & follow all the guidelines meticulously as given in 6 <sup>th</sup> edition of Organon of	Affect	Level 1 Receivin g	Nice to know	1. Practical Demonstr ation 2. Lecture Demonstr ation 3. Experimen	1. DOPS 2. OSPE 3. Evaluation of projects 4. Evaluation of case based	Viva Voce

	medicine while	tal learning
	selecting a	Research 5.
	particular	projects Evaluation
	homoeopathic	4. Case of PBL
	medicine in a	based
	particular	learning 6.
	potency.	Evaluation
		5. of Case
		Problem simulation
HomUG-	9.	based
HP-	Demonstrate	learning
1.38.9	care,	6. Case
	professionalis	simulation
	m &	Simulation
	commitment &	
	follow all the	
	guidelines	
	meticulously	
	as given in 6 <sup>th</sup>	
	edition of	
	Organon of	
	medicine while	
	preparation of	
	homoeopathic	
	medicine	
	according to	
	the scale of	
	potentisation.	

HomUG-	
	10.
HP-	Demonstrate
1.38.10	care,
	professionalis
	m & .
	commitment &
	follow all the
	guidelines
	meticulously
	as given in 6 <sup>th</sup>
	edition of edition
	Organon of
	medicine while
	prescribing a
	particular
	external
	application for
	a particular
	case.
HomUG-	11. Should
HP-	ensure that all
1.38.11	the resources
	are used to the
	fullest without
	any wastage
	while
	preparing
	homoeopathic

		medicine.			

**TOPIC:** Recent advancements and scope of research in Homoeopathic Pharmacy

## **Learning Outcomes (LO):**

At the end of the topic, I-BHMS student must be able to undertake a short term research in Homoeopathic Pharmacy

Sr.	Generic	Subject	Miller's	Specific	Specific	Bloom's		Must to	Teaching -	Assessment /Evaluation		
No	Compet encies	Area	Level Does/ Shows how/ Knows how/ Know	Compete	Learning Objectives	Domain	s levels	know/ desirable to know/Nice toknow	Learning Method	Formative	Summa ve	ati
Но	Proble	Recent	Knows	Must be	1.Enumerate	Cognitiv	Level 1	Nice to	1.Lecture	1.Structured		
mU	m	advance		able to	the types of	е	Recall	know	Demonstration	Oral		
G-	solutio	ments		undertak	research in		Recail		S	Examination		
HP-	n	and		e a short	homoeopathi				2. Small Group	2. Assignments		
1.3		scope of		term	c pharmacy				Discussions/	2.7.00.6		
9.1		research		research					2.300.33101137	3. MCQ's		
	Integra	in		in					Peer teaching			

	tion of	Homoeo		Homoeo					(Think-Pair-	4.SAQ's	
	Knowle	pathic		pathic					Share, Jigsaw		
	dge	Pharma		Pharmac					Strategy)		
		су		У					3. Visit to		
Ho mU G- HP-	Synthes is and applicat		Knows		2.Explain the recent advancement s in the field	Level 2 Understa nding	Nice Know	to	research laboratories		
1.3	ion of knowle dge				of homoeopathi c pharmacy						
Но			Does		3.Design the	Level 3	Nice	to			
mU G- HP- 1.3 9.3	Classro om to lab transfer				protocol for a short term research proposal in homoeopathi c pharmacy	Problem solving	know				

#### **Non-Lecture Activities**

- 1. Collection of 30 drugs for herbarium
- 2. Visit to a Large-scale manufacturing unit of Homoeopathic medicine (GMP compliant).
- 3. Visit to a Medicinal Plant /Botanical Garden & shall keep details Visit report
- 4. Clinical Class: Visit to IPD, OPD to take note on prescriptions as per Homoeopathic Principles and keep record

5. Visit to Hospital dispensing section to observe & gain knowledge on Dispensing techniques & Keep Records

### **8.PRACTICAL TOPICS**

Hom	oeopathic Pharmacy Practicals
Sr	
No.	Particulars of Experiments
1	Estimation of size of globules
2	Medication of globules (Small Scale)
3	Purity test of Sugar of milk
4	Purity test of water
5	Purity test of Ethyl alcohol
6	Determination of Specific gravity of a given liquid Vehicle & identifying the same.
7	Preparation of dispensing alcohol from strong alcohol.
8	Preparation of dilute alcohol from strong alcohol.
9	Trituration of drug in Old Method (One each of Class VII, VIII & IX)
10	Trituration of one drug as per HPI
11	Succussion in decimal scale from Mother Tincture (Prepared in Old Method) to 3X potency.
12	Succussion in decimal scale from Mother Tincture (Prepared in New Method) to 3X potency
13	Succussion in centesimal scale from Mother Tincture (Prepared in Old Method) to 3C
14	Succussion in centesimal scale from Mother Tincture (Prepared in New Method) to 3C
15	Conversion of Trituration to liquid potency: Decimal scale 6X to 8X potency.

16	Conversion of Trituration to liquid potency: Centesimal scale 3C to 4C potency.
17	Preparation of 0/2 potency (Solid form) (LM scale) of 1 Drug from 3 <sup>rd</sup> Degree Trituration.
18	Preparation of external applications – Lotion
19	Preparation of external applications – Glycerol
20	Preparation of external applications – Liniment
21	Preparation of external applications – Ointment
22	Writing of prescription & Dispensing the Medicine in Water with preparation of Doses
23	Writing of prescription & Dispensing the Medicine in Sugar of Milk with Preparation of Doses
24	Preparation of mother tinctures according to Old Hahnemannian method (Class I, II, III, IV)
25	Preparation of mother solutions according to Old Hahnemannian method (Class Va, Vb, Vla, Vlb)

#### Demonstration

- 1. Homoeopathic pharmaceutical instruments and appliances with their cleaning (List provided in Appendix C)
- 2. Estimation of moisture content using water bath
- 3. Paper chromatography & TLC of any mother tincture
- 4. Laboratory methods Sublimation, distillation, decantation, filtration, crystallization.
- 5. Preparation of mother tincture Maceration and Percolation
- 6. Study & demonstration of Drug Substances (listed in Appendix B)-
- i)Macroscopic Characteristic (Any 15)
- ii) Microscopic characteristic (Any 05)
- 7. Study & demonstration of vehicles (Solid, Liquid & Semi solid as available)
- 8. Microscopical study of Trituration (One drug up to 3X Potency)

9. Medication of Globule (Large Scale)

#### **Activities**

- 1. Collection of 30 drugs for herbarium
- 2. Visit to a Large-scale manufacturing unit of Homoeopathic medicine (GMP compliant).
- 3. Visit to a Medicinal Plant /Botanical Garden & shall keep details Visit report
- 4. Clinical Class: Visit to IPD, OPD to take note on prescriptions as per Homoeopathic Principles &keep record
- 5. Visit to Hospital dispensing section to observe & gain knowledge on Dispensing techniques & Keep Records

#### Demonstration

- 1. Homoeopathic pharmaceutical instruments and appliances with their cleaning (List provided in Appendix C)-06 Hours
- 2. Estimation of moisture content using water bath-02 Hours
- 3. Paper chromatography & TLC of any mother tincture-04 Hours
- 4. Laboratory methods Sublimation, distillation, decantation, filtration, crystallization.-04 Hours
- 5. Preparation of mother tincture Maceration and Percolation- 04 Hours
- 6. Study & demonstration of Drug Substances (listed in Appendix B)- 10 Hours
- i)Macroscopic Characteristic (Any 15)
  - ii) Microscopic characteristic (Any 05)
- 7. Study & demonstration of vehicles (Solid, Liquid & Semi solid as available)- 02 Hours
- 8. Microscopical study of Trituration (One drug up to 3X Potency)-02 Hours
- 9. Medication of Globule (Large Scale)-1 Hour

Section, Prescriptions based on Homoeopathic Principurs
pathic Pharmacy as assigned- 07 Hours
ı

#### 9. ASSESSMENT

### **Assessment Summary**

# 9A- Number of papers and Mark Distribution

Sr.	Course Code	Papers	Theory	Practical	Viva	Internal	Electi	ves	Grand Total
No.					Voce	Assessment-	Grade		
						Practical	Obtai	ined	
1	HomUG-HP	1	100	50	40	10			100

# 9B - Scheme of Assessment (formative and Summative)

Sr. No	Professional Course	1 <sup>st</sup> term (1-6 Months)		2 <sup>nd</sup> Term (7-12 Months)				3 <sup>rd</sup> Mont	Term hs)	(13-18		
1	First Professional BHMS	1st PA 10 Praction	Marks cal/Viva	1 <sup>ST</sup> TT 50 Marks Theory	50 Marks Practical/ Viva	2 <sup>nd</sup> PA 10 Practi	Marks cal/Viva	2 <sup>ND</sup> TT 50 Marks Theory	50 Marks Practical/ Viva	3 <sup>rd</sup> PA 10 Practi	Marks cal/Viva	UE

For Internal assessment, Only Practical/Viva marks will be considered. Theory marks will not be counted.

# Method of Calculation of Internal Assessment Marks for Final University Examination:

PA1	PA2	PA3	Periodical	TT1	TT2	Terminal Test	Final
Practical/Viva	Practical/Viva	Practical/Viva	Assessment	Practical/Viva	Practical/Viva	Average	Internal
(10 Marks)	Fractical, viva	Fractical, viva	Average	(50 Marks)	Fractical, viva	TT1+TT2/100*10	Assessment
(10 IVIdIKS)	(10 Marks)	(10 Marks)	PA1+PA2+PA3/3	(50 Ivial K3)	(50 Marks)	1111112/100 10	Marks
Α	В	_	FATIFAZIFAS/S	E	E	G	D+G/2
	6		D		•		D10/2

**PA-** Periodical Assessment **TT-** Terminal Test **UE-** University Examination

### 9C - Evaluation Methods for Periodical Assessment

Sr. No	Evaluation Criteria
1	Practical Performance
2	Viva Voce

# 9 D- Paper Layout

MCQ	10 marks
SAQ	40 marks
LAQ	50 marks

# 9 E-I - Distribution of Theory exam

Sr. No	Paper			Type of Questions  "Yes" can be asked.  "No" should not be asked.		
	Α	В	С	MCQ	SAQ	LAQ
	List of Topics	Term	Marks	(1 Mark)	(5	(10 Marks)
					Marks)	
1	General Concepts and Orientation	1	Refer	Yes	Yes	Yes
2	Raw Material: Drugs and Vehicles	1	Next Table	Yes	Yes	Yes
3	Homoeopathic Pharmaceutics	II		Yes	Yes	Yes
4	Pharmacodynamics	III		Yes	Yes	Yes
5	Quality Control			No	Yes	No
6	Legislations pertaining to Homoeopathic Pharmacy	III		No	No	Yes
7	Homoeopathic Pharmacy - Relationships	III		No	Yes	No

### 9 E – II - Theme table

Theme*	Topics	Term	Marks	MCQ's	SAQ's	LAQ's
А	General Concepts and	I	16	Yes	Yes	Yes

	Orientation					
В	Raw Material: Drugs and Vehicles	I	25	Yes	Yes	Yes
С	Homoeopathic Pharmaceutics	II	23	Yes	Yes	Yes
D	Pharmacodynamics	III	16	Yes	Yes	Yes
E	Quality Control	II	05	No	Yes	No
F	Legislations pertaining to Homoeopathic Pharmacy	III	10	No	No	Yes
G	Homoeopathic Pharmacy - Relationships	III	05	No	Yes	No

# 9 F Question paper Blueprint

Α	В	Question Paper Format
Question Serial Number	Type of Question	(Refer table 7 F II Theme table for themes)
Q1	Multiple choice Questions	1. Theme A
	(MCQ)	2. Theme B
	10 Questions	3. Theme B
	1 mark each	4. Theme B
	All compulsory	5. Theme B
	Must know part: 6 MCQ	6. Theme B
	Desirable to know: 2 MCQ.	7. Theme C
	Nice to know: 2 MCQ	8. Theme C
		9. Theme C
		10. Theme D
Q2	Short answer Questions	1. Theme A
	(SAQ)	2. Theme B
	8 Questions	3.Theme B
	5 Marks Each	4. Theme C
	All compulsory	5. Theme C
	Must know part: 9 SAQ	6. Theme D
	Desirable to know: 1 SAQ	7. Theme E

	Nice to know: Nil	8. Theme G
Q3	Long answer Questions	1. Theme A
	(LAQ)	2.Theme B
	5 Questions	3. Theme C
	10 marks each	4. Theme D
	All compulsory	5. Theme F
	All questions on must know	
	No Questions on Nice to know and Desirable to know	

### 9 G - Distribution of Practical Exam

# <u>Practical, Viva& Internal Assessment</u> → 100 marks

Spotting	20 marks
Experiment	20 marks
Journal	10 marks

Viva voce	40 marks
Internal assessment	10 marks

#### **10.LIST OF RECOMMENDED BOOKS**

#### **Text Books**

- 1. Dr. Partha Mandal &Dr. Biman Mandal, A Textbook of Homoeopathic Pharmacy, Revised and Enlarged 3rd Edition, 2012, New Central Book Agency Publishers.
- 2. Dr.Sumit Goel, Art and Science of Homoeopathic Pharmacy, 4<sup>TH</sup>Enlarged Revised Edition, 2021, IBPP Publishers.
- 3. Dr. D.D. Banerjee, Augmented Textbook of Homoeopathic Pharmacy, 2 nd Edition, 2012, B. Jain Publishers.
- 4. Dr. K.P. Mujumdar, Textbook of Homoeopathic Pharmacy, 2013, New Central Book Agency Publishers

#### **Reference Texts**

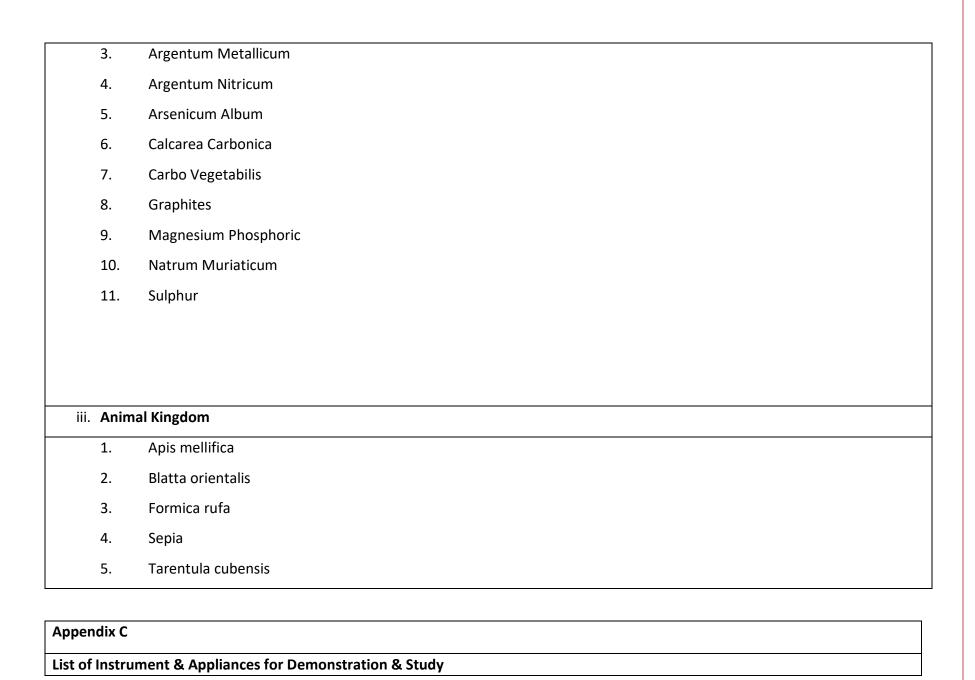
- 1.Banerjee SK & Sinha N. (Reprint edition, 1993). A Treatise on Homoeopathic Pharmacy. B Jain Publishers, New Delhi.
- 2. Govt. of India, Ministry of Health & Family Welfare, New Delhi (1971 to 2006). Homoeopathic Pharmacopoeia of India (1-9 Vol.)
- 3. Hughes R (Reprint edition, 1999). A Manual of Pharmacodynamics. B Jain Publishers, New Delhi.
- 4. Dr. P.N. Verma &Dr. (Mrs.) InduVaid, Encyclopaedia of Homoeopathic Pharmacopoeia, Vol- I,II,III, Edition 2002,B. Jain Publishers.

APPE	APPENDIX – A			
List o	f drugs included in the syllabus of Homoeopathic P	harmad	cy for study of Pharmacological action: -	
1.	Aconitum Napellus	16.	Glonoinum	
2.	Adonis vernalis	17.	Hydrastis Canadensis	
3.	Allium cepa	18.	Hyoscyamus niger	
4.	Argentum Nitricum	19.	Kali bichromicum	
5.	Arsenicum album	20.	Lachesis	
6.	Atropa Belladonna	21.	Lithium carbonicum	

7.	Cactus grandifloras	22.	Mercurius corrosivus
8.	Cantharis vesicatoria	23.	Naja tripudians
9.	Cannabis indica	24.	Nitricum acidum
10.	Cannabis sativa	25.	Nux vomica
11.	Cinchona officinalis	26.	Passiflora incarnate
12.	Coffea cruda	27.	Stannum metallicum
13.	Crataegus oxyacantha	28.	Stramonium
14.	Crotalus horridus	29.	Symphytum officinale
15.	Gelsemium sempervirens	30.	Tabacum

APPEI	APPENDIX – B		
List of	List of drugs for identification		
i. Vegetable Kingdom			
	1.	Aegle folia	
	2.	Anacardium orientale	
	3.	Andrographis paniculata	
	4.	Calendula officianlis	
	5.	Cassia sophera	
	6.	Cinchona officinalis	
	7.	Cocculus indicus	
	8.	Coffea cruda	

9.	Colocynthis
10.	Crocus sativa
11.	Croton tiglium
12.	Cynodon dactylon
13.	Ficus religiosa
14.	Holarrhenaantidysenterica
15.	Hydrocotyle asiatica
16.	Justicia adhatoda
17.	Lobelia inflata
18.	Nux vomica
19.	Ocimum sanctum
20.	Opium
21.	Rauwolfia serpentina
22.	Rheum
23.	Saraca indica
24.	Senna
25.	Stramonium
26.	Vinca minor
ii. Cher	nicals or Minerals
1.	Acetic acid
2.	Alumina



Crucible with lid	Test Tube	Tripod stand	Hot Air Oven
Porcelain Basin	Conical Flask	Wire gauze	Water bath
Mortar & Pestle Porcelain	Volumetric flask	Spatula	Macerating Jar
Ointment Slab	Minim glass	Leather pad	Percolator
Chemical Balance	Thermometer	Stop watch	Microscope
Hydrometer	Mortar & Pestle - Glass	Chopping Board	pH Meter
Alcoholometer	Glass Phials	Chopping Knife	Burette
Lactometer	Pyknometer	Sieve	Pipette
Spoon	Measuring Cylinder	Tincture Press	Dropper
Beaker	Graduated Conical Flask	Funnel	Glass Rod

# Appendix – D (List of Important Vehicles for Study)

Appendix – D (List of Important Vehicles for Study)			
Solid	Liquid	Semisolid	
Sugar of Milk	Water	Vaseline	
Globules	Ethyl Alcohol	Beeswax	
Tablets	Glycerine	Lanolin	
Cane Sugar	Olive Oil	Spermaceti	
	Simple Syrup	Isin glass	

	Lavender Oil, Sesame Oil, Rosemary Oil, Almond Oil	
		İ

### **Appendix E**

### Format for Maintaining Record on visit to Homoeopathic Manufactory (GMP Compliant)

Date of Visit

No. of Visiting Students & Teaching Faculty

Name of Teaching Faculty

Detail of the Instructor/s at the Manufactory

How the Tour was arranged

Name & Location of the Homoeopathic Manufactory

History about the Manufactory

Different Sections of the manufactory with its working process

Activities of R&D Dept

How the visit helped in correlation with topics studied in Theory

Conclusion

(Any other related information, not mentioned in format, if required can be included)

# **Appendix F** Format for Maintaining Record on visit to Medicinal Plant Garden Date of the Visit No. of visiting Students & Teaching Faculty Name of Teaching Faculty Detail of Instructor/s How the Tour was arranged Name & Location of the Medicinal Plant Garden History & about the Medicinal Plant Garden A list Medicinal Plants seen with brief description, Conclusion **Appendix G** Format for maintaining record on Hospital Activities (Visit to OPD/IPD & Dispensing Section) Record on Prescriptions based on Homoeopathic Principles in IPD/OPD No of Cases: Total 10 cases (5 Acute, 5 Chronic) Format -Patient ID Complaint

Diagnosis

Details of 1st Prescription – Name of Medicine, Potency, Dose with its Repetition,

Second Prescription (if Record is available)

Conclusion at the end of Acute & Chronic Cases on Lessons learnt on Homoeopathic Principles

Record on Activities/Posting in Hospital Dispensing Section

Total No. of Patients Date wise,

SI No as per Prescription Register,

Dosage form- Liquid/solid,

Name of Vehicle used,

Medication Process etc

Conclusion at the end on Lessons learnt on Homoeopathic Dispensing Techniques

Appendix H

Format for Maintaining record on Departmental Seminars

Maintenance of Record on Seminar Presentation on Topics of Homoeopathic Pharmacy as assigned

Circular/Notice of Departmental Seminar

Title of Topic for Presentation,

Date

Presented by Name of Student/s

Brief Report on the Seminar

Any New Information provided by the Speakers

Rating on a Scale of 10

No of Students & Faculty Members attending the Seminar

Photos

Signed by the Departmental Head

#### **11.LIST OF CONTRIBUTORS**

### **Dr.Parth Aphale**

Professor & H.O.D. Department of Homoeopathic Pharmacy, Dr. D.Y. Patil Homoeopathic Medical College & Research Centre, Pimpri, Pune-411018

#### **DR KAUSHIK DEB DAS**

Professor & Head, Dept of Homoeopathic PharmacyCollege - The Calcutta Homoeopathic Medical College & HospitalKolkata, WB

#### **DR RAM JYOTHIS**

ANSSHMC, Kottayam, Kerala

#### DR VIVEK SAKTHIDHARAN

Father Muller Homoeopathic Medical College, Karnataka