# 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

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# **Course-**Homoeopathic Pharmacy

Course code: Hom-UG-HP

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#### 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		B.Term	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	I	02
	Role of Laboratory in Homoeopathic Pharmacy Education		
Weights and	Metrology	1	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		

	T	T	T
Nomenclature	The Basic Rules of Nomenclature		02
	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	I	02
b) Raw Material: Drugs and	Vehicles		
Source of drugs in	5 ,	I	07
Homoeopathy	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		I	03
substances	drugs from all available sources		
Vehicles.	Definition, classification, General Use	1	06
	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 Pharmace	utics:		
		l .	

Mother tincture and its	Extraction – Principles & Various Methods	II	07
preparation	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.	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	II	06
	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	II	05
	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	III	06
Prescription	Prescription Writing Important Abbreviations Parts & Contents of Prescription Merits & Demerits of Prescription Writing	III	02
Dispensing of Homoeopathic Medicines	Various Dosage Forms – Solid, Liquid Dosage Forms,  Methods of Dispensing	II	02
Placebo.	Concept of Homoeopathic Placebo  The Philosophy of administration of placebo  Concept of Placebo Effect	II	01
Pharmaconomy	Routes of Homoeopathic drug administration.	II	02
Preservation	Preservation Rules – Raw Materials Drug Substance, Mother Preparations, Finished products & Vehicles	II	02

d) Pharmacodynamics			
<ul><li>Doctrine of Signature.</li></ul>	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 study of drugs</li></ul>	listed in Appendix-A (Any 15)	III	05
e) Quality Control:			
Standardisation in Homoeopathy	Different Methods of Standardisation  Quality Control of Raw Materials – Various	II	02
	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	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 Psych	notropic 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></ul>		
<ul><li>Introduction to Nanomedicine</li></ul>		
<ul> <li>Molecular Mechanism of Drug Action</li> </ul>		
<ul> <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>		
<ul> <li>Clinical evaluation of New Drugs</li> </ul>		
<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  H		Peyton's 4 step assessment crit	eria
	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 $3^{\rm rd}$ 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, VIa, VIb)	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.	efinition of Pharmacy & Homoeopathic Pharmacy oncept of Drug substance, Drug, Medicine & Remedy orming Basic concept of other AYUSH Schools of Pharmacy (Ayurveda, Siddha, Sowa Rigpa&							
	Unani Pharmacy)							
Homoeopathic Pharmacy	Sources of Homoeopathic Pharmacy							
Basics	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	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 Pharmace	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 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

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							
	he Philosophy of administration of placebo							
	Concept of Placebo Effect							
Pharmaconomy	Routes of Homoeopathic drug administration.							
	Preservation Rules – Raw Materials Drug Substance, Mother Preparations, Finished products & Vehicles							
d) Pharmacodynamics								
<ul> <li>Doctrine of Signature.</li> </ul>	Basic Concept, Its Evolution & Application in Ancient Medical System							
	Supporters of the Doctrine							
	Dr Hahnemann's view on the Doctrine							
■ 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							
■ Adverse 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 H	omoeopathic Pharmacy:									
The Drugs and Cosmetics Act,	1940 (23 to 1940)									
Drugs and Cosmetics Rules, 19	045									
Medicinal and Toilet Preparati	Medicinal and Toilet Preparations (Excise Duties) Act, 1955 (16 of 1955)									
Drugs and Magic Remedies (O	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	e 5 : Homoeopathic Pharmacy Practicals
Sr No.	
INO.	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	Inte	gration
No	c Compe tencies	Area	s Level Does/ Shows	c Compe tencies	Learning Objectives	s Domai n	ert's Level	to know/	Learning Method	Formative	Type (Sum mative		,
			how/ Knows how/ Know					desira ble to know/ Nice to know			)		
Ho mU		History of Pharmac	Knows	Must be able	Define Pharmacy	Cogniti ve	Lvel1	Must	1.Lecture Demonstrations	1.Structur ed Oral	Theory Viva Voce	& Hori	zontal
G- HP- 1.1.	Integra tion of	y with emphasis to emergen ce of		to interpr et the differe nce in			Recal I		2. Small Group Discussions/	Examinati		Orga	inon of

	Knowl	Homoeo		concep				3.Peer teaching	3		$\vdash$
	edge	pathic		t of				(Think-Pair-Share,	Assignmen		
	cuge	Pharmac		Pharm				Jigsaw Strategy)	ts		
		у		асу				4. Quiz	4. MCQ's		
				among				5 6 1	F 2 1		
				various					5. 2 marks		
	6			system				Seminars	question		
Но	Synthe sis and		Knows	s of AYUSH	Define	Level	Must	6. Integrated Teaching with	6.SAQ's and LAQ's		
mU G-	applica				Homoeop athic	1	know	Teaching with Organon of	allu LAQ S		
HP-	tion of				Pharmacy	Recal		Medicine			
1.1.	knowl					ļ					
2	edge										
Но			Knows	1	Describe	Level	Nice to				
mU					the Basic	2	Know				
G-					concepts	Unde					
HP-					of	rstan					
1.1.					Different	d					
3					schools of	u					
					Pharmacy						
					with						
					reference						
					to AYUSH						
Но			Knows		Differentia	Level	Must				
m-					te	2	know				
UG-					between	Unde					
HP-					Drug-	rstan					
1.1.					Medicine-	d					
4					Remedy						

**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.	Generi	Subjec	Miller's	Specific	Specific	Bloom'	Guilbert'	Must to	Teaching -	Assessmer	nt	Integration
No	С	t Area	Level Does/	Compet	Learnin	S	s Levels	know/	Learning	/Evaluatio	n	
	Comp etenci es		Shows how/ Knows how/ Know	encies	g Objecti ves	Domain		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 /	1.Structu red Oral Examinat ion 2. Tutorials	SAQ MCQ LAQ Viva Voce	

_	1	Г	1		1		1			<u> </u>
Но	Applic	Knows	ng	2.Explai	Level 2	Must Know	Peer	3.		
mU	ation		Homoe	n the	Understa		teaching	Assignm		
G-	of		opathic	Branch	nding		(Think-Pair-	ents		
HP-	knowl		Pharma	es of	liuling		Share,	4 N4CO's		
1.2.	edge		су	Homoe			Jigsaw	4. MCQ's		
2				opathic			Strategy)	5. 2		
				Pharma				marks		
				су			3. Quiz	question		
							4. Student			
Но		Knows		3.Illustr	Level 2	Must Know	Seminars	6.SAQ's		
mU				ate the	Understa			and		
G-				Scope	nding		5. Guest	LAQ's		
HP-				of			Lecture			
1.2.				Homoe			6. Problem			
3				opathic			based			
				Pharma			learning			
				су			learning			
Но	-	Knows		4.Descr	Level 2	Must Know				
m-				ibe the						
UG				Original	Understa					
HP-				ity &	nding					
1.2.				Specialt						
4				y of						
				Homoe						
				opathic						
				Pharma						
				су						
Но		Knows		5.Explai	Level 2	Must Know				
mU				n the						
G-				Funda						

HP-			mental	Understa			
1.2.			Principl	nding			
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 /Ev	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	Summa	

			l					T				
			WS					Nice				
			how/					to				
			Kno					know				
			w									
Hom	Integrati	Nomencla	Kno	Must be able to	1.State the	Cognitive	Level 1	Must	1.Lecture	1.Structured	SAQ	
UG-	on of	ture of	ws	describe the	Basic rules		D II	Know	Demonstrati	Oral	\ <i>1</i> '' - \ <i>1</i> '-	
HP-	Knowled	Homoeop		principles	of		Recall		ons	Examination	Viva Vo	ce
1.3.1	ge	athic		followed in	Nomenclatu				2. Small	2. Tutorials		
		Medicines		nomenclature	re				Group			
	Synthos:			of Homoeopathic					Discussions/	3. Assignments		
	Synthesi s and			medicines					Peer teaching	4. MCQ's		
	Applicati								(Think-Pair-	5. 2 marks		
Hom	on of		Kno		2.Describe		Level 2	Must	Share, Jigsaw	question		
UG-	knowled		ws		the		Unders	Know	Strategy)			
HP-	ge				nomenclatu		tanding		3. Quiz			
1.3.2					re of		tanding					
					Homoeopat				4. Student			
					hic Drugs				Seminars			
Hom			Kno		3.Enumerat		Level 1	Must	5. Guest			
UG-			ws		e the		Recall	Know	Lecture			
HP-					important		NECALI		6. Problem			
1.3.3					terminologi				based			
					es related to				learning			
					Nomenclatu				33			
					re							
Hom			Kno		4.Define		Level 1	Must				
UG-			ws		Scientific		Recall	Know				
					Name		Recall					
								1				

HP-									
1.3.4									
Hom	k	<b>Kno</b>	5.Define		Level 1	Must			
UG-	v	ws	Common		Danell	Know			
HP-			Name		Recall				
1.3.5									
Hom	k	Kno	6.Enumerat	Cognitive	Level 1	Must			
UG-	V	ws	e the		Recall	Know			
HP-			advantages		Recail				
1.3.6			of Scientific						
			Name						
Hom	k	Kno	7.Enumerat	Cognitive	Level 1	Must			
UG-	V	WS	e the		Recall	know			
HP-			Advantages						
1.3.7			of Common						
			Name						
Hom	k	<b>Kno</b>	8.Identify	Cognitive	Level 3	Nice	1.Lecture		
UG-	V	ws	the existing	_	5 11	to	Demonstrati		
HP-			anomalies		Proble	know	on		
1.3.8			in		m Coluina		2 Dwa an duwal		
			Nomenclatu		Solving		2.Procedural		
			re of				Skills		
			Homoeopat				Teaching		
			hic				3. Problem		
			Medicines				Based		
							Learning		

# **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	aluatio	n
No	Compet encies	Area	's Level Does/ Show s how/ Know s how/ Know	Competen	C Learning Objectives	Domain	t's Levels	know/ desirable to know/Ni ce to know	Learning Method	Formative	Sumr ve	nati
Ho mU G- HP- 1.4. 1	Integrati on of Knowled ge  Synthesi s and Applicati on of knowled ge	Pioneers of Homoeopa thic Pharmacy	Knows	able t state th contribution	Pioneers of Homoeopath y in the field of Homoeopathi		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	

**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	nent
No	Competencies	Area	Level Does/	Competenci	Learning	S	rt's	know/	Learning	/Evalua	tion
			Shows how/ Knows	es	Objectives	Domain	levels	desirabl	Method	Forma	Sum
			how/ Know					e		tive	mati
			,					to			ve
								know/			
								Nice to			
								know			
Hom	Problem solution	Pharmacop	Knows	Must be	1. Define	Cogniti	Level 1	Must	1.Lecture	1.Stru	SAQ
UG-		oeia		able abide	Pharmacop	ve	Recall	Know	Demonstratio	cture	MC
				by the	oeia				ns	d Oral	Q

HP-	Integration	of		homoeopat					2. Small	Exami	Vi	<b>v</b> a
1.5.1	Knowledge			hic					Group	nation		ce
Hom UG- HP- 1.5.2	Synthesis application knowledge	and of	Know	pharmacop oeia guidelines for preparation of homoeopat hic medicines.	2. Enumerate the different types of homoeopat hic pharmacop oeia with suitable examples.		Level 1 Recall	Must Know	Discussions/ Peer teaching (Think-Pair- Share, Jigsaw Strategy) 3. Quiz 4. Student Seminars	2. Tutori als 3. Assign ments 4. MCQ' s		
Hom UG- HP.1. 5.3			Know	S	3. Explain the different types of homoeopat hic pharmacop oeia.	1	Level 2 Under standi ng	Must Know		5. 2 marks questi on 6.SAQ 's, LAQ's 7.Proj		
Hom UG- HP- 1.5.4			Know	S	4. Explain HPI in detail		Level 2 Under standi ng	Must Know		ects		
Hom UG-			Know	S	5. Explain what is	1	Level 2	Must Know				

HP- 1.5.5		monogra ph?	Under standi					
			ng					
Hom UG- HP- 1.5.6	Knows how	6.Apply the guidelines laid down in the official homoeopat hic pharmacop oeia w.r.t. identificatio n, collection, preservatio n, preparation and dispensing of homoeopat hic medicine		Nice to know	<ol> <li>Practical Demonstration</li> <li>Lecture Demonstration</li> <li>Projects</li> <li>Herbarium</li> <li>Journal</li> </ol>	DOPS 2.	Pratical Examination / Checklis	va va oce ac al a ina ina
Hom UG- HP- 1.5.7	Knows how	7.Demonstr Afferate care, e professiona lism & commitmen		Nice to know	1. Practical Demonstratio n	1. DOPS 2. OSPE		iva oce

		t & follow		2. Lecture	3.	
		all the		Demonstratio	Evalu	
		guidelines		n	ation	
		meticulousl		2 Drainata	of	
		y as given in		3. Projects	projec	
		official		4. Herbarium	ts	
		homoeopat		5 Il	4	
		hic		5. Journal	4.	
		pharmacop			Evalu	
		oeia w.r.t.			ation	
		identificatio			of	
		n,			Journ	
		collection,			al &	
		preservatio			Herba	
		n,			rium	
		preparation				
		and				
		dispensing				
		of				
		homoeopat				
		hic .				
		medicine				

**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. No	Generic Competencies	Subject Area	Miller's Level Does/ Shows how/	Specific Competenci es	Specific Learning Objectives	Bloom' s	Guilber t's Levels	Must to know/	Teaching - Learning Method	Assessment /Evaluation		
			Knows how/ Know		Objectives	Domai n	LEVEIS	desirable to know/ Nice to know	Wethou	Formative	<b>S</b> u	pe mm ve
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	LA Viv	cQ Q
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	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	5. Guest 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 ve	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	cal Ex	acti ami tion
Hom UG- HP- 1.6.5	Shows how	5.Demonstra te care while identifying & collecting the	Affectiv e	Level 1 Receivi	Nice to know	1.Lecture Demonstr ation	1.Herbarium		acti ami tion

		plant drug		2. Problem		
		substances		Based		
				Learning		

**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.

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 how/ Knows how/ Know	ncies	g Objecti ves	in	Levels	know/ desirable to know/Nice to know	Method	Formative	Sui	mmai

				1	т	т						$\overline{}$
Hom	Integration	of			Must be		Cogniti	Level 2		1.Lecture	1.Structure	LAQ
UG-	knowledge		of drugs	Knows	able to		ve	Underst	Must know	Demonstra	d Oral	
HP-					identify	the part		anding		tions	Examinatio	MCQ
1.7.1					the	used				2. Small	n	Viv <mark>a</mark>
	Synthesis	and			animal	and				Group	2. Tutorials	Voce
	application	of			drug	drug				Discussions		1
	knowledge				substanc	prepare				/	3.	1
					es for					<b>'</b>	Assignment	1
					preparati	animal				Peer	S	1
	Classroom	to			on of					teaching	4. MCQ's	1
	herbarium	and			homoeop	m	]			(Think-		1
	lab transfer				athic		]			Pair-Share,	5. 2 marks	1
					medicine		]			Jigsaw	question	1
					S.					Strategy)	6.SAQ's and	1
										3. Quiz	LAQ's	1
										4. Student	7.	1
										Seminars	Herbarium	1
										5. Guest		1
Hom				Knows		2. List		Level 1	Must Know	Lecture		1
UG-						any 4		Recall			ļ i	1
HP-						exampl		Necall		6. Problem	ļ i	1
1.7.2						es of				based	ļ i	1
						drugs				learning	ļ i	1
						from				7. Flipped	ļ i	1
						particul				Classroom	ļ i	1
						ar part					ļ i	1
						of the				8. Videos	ļ i	1
						animal.					ļ i	1
											ļ i	1
											ļ i	1

Hom UG-	Knows	3. Explain		Level 2 Underst	Must Know				
HP- 1.7.3		classific ation of		anding					
		animal kingdo m							
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	Prac Exan tion	mina
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	Prac Exan tion	mina

		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. No	Generic Competencies	Subject Area	Miller's Level Does/ Shows how/ Knows how/ Know	Specific Compet encies	Specific Learning Objectives	Bloom's Domain	Guilbert's Levels	Must to know/ desirable to know/Nic e to know	Teaching - Learning Method	Assessment /Evaluation Formativ e	
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 preparation of	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 teaching	1.Structu red Oral Examinat ion 2. Tutorials	LAQ SAQ MCQ Viva Voce

		T I	Ι.	1				/ <del>-</del> 1 * 1		
	Classroom to		homoeo					(Think-	3.	
	herbarium and		pathic					Pair-	Assignme	
	lab transfer		medicin					Share,	nts	
			es.					Jigsaw Strategy)	4. MCQ's	
Hom UG- HP- 1.8.2		Knows		2. List any 4 examples of drugs from from		Level 1 Recall	Must know	<ul><li>3. Quiz</li><li>4. Student</li><li>Seminars</li></ul>	5. 2 marks question 6.SAQ's	
				minerals.				5. Guest Lecture - 6.	and LAQ's 7.	
Hom UG- HP- 1.8.3		Knows		3. Explain the classificatio n of mineral kingdom		Level 2 Understa nding	Must know	Problem based learning 7. Flipped Classroom 8. Videos	Herbariu m	
Hom UG- HP- 1.8.4		Does		4. Identify the mineral used for preparation of homoeopat hic medicines	Cognitiv e	Level 3 Problem solving	Must know	1.Practical Demonstr ation 2.Procedu ral Skills Teaching 3. Herbariu m	1.DOPS 2. OSPE 3. Herbariu m	Practi al Exami ation

								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	Practi al Exami 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.		Miller'		Bloom's	Guilbert's	Must to	Assessment
No		S			Levels		/Evaluation

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

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

Но	Does	7. lo	dentify	Cognitiv	Level 3	Must	1.Practical	1.DOPS	Practical
mU	2003	the	a Circii y	e		know	Demonstrati	2.50.5	Examinati
G-			de/nos		Problem	KIIOW	on	2. OSPE	on
HP			sed for		solving		OII		OII
ПР							2.Procedural		
1.9.		prepar	ration				Skills		
7		of					Teaching		
		homo	eopat						
		hic					3.		
		medic	ines				Experiential		
							learning		
							(Projects)		
Но	Shows	8.Dem	onstr	Affectiv	Level 1	Nice to	1.Lecture	1.Monogra	Practical
mU	how	ate	care	е	Level 1	know	Demonstrati	phs	Examinati
G-	TIOW	while	carc	C	Receiving	KIIOW	on	ρπ	on
HP			fying &				OII		OII
' ''							2. Problem		
1.9.		collect	seased				Based		
8							Learning		
		part/s							
		on	for						
		prepar	ration						
		of							
			es&he						
		althy							
		part/s	ecreti						
		on	for						
		prepar	ration						
		of sarc	codes						

**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.	Generic	Subject	Miller's	Specific	Specific	Bloom's	Guilber	Must to	Teaching	Assessme	nt
No	Competencies	Area	Level	Competen cies	Learning Objectives	Domain	t's Levels	know/	- Learning Method	/Evaluatio	n
			Does/ Shows how/ Knows how/ Know	cies	Objectives		Leveis	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  Classroom to	Sources of drugs	Knows	Must be able to identify the drug substance s from energy sources for preparatio	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 teaching	1.Struct ured Oral Examina tion 2. Tutorials 3. Assignm	LAQ SAQ MCQ Viva Voce
	herbarium and lab transfer			n of homoeop athic medicines					(Think- Pair- Share, Jigsaw	ents 4. MCQ's 5. 2	
Hom UG- HP-			Knows	1.	2. List any 4 examples of drugs prepared from		Level 1 Recall	Must know	Strategy) 3. Quiz	marks question	

1.10.		:				6.SAQ's	<del>                                      </del>
2		imponderab ilia			4. Student Seminars 5. Guest	and LAQ's	
Hom UG- HP- 1.10. 3	Knows	3. Explain classification of imponderabilia.	Level 2 Underst anding	Must know	Lecture  6. Problem based learning  7. Flipped Classroo m  8. Videos		
Hom UG- HP- 1.10. 4	Does	4. Identify the energy versource used for preparation of homoeopat hic medicines from imponderab ilia	Proble m solving	Nice to know	1.Practica I Demonst ration 2.Proced ural Skills Teaching 3. Experient ial learning (Projects)	1.DOPS 2. OSPE	Pra al Exa nat

Hom	Shows	5.Demonstr	Affectiv	Level 1	Nice	to	1.Lecture	1.Monog	Practi
UG- HP- 1.10. 5	how	ate care & commitmen t while identifying & collecting the different energy sources for preparation of imponderab ilia medicines	е	Receivi	know		Demonst ration  2. Problem Based Learning	raphs	al Exam nation

**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/	Competenci	Learning	Domain	s Levels	know/	Learning	smen
			Shows how/	es	Objectives	Domain		KITOVV	Method	t
										/Eval

			Knows how/ Know					desirable to know/Ni ce to know		n Form ative	Sumr 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, Isodes, Synthetic Source for preparation of homoeopat hic medicines.	1. Explain the preparation of Allersodes, Isodes& Synthetic Source of homoeopat hic medicines	Cognitiv	Level 2 Underst anding	Must	1.Lecture Demonstr ations 2. Small Group Discussio ns/ Peer teaching (Think- Pair- Share, Jigsaw Strategy) 3. Quiz	1.Str uctur ed Oral Exam inatio n 2. Tutor ials 3. Assig nmen ts 4. MCQ' s	LAQ SAQ MCQ Viva Voce

Hom	l'n ours	2 List service		Lovel 1	Muct	1 C+udo-+	ГЭ	
Hom	Knows	2. List any 4		Level 1	Must	4. Student		
UG-		examples of		Recall	know	Seminars	mark	
HP-		drugs				5. Guest	S	
1.11.		prepared				Lecture	quest	
2		from				Lecture	ion	
		Allersodes,				6.	6.SA	
		Isodes&Synt				Problem		
		hetic Source				based	Q's	
						learning	and	
							LAQ's	
						7. Flipped		
						Classroo		
						m		
						8. Videos		
						8. Videos		
Here	Desc	2 140046.	Cooniti	Lovel 2	NALLOT		Ducio	Dun at
Hom	Does	3. Identify	Cognitiv	Level 3	Must	1	Proje	Pract
UG-		the part	е	Problem	know	Experienti	cts	al
HP-		used for		solving		al learning		Exam
1.11.		preparation		30.78		(Projects)		natio
3		of						
		Allersodes,						
		Isodes&						
		Synthetic						
		Source.						

**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

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- /Evalua	atior
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Ho mU	Problem solution	Collection of Drug	Knows	Must be able to	1. Explain the general rules	Cognitiv e	Level 2 Understa	to know/Ni ce to know Must know	1.Lectur	1.Stru cture	LAC SAC
G- HP- 1.1 2.1	Integration of Knowledge  Synthesis and application of knowledge	Substances		collect a particular part/ source for preparatio n of homoeop athic drugs	for collecting drugs from vegetable kingdom.		nding		Demons trations  2. Small Group Discussi ons/ Peer teaching (Think-Pair-Share,	d Oral Exami natio n 2. Tutori als 3. Assig nmen ts	MC Q Viv a Voo e
Ho mU G- HP- 1.1 2.2	Classroom to Herbarium transfer		Knows		2. Explain the particular rules for collecting drugs from vegetable kingdom.		Level 2 Understa nding	Must know	Jigsaw Strategy ) 3. Quiz 4. Student	4. MCQ' s 5. 2 marks quest ion	

Ho mU G- HP- 1.1 2.3	Practice based learning and improvement	Knows	3. Explain the general rules for collecting drugs from animal kingdom.	Level 2 Understa nding	Must know	Seminar s 5. Guest Lecture 6. Flipped	6.SAQ 's and LAQ's 7.Proj ects 8.	
Ho mU G- HP- 1.1 2.4		Knows	4. Explain the particular rules for collecting drugs from animal kingdom.	Level 2 Understa nding	Must know	Classroo m 7. Videos	Herba rium	
Ho mU G- HP- 1.1 2.5		Knows	5. Explain the collection of drugs from mineral kingdom.	Level 2 Understa nding	Must know			
Ho mU G- HP- 1.1 2.6		Knows	6. Explain collection of Nosodes, Sarcodes & Impondera bilia.	Level 2 Understa nding	Must know			

		<del>_</del>	,					
Ho mU G- HP- 1.1 2.7	Does	7. Collect the drugs from vegetable kingdom.	Psycho motor	Level 3 Automati on	Must know	1. Practical Demons trations 2. Procedu ral Skills Teachin g	1.DO PS 2.OSP E 3.Proj ects 4.Spo tting	Ex mi
Ho mU G- HP- 1.1	Does	8. Collect the drugs from animal kingdom.		Level 3 Automati on	Must know	3.Experi ential Learning	5.Her bariu m.	
2.8  Ho mU G- HP. 1.1 2.9	Does	9. Collect the drugs from nosodes, sarcodes & imponderabil ia.		Level 2 Control	Must know	-		
Ho mU G- HP- 1.1	Shows hov	Demonstrate care & commitment while	Affective	Level 1 Recieving	Nice to know	1. Lecture Demons tration	Herba rium	Pra cti al Ex mi

2.1	collecting	2.	atio
0	drugs from	Practical	n
	vegetable	Demons	
	kingdom,	tration	
	animal		
	kingdom,		
	nosodes,		
	sarcodes		
	&impondera		
	bilia.		

Must to

Assessment /Evaluation

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

Miller's

Generic	Subje	Level	Specific	Specific	Bloom'	Guilbert's	know/	Teaching -	Formative	Sum	mati
Competenci es	ct Area	Does/ Shows how/ Knows how/ Know	Compete ncies	Learning Objectives	s Domain	Levels	desirable to know/Ni ce toknow	Learning Method		ve	
Integration of Knowledge  Synthesis and application of knowledge	Clean sing of instru ments	Knows	Must be able to clean the instrume nts used in homoeo pathic pharmac eutical	1. Explain the cleansing of mortar & pestle.	Cogniti ve	Level 2 Understanding	Must know	1.Lecture Demonstrati ons  2. Small Group Discussions/ Peer teaching (Think-Pair- Share, Jigsaw	1.Structured Oral Examination 2. Tutorials 3. Assignments 4. MCQ's 5. 2 marks	LAQ MCC Viva Voce	1
Classroom to Lab transfer Practice based		Knows	laborator y	<ul><li>2. Explain the cleansing of spatula.</li><li>3. Explain the cleansing of glass</li></ul>		Level 2 Understand ing  Level 2 Understand ing	Must know Must know	Strategy) 3. Quiz 4. Student Seminars 5. Flipped Classroom	question 6.SAQ's 7.Projects		
	Integration of Knowledge  Synthesis and application of knowledge  Classroom to Lab transfer	es Area  Integration of Sing of Sing of Instruments  Synthesis and application of Sing of Sing of Instruments  Classroom to Lab transfer  Practice	es Area Shows how/ Knows how/ Knows how/ Knows how/ Know Sing of Knowledge instruments  Synthesis and application of knowledge  Classroom to Lab transfer  Fractice  Area Shows how/ Knows	es	es Area Shows how/ Knows how/ Kno	es Area Shows how/ Knows how/ Kno	es Area Shows how/ Knows how/ Knows how/ Knows how/ Knows how/ Know Sing of Knowledge instru ments Synthesis and application of knowledge Knowledge Knowledge  Synthesis and application of knowledge  Classroom to Lab transfer  Knows Knows Shows how/ Know Show/ Knows how/ Know Show/ Knows how/ Know Show/ Knows Sing of Single Shows how/ Knows Sing of Single Shows how/ Knows Sing of Single Shows Single Shows Show Show/ Knows Sing of Single Shows Show Show Show Show Show Show Show Show	es	es Area Shows how/ Knows how/ Knows how/ Knows how/ Knows how/ Know bow/ Kno	es Area Shows how/ Knows how/ How/ Knows how/ How/ Knows how/ Level 2 Understand how/ Le	es Area Shows how/ knows how/ knows how/ knows how/ know

	l .	T.,			1				
Hom UG- HP.1 .13.4	improveme nt	Knows	4. Explain the cleansing of corks.		Level 2 Understand ing	Must know			
Hom UG- HP.1 .13.5		Knows	5. Explain the cleansing of wooden instruments		Level 2 Understand ing	Must know			
Hom UG- HP.1 .13.6		Does	6. Demonstrat e the cleansing of mortar & pestle.	Psycho motor	Level 3 Automatism	Must know	<ol> <li>Practical Demonstrations</li> <li>Procedural Skills Teaching</li> <li>Experiential Learning</li> </ol>	1.DOPS 2.OSPE 3.Spotting	Practical Examination
Hom UG- HP.1 .13.7		Does	7. Demonstrat e the cleansing of spatula		Level 3 Automatism	Must know			
Hom UG- HP-		Does	8. Demonstrat e the cleansing of		Level 3 Automatism	Must know			

1.13.		glass bottles.							
Hom UG- HP- 1.13. 9 Hom UG-	Does	9. Demonstrat e the cleansing of corks.  10. Demonstrat		Level 3 Automatism Level 3	Must know Must know				
HP- 1.13. 10	Does	e the cleansing of wooden instruments		Automatism					
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	Prac Exam 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 -	Assessme	
no	Competencies	Area	S	Competenci	Learning	S	rt's	know/	Learning	/Evaluatio	on
			Level Does/ Shows how/	es	Objectives	Domain	Levels	desirable to know/Ni	Method	Formati ve	Sun mat e
			Knows how/ Know					ce to know			
Hom .UG- HP- 1.14. 1	Problem solution  Integration of Knowledge  Synthesis and application of knowledge	Lab Methods	Knows	Must be able to select and apply a particular lab method for preparation of homoeopat hic medicines	1. Define decantation, sedimentation, filteration, distillation, sublimation, precipitation.	Cognitiv e	Level 1 Recall	Must know	1.Lecture Demonstrati ons  2. Small Group Discussions/ Peer teaching (Think-Pair- Share, Jigsaw	1.Struct ured Oral Examina tion 2. Tutorials 3. Assignm ents	LAC SAC MC Viva Voc
	Classroom to lab transfer			and for standardiza tion of homoeopat					Strategy) 3. Quiz 4. Student Seminars	4. MCQ's 5. 2 marks question	

	Practice based		hic				5. Guest	6.SAQ's
	learning and		medicines				Lecture	and
	improvement						6. Problem	LAQ's
							based	7.Projec
							learning	ts
							7. Flipped	
							Classroom	
							8. Videos	
om		Knows		2. Explain the	Level	Must		
G-				process of	2	know		
<b>P</b> _				decantation,s				
14.				edimentation	Under			
				, filteration,	standi			
				distillation,	ng			
				sublimation,p				
				recipitation				
om		Knows		3.Explain the	Level	Must		
JG-				homoeopathi	2	know		
P-				c uses of	Under			
.14.				decantatio,	standi			
				sedimentatio	ng			
				n,filteration,d				
				istillation,sub				
				limation,prec ipitation				

Hom .UG- HP- 1.14.	how	4.Differentiat e between filteration&di stillation	Level 2 Under standi	Must know			
Hom .UG- HP- 1.14.	Knows	5. Differentiate between decantation &filteration in detail.	Level 2 Under standi ng	Must know			
Hom .UG- HP- 1.14. 6	Does	6. Select a specific lab method according to the different processes carried out in a homoeopathi c pharmacy laboratory.	Level 3 Proble m solvin g	Desirabl e to know			
Hom .UG- HP- 1.14.	Does	7. Psyconomic Psyconom	cho Level otor 2 Contr ol	Desirabl e to know	<ol> <li>Practical Demonstrations</li> <li>Procedural</li> </ol>	1.DOPS 2.OSPE 3.Projec ts	Proceed careful carefu

		imation,preci pitation		Skills Teaching 3.Experienti al Learning		
Hom .UG- HP- 1.14. 8	Shows	8.Demonstra te care & e commitment while carrying out the different lab methods involved in preparation of homoeopathi c medicine	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 -	Assessmer	nt
	Competencies	Area	Level	Compete	Learning	sDomai	Levels	know/	Learning	/Evaluatio	n
			Does/	ncies	Objectives	n			Method	Formati	Sum
			Shows					desirable		ve	mativ
			how/								e

			Knows how/ Know					to know/Nic 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	transfer  Practice based learning and improvement		Knows	medicine s	2. Explain the individual method of standardizat ion of homoeopat hic drugs	Cogniti ve	Level 2 Understa nding	Must know	Pair- Share, Jigsaw Strategy) 3. Quiz 4. Student Seminars	4. MCQ's 5. 2 marks question 6.SAQ's 7.Projec	
Hom. UG- HP- 1.15. 3			Does		3. Estimate the standard of homoeopat hic drugs before and		Level 2 Control	Desirable to know	- 5. Flipped Classroom 6. Videos	ts	

		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 cal 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.	Does	6. Analyze the purity of mother tincture with the	Psycho motor	Level 2 Control	Nice to know			

Hom. UG- HP- 1.15. 7	Does	help of HPTLC.  7. Analyze Psycho and identify motor the purity of mother substances and dilutions with the help of U.V. Spectroscop y.
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.

**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 Competencies	Subject Area	Miller's Level Does/ Shows how/ Knows how/	Specific Competen cies	Specific Learning Objectives	Bloom's Domain	Guilbert 's Levels	Must to know/ desirable to know/Ni	Teachin g- Learning Method	Assessme /Evaluati Formati ve		
Hom II	Integration of	Quality	Knows	Must bo	1 Enumerate	Cognitiv	Lovel 1	ce to know	1 Loctur	1 Struct	100	
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 teaching	1.Struct ured Oral Examin ation 2. Tutorial s 3.	LAC SAC MC Viva Voc	Q XQ a
Hom.U G-HP- 1.16.2	Classroom to Lab transfer		Knows		2. Explain the individual method of quality control in		Level 2 Underst anding	Must Know	(Think- Pair- Share, Jigsaw	Assign ments 4. MCQ's		

	Practice based		homoeopath			Strategy	5. 2
	learning and		у			)	marks
	improvement		l ,			,	questio
	improvement					3. Quiz	n
Hom.U		Knows	3.Explain the	Level 2	Must	4.	6.SAQ's
G-HP-			functions of	Underst	Know	Student	0.5AQ 3
1.16.3			HPL in			Seminar	7.Proje
			quality	anding		S	cts
			control of			_	
			Homoeopath			5.	
			ic medicines			Flipped	
						Classroo	
						m	
Hom.U		Does	4. Determine	Level 3	Nice to	6.	
G-HP-			the quality of		Know	Videos	
1.16.4			homoeopath	Problem			
			ic medicine	solving			
			based on the				
			parameters				
			of quality				
			control				
Hom.U		Does	5. Take part	Level 3	Nice to		
G-HP-			in the	Problem	Know		
1.16.5			process of	solving			
			quality	30141118			
			control at				
			different				
			stages of				
			preparation				
			of				

			homoeopath ic medicines.						
Hom.U G-HP- 1.16.6	9	D oes, shows how	6. Demonstrate the microscopic study of triturations.	Psycho motor	Level 2 Control	Nice to Know	1. Practical Demons trations 2. Procedu ral Skills Teachin g 3.Experi	1.Spotti ng 2.Asses sment of the outcom e of researc h project s	Viva Voce & Practional Examinations
Hom.U G-HP- 1.16.7			7. Analyze the purity of mother tinctures with the help of HPTLC.		Level 2 Control	Nice to know	ential Learning  4. Researc h Projects		
Hom.U G-HP- 1.16.8		Does	8. Analyze and identify the purity of mother substances and dilutions with the help of U.V.			Nice to know			

		Spectroscop y.					
Hom.U G-HP- 1.16.9	Does	9.Abide by the rules of quality control laid down by HPL & value the importance of genuine medicine in homoeopath ic practice.	Level 3 Internalizing	Nice t know	Lecture Demons tration  2. Practical Demons tration	SAQ/LA Q Project s Assign ments	Practi al 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.	Subject	Miller's		Bloom's	Guilbert's	Must to	Assessme	nt
No	Area	Level Does/		Domain	Levels		/Evaluatio	n

	Generic		Shows how/	Specific	Specific			know/	Teaching -	Form	Summ
	Competenci es		Knows how/ Know	Competenci es	Learning Objectives			desirable	Learning Method	ative	ative
								to know/Nice to know			
Hom .UG- HP- 1.17.	Integration of Knowledge Synthesis	Ideal Laborat ory	Knows	Must be able to state the pre requisites of an ideal laboratory	List the pre requisites for an ideal Laboratory	Cognitive	Level 2 Understan ding	Must Know	1.Lecture Demonstrati ons 2. Small Group	1.Stru cture d Oral Exami natio n	LAQ SAQ MCQ Viva Voce
Hom .UG- HP- 1.17. 2	and Application of knowledge		Knows	industrial y	Formulate the Laboratory Safety Rules		Level 3 Problem solving	Nice to know	Peer teaching (Think-Pair-Share,	2. Tutori als 3.	
Hom .UG- HP- 1.17.	Problem formulation  Classroom		Knows		Describe the role of Laboratory in Homoeopath ic Pharmacy education		Level 2 Understan ding	Desirable to know	Jigsaw Strategy) 3. Quiz 4. Student Seminars 5. Guest	Assign ments 4. MCQ' s 5. 2	
	to lab transfer								Lecture	marks questi on	

				6. Problem	6.SAQ	
				based	's and	
				learning	LAQ's	

**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 Does/	Competenc	Learning	Domain	Levels	len over/	Learning	/Evalua	tion
	ies		Shows	ies	Objectives			know/	Method		
			how/	1.00				desirable		Forma	Sun
			Knows					acsirable		tive	ma
								to			ve
			how/ Know					know/Nice			
								to			
								know			

	•											-	<u> </u>
Hom.	Integration	Industri	Knows	Must	be	Explain	in	Cognitive	Level 2	Must Know	1.Lecture	1.Stru	LAC
UG-	of	al		able	to	details	the		Understan		Demonstra	ctured	SAC
HP-	Knowledge	Pharmac		correlat	e	provisio	ns		ding		tions	Oral	MC
1.18.		У		provisio	ns	under			ung		2. Small	Exami	Viv
1				related	to	Schedule	e M-				Group	nation	Voc
	Synthesis			Schedul	e	I					Discussions	2.	
	and			M1	ļ						/	Z. Tutori	
	Application				ļ						'	als	
	of										Peer		
	knowledge										teaching	3.	
					ļ						(Think-Pair-	Assign	
					ļ						Share,	ments	
					ļ						Jigsaw	4.	
	Problem				ļ						Strategy)	MCQ's	
	formulatio				ļ						3. Field		
	Tormulatio				ļ						Visit	5. 2	
	Classroom				İ						VISIL	marks	
	to lab				ļ							questi	
	transfer				ļ							on	
					ļ							6.SAQ'	
					ļ								
					ļ							s and	
					ļ							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	Area	Does/ Shows	Competencie	Learning	Domain	Levels	know/	Learning	ment	
	es		how/ Knows	S	Objectives	Domain		KIIOW/	Method	/Evalua	
			how/ Know					desirab		tion	
								le		Formati	Summ
								to		ve	ative
								know/			
								Nice to			
								know			
Hom	Integration	Vehicles	Knows	Selecting a	1.Define	Cognitive	Level 1	Must	1.Lecture	1.Struct	LAQ
.UG-	of			particular	Vehicle		Recall	Know	Demonstrat	ured	SAQ
HP-	Knowledge			solid vehicle			Recall		ions	Oral	MCQ
1.19. 1				for preparation					2. Small Group	Examin ation	Viva Voce
	Synthesis			or dispensing					Discussions	2.	
	and			of					/	Tutorial	
	Application of			homoeopath ic medicines.					Peer	S	
Hom	knowledge		Knows		2.Classify	$\dashv$	Level 2	Must	teaching	3.	
.UG-			KIIOWS		vehicles ir		LEVEI Z	Know	(Think-Pair-	Assign	
HP-					detail	•	Understan	KIIOW	Share,	ments	
1.19.					actuii		ding		Jigsaw	4.	
2									Strategy)	MCQ's	

	D I. I.	1.,	,	2 12-1 11-1		114		20:		
Hom .UG- HP- 1.19. 3	Problem formulation  Classroom to lab transfer		ínows	3. List all the solid vehicles used in homoeopath y.		Level 1 Recall	Must Know	<ul><li>3. Quiz</li><li>4. Student</li><li>Seminars</li><li>5. Guest</li><li>Lecture</li><li>6. Problem</li></ul>	5. 2 marks questio n 6.SAQ's and LAQ's	
Hom .UG- HP- 1.19. 4		K	inows	4. Explain the preparation, properties and uses of all solid vehicles		Level 2 Understan ding	Must Know	based learning		
Hom .UG- HP- 1.19. 5		D	oes	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. 6		D	oes	6. Identify the given solid vehicle.	Cognitive	Level 3 Problem solving	Must Know	1.Practical Demonstrat ion 2.Procedura I Skills Teaching	1.DOPS 2. OSPE	Practi cal Exami natior

Hom .UG- HP- 1.19.	Show How		otor	evel 2 Must know	<ul><li>3. Problem</li><li>Based</li><li>Learning</li><li>4.</li><li>Experiential</li><li>learning</li></ul>		
Hom .UG- HP- 1.19. 8	Shows how	8.Demonstra te care and commitment in preparing & dispensing of homoeopath ic medicine with accuracy		evel 1 Nice to know	1.Lecture Demonstrat ion 2.Procedura I Skills Teaching 3. Problem Based Learning 4. Experiential learning 5. Practical Demonstrat ion	1.DOPS	Practi cal Exami nation

**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 -	Assessmo	
	Competenci es	Area	Level	Competen	Learning Objective	S	Levels	know/	Learning Method	/Evaluati	
			Does/ Shows how/ Knows how/			Domai n		desirable to know/Nic e to		Formati ve	Summa tive
			Know					know			
Hom.U	Integration	Vehicles	Knows	Selecting a	1.Define	Cogniti	Level 1	Must	1.Lecture	1.Struct	LAQ
G-HP- 1.20.1 Hom.U G-HP- 1.20.2	of Knowledge  Synthesis and Application of knowledge		Knows	particular liquid vehicle for preparation or dispensing of homoeop athic medicines	2.Classify vehicles in detail 3. List all	ve	Recall  Level 2  Understan ding  Level 1	Must Know Must	Demonstrations  2. Small Group Discussions/ Peer teaching (Think-Pair-Share,	ured Oral Examin ation 2. Tutorial s 3. Assign	SAQ, MCQ Viva Voce
G-HP- 1.20.3	Problem formulation				the liquid vehicles used in homoeop athy.		Recall	Know	Jigsaw Strategy) 3. Quiz	ments 4. MCQ's	

Hans II		V.a. a.v.s	A F1-1-		1 1 2	N.A a.t	4 C+d 1	F 2	
Hom.U		Knows	4. Explain		Level 2	Must	4. Student		
G-HP-	Classroom		the		Understan	Know	Seminars	marks	
1.20.4	to lab		preparatio				5. Guest	questio	
			n,		ding			n	
	transfer		properties				Lecture		
			and uses				6. Problem	6.SAQ's	
			of all				based	and	
			liquid				learning	LAQ's	
			vehicles.				learning		
			veriicles.						
Hom.U		Does	5. Select		Level 3	Must			
G-HP-			the			Know			
1.20.5			appropriat		Problem				
			e liquid		solving				
			vehicle for						
			dispensing						
			of						
			homoeop						
			athic						
			medicines						
			,						
			potentisat						
			ion etc.						
Hom.U		Does	6. Identify	Cogniti	Level 2	Must	1.Practical	1.DOPS	Practic
G-HP-		5003	the given	ve	LCVCIZ	Know	Demonstrat	1.0013	al
1.20.6				VE	Understan	KIIOW		2. OSPE	Examin
1.20.6			liquid		ding		ion		
			vehicle.		_		2.Procedura		ation
							l Skills		
							Teaching		
							i caciiii g		

Hom.U G-HP- 1.20.7	Shows	7. Psychological	Control	Must Know	<ul><li>3. Problem</li><li>Based</li><li>Learning</li><li>4.</li><li>Experiential learning</li></ul>		
Hom.U G-HP- 1.20.8	Shows	8.Demons trate care ve and commitm ent in preparing & dispensing of homoeop athic medicine with accuracy	Level 1 Receiving	Nice to Know	1.Lecture Demonstrat ion 2.Procedura I Skills Teaching 3. Problem Based Learning 4. Experiential learning 5. Practical Demonstrat ion	1.DOPS	Practic al Examin ation

**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	valua	tion
No	c Comp etenci es	ct Area	's Level Does/ Show s how/ Know s how/ Know	Competen	Objectives	5	Domain	Levels	know/ desirable to know/Ni ce to know	Learning Method	Formative	Sum ve	mati
Hom .UG- HP- 1.21. 1 Hom .UG- HP- 1.21. 2	Integr ation of Knowl edge Synthe sis and Applic ation of	Semis olid Vehicl es	Know s Know s how	Selecting a particular semi-solid vehicle for preparatio n or dispensing of homoeop athic medicines.	1.Define V		Cognitive	Level 1 Recall  Level 2 Understand ing	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	LAQ MCC Viva Voc	-

Hom	knowl	Know	3. List all the semi-		Level 1	Must	4. Student	6.SAQ's a	nd
.UG- HP- 1.21. 3	edge	S	solid vehicles used in homoeopathy		Recall	Know	Seminars  5. Guest Lecture  6. Problem	LAQ's	
Hom .UG- HP- 1.21. 4	Proble m formul ation	Know s	4. Explain the preparation, properties and uses of all semi-solid vehicles		Level 2 Understand ing	Must Know	based learning		
	Classr oom								
Hom .UG- HP- 1.21. 5	to lab transf er	Does	5. Select the appropriate semisolid vehicle for dispensing of homoeopathic medicines, preparation of external applications etc.		Level 3 Problem solving	Must Know			
Hom .UG- HP- 1.21. 6		Does	6. Identify the given semi-solid vehicle.	Cognitive	Level 3 Problem solving	Must know	1.Practical Demonstrati on 2.Procedural Skills Teaching	1.DOPS 2. OSPE	Practic Examin ion

Hom	Show	7. Estimate the	Psychom	Level 2	Must	3. Problem		
.UG-	s how	purity of the given	otor	Control	know	Based		
HP-		semisolid vehicle.		Control		Learning		
1.21.						4.		
7								
						Experiential		
						learning		
Hom	Show	8.Demonstrate	Affective	Level 1	Nice to	1.Lecture	1.DOPS	Practical
.UG-	s how	care and		Receiving	know	Demonstrati		Examina
HP-		commitment in		Receiving		on		ion
1.21.		preparing &				2.Procedural		
8		dispensing of				Skills		
		homoeopathic				Teaching		
		medicine with				reactiling		
		accuracy				3. Problem		
						Based		
						Learning		
						4.		
						Experiential		
						learning		
						5. Practical		
						Demonstrati		
						on		

**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. No	Generic Competenc	Subject Area	Miller's Level Does/	Specific Compet	Specific Learnin	Bloom'sD omain	Guilber t's	Must to	Teaching - Learning	Assessment /Evaluation		Integr tion
	ies		Shows how/ Knows how/ Know	encies	g Objecti ves		levels	know/ desirabl e to know/ Nice to know	Method	Formative	Summ ative	
Hom .UG- HP- 1.22. 1	Integration of Knowledge  Synthesis and Application of knowledge  Problem formulatio n	External Applicatio ns	Knows	Prescri bing an externa I applica tion as per its scope and limitati ons	1.Defin e Externa l Applica tion	Cognitive	Level 1 Recall	Must	1.Lecture Demonstratio ns  2. Small Group Discussions/ Peer teaching (Think-Pair- Share, Jigsaw Strategy)  3. Quiz  4. Student Seminars  5. Guest Lecture	1.Structure d Oral Examinatio n 2. Tutorials 3. Assignment s 4. MCQ's 5. 2 marks question 6.SAQ's and LAQ's	LAQ SAQ MCQ Viva Voce	Horizo tal wir Organ n Medic ne

Hom .UG- HP- 1.22. 2  Classroom to lab transfer	Knows	2. List all the externa l applica tions	Level 1 Recall	Must know	6. Problem based learning 7. Flipped Classroom	
		used in homoe opathy				
Hom .UG- HP- 1.22. 3	Knows	3. Explain the prepara tion &uses of specific homoe opathic externa I applica tions	Level 2 Underst anding	Must		

		17		1				
Hom		Knows	4.		Level 2	Must		
.UG-			Explain		Underst	know		
HP-			the		anding			
1.22.			scope &		anung			
4			limitati					
			ons of					
			externa					
			1					
			applica					
			tions in					
			homoe					
			opathy					
Hom		Does	5.		Level 3	Must		
.UG-			Select		<b>5</b> 11	know		
HP-			the		Proble			
1.22.			approp		m			
5			riate		solving			
			vehicle					
			for					
			prepara					
			tion of					
			externa					
			applica					
			tion.					
			cion.					

T.,	T	1_			T	T	I	1	<del>                                     </del>	+
Hom		Does	6.		Level 3	Desirab				
.UG-			Select		Proble	le to				
HP-			approp			Know				
1.22.			riate		m					
6			externa	1	solving					
			ı							
			applica							
			tion a							
			per the	5						
			case.							
Hom		Does	7.Demo	Psychomo	Level 2	Must	1.Practical	1.DOPS	Practi	
.UG-		Shows how	nstrate	tor	Control	know	Demonstratio	2. OSPE	cal	
HP.1		Shows now	the		Control		n	2. USPE	Exami	
.22.7			prepara	n					nation	
			tion o				2.Procedural			
			specific				Skills			
			externa				Teaching			
			L	'			3. Problem			
			l l							
			applica				Based			
			tions				Learning			
							4. Experiential			
							learning			
Hom		Shows how	8.Demo	Affective	Level 1	Nice to	1.Lecture	1.DOPS	Practi	
.UG-		Does	nstrate		Receivi	know	Demonstratio		cal	
HP-		1000	care				n		Exami	
1.22.			and		ng		2 Dwa ac di ural		nation	
8			commit	:			2.Procedural			
			ment ir				Skills			
			prepari				Teaching			
			p. cpuii		1	1				

	ng &	3. Problem	
	dispens	Based	
	ing of	Learning	
	externa I applica tion with accurac y	4. Experiential learning 5. Practical Demonstratio n	

# **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		Must to	Teaching - Learning	Assessment /	<sup>/</sup> Evalua	tion
No	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	Sumn	nativ
Hom .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 .	Enumerate the different scales of measureme nt for	Cognitiv e	Level 1 Recall	Must	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	SA Vi

	ı	1	, , , , , , , , , , , , , , , , , , , ,	· · · · · · · · · · · · · · · · · · ·	1		<del></del>
Hom	Synthesis and applicatio n of knowledg e	Knows	2. Explain	Level	Must	6.SAQ's	
.UG- HP- 1.23. 2			the different scales of measureme nt for preparation of homoeopat hic drugs	2 Under standi ng	Know		
Hom .UG- HP- 1.23.		Does	3. Select appropriate scale of measureme nt for	Level 3	Must Know		

		preparation of homoeopat hic drugs.		Proble 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	Level 3 Auto matis m	Must know	Practical Demonstrations     Experiential Learning	1. DOPS 2. OSPE	Viva Voce Practical Examinations
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         Practical         Demonstration     </li> </ol>	1.DOPS 2.OSPE	Theory Practical Examination

**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		Integ	ratior
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	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	Orgar Medi Horiz	cine-

			105.11			I		4.6.		<u> </u>
Hom	g and	Knows	2.Explain	Cogniti	Level 2	Must	5. Student	1.Structur		
.UG-	improv		the two	ve	Understa	Know	Seminars	ed Oral		
HP-	ement		methods		nding		6.Study Tour	Examinati		
1.24.			potentisati				(Field Visit)	on		
2	Ca.t.la.a.a		on				7	2.		
	Synthes						7. Integrated	Tutorials		
	is and						Teaching with	2		
	Applica						Organon of	3.		
	tion of						Medicine	Assignmen		
	knowle							ts		
	dge							4. SAQ's		
								and LAQ's		
	Classro							5. MCQ's		
	om to							J. WICQ 3		
	lab						]			
Hom	100	Does	3. Select the	Cogniti	Level 3	Must		DOPS		
.UG-			appropriate	ve	Problem	Know		Spotting		
HP-	Practic		vehicles		solving			_		
1.24.	al skills		used for					OSPE		
3			potentisati					Assessme		
			on.					nt of PBL		
Hom		Shows	4.	Psycho	Level 3	Must	1. Practical	1.DOPS	Practical	
.UG-		How	Demonstrat	motor	AUTOMA	Know	Demonstration	2. OSPE	Examinat	
HP-			e trituration		TISM		2.Procedural		ion	
1.24.			according				Skills Teaching			
4			to the scale							
			of							
			potentisati							
			on.							
	L		1		1		1			$\vdash$

Hom	Shows	5.	Psycho	Level 3	Must	1. Practical	1.DOPS		
.UG- HP- 1.24. 5	How	Demonstrat e succussion according to the scale of potentisati on.	motor	AUTOMA TISM	Know	Demonstration  2.Procedural  Skills Teaching	2. OSPE		
Hom .UG- HP- 1.24. 6	Shows	6. Prepare 8X (Liq) potency from 6X (Triturate) (Jumping Potency)	Psycho 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.	Knows how Shoes how	7.Demonstr ate care and commitme nt in preparing medicine with accuracy	Affectiv 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	valuati	on
	Competen	Area	's	ic	Learning	Domain	s Levels	to	Learning	Formative	Sumn	aativ.
	cies		Level	Comp	Objectives	Domain		know/	Method	Formative		Iativ
			Does/	etenci				KIIOW/			е	
			Show	es				desira				
			S					ble				
			how/					1.				
			Know					to				
			S					know/				
			how/					Nice to				
			Know					know				
Hom.U	Problem	Old	Know	Must	1. Classify Old	Cognitiv	Level 2	Must	1.Lecture	1.Structured	LAQ	SAC
G-HP-	solution	Methods	S	be	Methods of	е	l la douata	know	Demonstratio	Oral	MCQ,	Viva
1.25.1		of		able	preparation		Understa		ns	Examination	Voce(	Form
		Preparati		to	of		nding		2 Small Croup	2. Tutorials	ative	
	Integratio	on of		prepa	homoeopathi				2. Small Group	Z. Tutoriais	∑	ımati
	n of	Homoeo		re the	c drugs.				Discussions/	3.	ve)	
	Knowledg	pathic		homo					Peer teaching	Assignments		
	e	Drugs		eopat					(Think-Pair-	4. MCQ's		
				hic					Share, Jigsaw	4. WICQ 5		
				medic					Strategy)	5. 2 marks		
	Synthesis			ines					3. Quiz	question		
	and			as per					3. Quiz			
	applicatio			the								

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

						1				
		according to								
		the scale.								
Hom.U	Know	5.Explain the		Level 2	Must					
G-HP-	S	potentisation		Understa	know					
1.25.5		of mother		nding						
		substances								
		under Class VII, VIII & IX								
		according to								
		the scale.								
				_						
Hom.U		6.	Psycho	Level 3		1. Practical	1. D		Practi	
G-HP- 1.25.6	Does	Demonstrate the	motor	Automati	Must	Demonstratio ns	2. 0	SPE	Exami on	nati
1.25.0		preparation		sm	know				OII	
		of mother				2. Procedural				
		tincture				Skills Teaching				
		under Class I-								
		IV according								
		to Old								
		Methods.								
Hom.U	Does	7.		Level 3	Must					
G-		Demonstrate		Automati	Know					
HP.1.25		the		sm						
.7		potentisation								
		of mother								
		tincture								

		according to the scale under Class I- IV according				
		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	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	Practi Exami 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 ncies	Learning Objectives	Domain	Levels	know/ desirabl e to know/ Nice to know	Learning Method	Formative	Summat 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 SAO 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	6. Problem based learning		

HomU		Know	4.Differenti		Level 2	Must	7. Flipped		
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	Classroom  8. Videos		
HomU G-HP- 1.26.5	Practic e based learnin g and improv ement	Know s how	5.Differenti ate between maceration & percolation in detail.		Level 2 Understan ding	Must know			
HomU G-HP- 1.26.6		Know	6. Define the terms-merc, magma, menstrum		Recall	Must know			
HomU G-HP- 1.26.7		Does		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	Practical Examina ion

		ı		ı	F	T		
HomU G-HP- 1.26.8 HomU G-HP- 1.26.9	Does	8.Demonst rate the preparation of mother solution by percolation  9. Demonstrate the towing of a		Level 2 Control  Level 2 Control	Must know  Desirab le to know			
		percolator						
HomU G-HP- 1.26.1 0	Show s 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	tical minat

		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 /Eva	aluatio	ı
	Compet encies	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	Sumn	nativ

Hom	Integrat	Pharmac	Know	Must be	1. Enumerate	Cognitiv	Level 1	Must	1.Lecture	1.Structured	LAQ	SAC
UG- HP- 1.27. 1	ion of Knowle dge  Synthes is and applicat	onomy	S	able to select appropria te route of administr ation of homoeop	the different routes of administratio n of homoeopathi c medicines.	e	Recall	know	Demonstration s  2. Small Group Discussions/ Peer teaching (Think-Pair- Share, Jigsaw	Oral Examination 2. Tutorials 3. Assignments 4. MCQ's	MCQ Voce	
Hom UG- HP- 1.27. 2	ion of knowle dge  Classro om to		Knows	athic medicines	2. Explain the different routes of administratio n of homoeopathi c medicines.		Level 2 Understand ing	Must know	Strategy) 3. Quiz 4. Flipped Classroom 6. Videos	question 6.SAQ's		
Hom UG- HP- 1.27. 3	Clinic transfer		Does		3. Select appropriate route of administratio n of homoeopathi c medicines according to the case		Level 3 Problem solving	Desirab le to know				
Hom UG- HP-					4. Administer the homoeopathi	Psychom otor	Level 2 Control	Nice to know	1. Practical Demonstration s		Viva \	/oce

1.27.	Show	c medicine	5			2.Experiential	2. Simulation		
4	s how	through				Learning	based		
		appropriate route o administration n according to the case				<ul><li>3. Projects</li><li>4. Case based</li><li>Learning</li></ul>	assessment		
		to the case				5. Simulation			
						teaching			
Hom	Know	5.Show care	e Affective	Level 2	Desirab	1. Lecture	Case based	LAQ	SAC
UG-	s how	while		Respond	le to	Demonstration	assessment	MCQ	Viv
HP- 1.27.		administerin g		Respond	know	2. Practical		Voce	
5		homoeopath c medicine				Demonstration  3. Case based	assessment		
		via differen	t			Learning			
		routes				4. Simulation teaching			
1			1	1	1	1	1	1	1

**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	ation
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	Sum e	mati
Hom UG- HP- 1.28. 1	Problem solution  Integratio n of Knowledg e	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 know	1.Lecture Demonstration s 2. Small Group Discussions/ Peer teaching (Think-Pair- Share, Jigsaw Strategy)	Assignment	LAQ MCC Voce	Q Viv
Hom UG- HP- 1.28. 2	and Applicatio n of Knowledg e  Classroo m to		Knows	Dispense homoeopa thic medicine to patients	2. Explain the various modes for dispensing of solid dosage forms		Level 2 Understand ing	Must know	<ul><li>3. Quiz</li><li>4. Student</li><li>Seminars</li><li>5. Problem</li><li>based learning</li><li>6. Guest</li><li>Lecture</li></ul>	5. 2 marks question 6.SAQ's and LAQ's		

Hom	OPD/IPD/	V	ows	2 Evalain the		Level 2	Must				
		Knc	ows	3. Explain the		Level 2					
UG-	Pharmacy			various modes		Understand	know				
HP-	transfer			for dispensing		ing					
1.28.				of liquid		3					
3				dosage forms							
Hom		Knc	ows	4. Enlist the		Level 1	Must				
UG-				vehicles used		Recall	know				
HP-				for dispensing		Recall					
1.28.				of various							
4				dosage forms							
<u> </u>											
Hom		Knc	ows	5. Explain the		Level 2	Nice to				
UG-				quality		Understand	know				
HP-				assurance		ing					
1.28.				while		6					
5				dispensing							
				homoeopathic							
				medicines.							
Hom		Sho	ows	6.	Psychom	Level 2		1.Practical	1.DOPS	Pract	tical
UG-		hov		Demonstrate	otor			Demonstration		Exam	
HP-		1101	.	the dispensing	0.01	Control	Must		2. OSPE	on	
1.28.		Doe	es	of liquid			know	2.Procedural			
6				dosage forms				Skills Teaching			
0				uosage ioiilis				3. Problem			
								Based Learning			
Hom		Sho	ows	7.		Level 2	Must	Dased Learning			
UG-		hov		Demonstrate		LEVELZ	know	4. Experiential			
		1100	vv			Control	KIIUW	learning			
HP-		Doe	es	the dispensing							

1.28. 7		of solid dosage forms						
Hom UG- HP- 1.28. 8	Does	8. Demonstrate care and commitment while dispensing of homoeopathic medicines.	Affective	Level 1 Receiving	Nice to know	<ul><li>1.Lecture</li><li>Demonstration</li><li>3. Problem</li><li>Based Learning</li></ul>	1.DOPS	ctical minat

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	Summative

		Т		1	1		T	T	T	Т		T	1	
HP- 1.29. 1 Integrati on of Knowle dge  Hom Synthesi UG- HP- 1.29. on of 2 knowled ge  Hom UG- HP- Integrati on of Knowle dge  Hom Synthesi was a palicati 1.29. 2 Integrati case  Kno ws and HP- applicati 1.29. 3 Integrati on of Knowled ge  Hom UG- HP- Integrati on of Knowled ge  Hom Synthesi was a palicati 1.29. Classroo HP- Integrati on of Knowled ge  Hom UG- HP- Integrati on of Knowled ge  Indicate placebo in a particular case  Recall  Recall  Level 1 Recall  Must Know  Recall  Must Know  Strategy)  3. Assignments 4. MCQ's 6.SAQ's, 7.Projects  Famination Voce 2. Tutorials  4. MCQ's 6.SAQ's, 7.Projects  Understan ding  Understan ding  Hom UG- HP- Integrati on of Caseroo Hom to clinic transfer  Does  A. Select a placebo for a particular  Problem solving  Problem solving		Problem	Placeb	Kno		be	1. Define	Cognit	Level 1	Must	1.Lecture	1.Structured		SAC
Horn   Log		solution	0	ws			Placebo	ive	Recall	Know	Demonstrations			Viva
1.19. Integration of Knowle dge    Mode									rteean		2 Small Group	Examination	Voce	
Thom Synthesi UG- HP- Logs and UG- HP- Logs and UG- HP- Logs are to clinic transfer HOM UG- Logs are to clinic transfer HOM UG- HP- Logs are to clinic transfer HOM UG- HP- Logs are to clinic and the indication for a particular aparticular and the indication for a particular aparticular apartic	1.29.				·						1	2 Tutorials		
Knowle dge  Knowle dge  Knowle dge  Knowled ge  Knowled used as placebo  Knowled ge  Knowl	1	_			a partic	ular								
Hom UG-HP-1.29.  Hom UG-HP-1.29.  Does    Grade   Grad		on of			case						_	3. Assignments		
Hom Synthesi UG- HP- 1.29. On of 2 knowled ge  Hom UG- HP- 1.29. 3  Hom UG- HP- 1.29.											1 '	4. MCQ's		
Hom UG-HP- 1.29. Classroo m to 1.29. 3 Classroo m to 1.29. 4.Select a placebo for a particular Problem solving		uge										E 2 marks		
Hom UG-HP- 1.29. 3 Classroo m to 1.29. 4.Select a placebo for a particular Problem solving Synthesi S and Hom UG-HP- 1.29. Classroo m to 1.29. 4.Select a placebo for a particular Synthesis Synthes											Strategy)			
UG- s and HP- applicati 1.29. on of 2 knowled ge  Hom UG- HP- 1.29. 3 Explain the indication ns of placebo  Hom UG- HP- 1.29. 3 Does  Hom UG- HP- 1.29. 4.Select a placebo  Hom UG- HP- 1.29. 5 Does  Hom UG- HP- 1.29. 6.SAQ's, 7.Projects  Recall Know Must Know  Understan ding  Level 2 Must Know  Understan ding  Level 3 Must Know  Problem solving  Now Must Know  Problem solving	Цот	Synthosi		Vno	1		2		Lovel 1	Muct	3. Case based	question		
HP- 1.29. on of 2 knowled ge  Hom UG- HP- 1.29. 3 Hom UG- HP- 1.29. 3 Hom UG- HP- 1.29. 4.Select a placebo  Does  Does  Does  Recall  7.Projects  A.Select a placebo  Level 2 Understan ding  Must Know  Understan ding  Level 3 Problem Solving  Must Know  Problem Solving		1 -							reveri		learning	6.SAQ's,		
1.29. on of knowled ge  Hom UG-HP-1.29. 3  Hom UG-HOM UG-HP-1.29. 3  Hom UG-HP-1.29. 1  Does				ws					Recall	KIIOW		7.Projects		
Rowled ge														
Hom UG- HP- 1.29. 3 Hom UG- Hom UG- HP- 1.29. 3 Hom UG- HP- 1.29. Books of placebo  I Level 2 I Must I Know Understan ding  I Level 3 I Must I Level 3 I Must I Know I Must I Mus														
Hom UG-HP-1.29.  Hom UG-HP-1.29.  Hom UG-HP-1.29.  Hom UG-HP-1.29.  Hom UG-HP-1.29.  Does  Level 2  Understan ding  Level 3  Problem solving  Must  Know  How Solving  Must  Know  How Solving  Hom Solving	2													
UG- HP- 1.29. 3  Ws  the indicatio ns of placebo  Does  4.Select a placebo for a particular  Ws  Understan ding  How UG- HP- 1.29.		gc					ріасеро							
HP- 1.29.  HOM UG- HP- 1.29.  Classroo m to clinic transfer  Does  A.Select a placebo for a particular  Indicatio ns of placebo  Level 3  Problem solving  Problem solving	Hom			Kno			3. Explain		Level 2	Must				
HP- 1.29. a m to clinic transfer  Hom UG- HP- 1.29. a particular    HP-   Indicatio   ns of placebo   ling    UG-	Classroo		ws			the		Undorstan	Know					
1.29. clinic transfer  Hom UG-HP-1.29. clinic transfer  Does  No placebo  A.Select a placebo for a particular  particular  Does  No placebo  Level 3  Problem solving  Problem solving	HP-						indicatio							
Transfer  Hom UG- HP- 1.29.  placebo  4.Select a placebo placebo placebo placebo placebo placebo placebo problem solving	1.29.						ns of		ung					
Hom UG- HP- 1.29. Does 4.Select a placebo for a particular Problem solving Problem	3						placebo							
UG- HP- 1.29. placebo for a particular Problem solving Know	Hom			Does	-		1 Salact a		Level 3	Muct	-			
HP- 1.29. Problem solving				Dues					Level 3					
1.29. particular solving							1 _		Problem	KIIOW				
									solving					
Tase Lase							1							
	-						Case							

**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 Learning	Bloom's		Must to	Teaching -	Assessment /E	valuation	
No	tencies	Area	s Level Does/ Shows how/ Know s how/ Know	Compete	Objectives	Domain	s Levels	know/ desirable to know/Nice to know	Learning Method	Formative	Summat	tive
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.	_	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

	,	 ,	1					,	T		ı	
Hom		Does		3. Select	an		Level 3	Must		7.Projects		
UG- HP- 1.30. 3	Classro om to Clinic transfe r			appropriate mode preservation homoeopathi medicines.			Problem solving	Know				
	Practic e based learnin g and improv ement											
Hom UG- HP- 1.30. 4		Does		4. Demonstrathe method preservation mother substances preparations	of of &	Psychom otor	Level 2 Control	Desirable to Know	<ol> <li>Practical Demonstrations</li> <li>Procedural Skills</li> <li>Teaching</li> </ol>	Viva Voce Practical Examination	Practica Examina n	
Hom UG- HP- 1.30. 5		Does		5. Demonstrathe method preservation potentised homoeopathi medicines	of of			Desirable to Know	3.Experiential Learning 4. Projects			

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

**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

			Bloom's	Must to		/Evalu	ation

Sr.	Generic	Subject	Miller's	Specific	Specific	Domain	Guilber	know/	Teaching -	Formative	Summ
No	Competenc ies	Area	Level Does/	Competen cies	Learning Objectives		t's levels	desirable	Learning Method		е
			Shows				3.3.5	to			
			how/					know/Ni			
			Knows					ce to			
			how/								
			Know					know			
Hom	Problem	Pharma	Knows	Must be	1. Define	Cognitiv	Level 1	Must	1.Lecture	1.Structure	LAQ
UG- HP-	solution	covigila nce and		able to identify	adverse drug reaction	е	Recall	Know	Demonstrati ons	d Oral Examinatio	MCQ Voce
1.31.	' 	adverse		any					2. Small	n	
1	Integration	drug		adverse					Group	2. Tutorials	
Hom	of	reaction	Knows	drug	2. Enumerate	1	Level 1	Must	Discussions/		
UG-	Knowledge	nowledge		reaction	the types of		Recall	Know		3.	
HP-	' 			Comprehe	adverse drug		Recall		Peer teaching (Think-Pair-	Assignment s	
1.31.	Synthesis			nd the of	reactions				Share, Jigsaw		
2	and			pharmaco vigilance					Strategy)	4. MCQ's	
Hom	application		Knows	in	3. Explain the	-	Level 2	Must	3. Case based	5. 2 marks	
UG-	of		INTO VV 3	homoeopa	management			Know	learning	question	
HP-	knowledge			thy	of adverse		Unders			6.SAQ's,	
1.31.					drug reactions		tanding			7.Projects	
3	Classroom				in						
	to clinic				homoeopathy						
Hom	transfer		Knows	] ;	4.Define	]	Level 1	Desirable	]		
UG-	' 				pharmacovigil		Recall	to Know			
HP-					ance		,cuii				
1.31.											
4	'										

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

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

1.32. 4	Hom UG- HP- 1.32. 3	Knowl edge  Synth esis and applic ation of knowl edge	Shows 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.  4.Select a remedy for a one -sided case	Level 3 Proble m solving  Level 3 Proble	Nice know	to	<ul> <li>4. Student Seminars</li> <li>5. Case based learning</li> <li>6.Case Simulation</li> <li>7. Experiential Learning</li> </ul>	7.Projects 8.Assessment of case 9. Simulation		
doctrine of l	1.32. 4 Hom UG- HP- 1.32.		Shows hows		based on the doctrine of signature  5.Demonstrate care, professionalism & commitment while prescribing on the basis of	solving Level 2 Respo		to	learning 2. Case Simulation 3.Experiential	of case 2. Simulation	Viva	Voce

**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	Guilbert' s level	Must to	Teaching - Learning	Assessment /Evaluation		Int tio	egra n
	ncies	Area	Does/ Shows how/ Knows how/ Know	encies	Objectives	Domain		know/ 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 Or n Me	rizon with gano of edici
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></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	7. Integrated 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</li> <li>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				

[III. IIII.	D	140 141-4-1	1. 12	NI' I				
HomUG- HP- 1.33.10	Does	10. Interprete the provers symptoms	Cognitiv 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.	Affective Level 2 Responding	Nice to know	<ol> <li>Lecture Demonstrati on</li> <li>Procedural Skills Teaching</li> <li>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 Internal 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 Internal 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.

5	Sr. No	Generic	Sub	Miller'	Specific	Specific	Bloom'	Guilbert'	Must to	Teaching -	Assessment /E	valuation	Integ	rati
		Compet	ject	s Level	Compete	Learning	S	s Levels	know/	Learning Method			on	
		encies	Are	Does/	ncies	Objectives			KITOWY					
			а	Shows		-	Domain		desirabl		Formative	Summative		
				how/					e					
				Knows										

			how/ Know					to know/ Nice to know				
HomU G-HP- 1.34.1	Proble m solutio n Integra tion of Knowle dge	Pos olo gy	Knows	Selecting a particula r potency for a particula r case. Selecting a particula r dose for	1.Define posology	Cogniti ve	Level 1 Recall	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 SAQ MCQ Viva Voce	with non
HomU G-HP- 1.34.2	Practic e based learnin g and improv ement  Synthes		Knows	a particula r case. Repeatin g the dose as per the criteria for repletion	2.Explain the criteria for selection of potency		Level 2 Understan d	Must know	Seminars  5. Guest Lecture  6. Integrated Teaching with Organon of Medicine  7. Case based learning	6.SAQ's and LAQ's  7. Simulation based assessment  8. Case based assessment		
HomU G-HP- 1.34.3	is and applicat ion of knowle dge		Knows	of doses.	3.Apply the criteria for selection of potency for a particular case.		Level 3 Problem solving	Desirab le to know	8. Case simulation learning			

HomU G-HP- 1.34.4	Classro om to OPD/IP D	Knows	4. Enlist the different types of doses	Level 1 Recall	Must know				
HomU G-HP- 1.34.5	transfer	Knows	5. Explain the criteria for repetition of doses.	Level 2 Understa nding	Must know				
HomU G-HP- 1.34.6		Shows	6.Apply the criteria for repetetion of doses for a particular case.	Level 3 Problem Solving	Desirab le to know				
HomU G-HP- 1.34.7		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> <li>Team based learning</li> </ol>	1.Simulation based assessment 2. Case based assessment 3. OSPE	LAQ SAQ MCQ Practical Examinati on	

HomU G-HP- 1.34.8	Does	8. Choose the proper dosage for a particular case	Level 3 Desirab Problem Solving le to	6.Case based learning 7. Case simulation learning			
HomU G-HP- 1.34.9	Does	9. Design the dosage and repetition for a particular case	Level 3 Nice to know Solving				
HomU G-HP- 1.34.1 0	Shows	10.Show professional ism and care while selection of potency & dose.	Respond Nice to know	1.Lecture Demonstration 2.Procedural Skills Teaching 3. Problem Based Learning 4. Experiential learning	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 Nice to know e	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	lice to	7. Case simulation learning		
HomU G-HP- 1.34.1 3	Shows how	13. Value the importance of rational prescription	lice to			

**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 /	′Evalua	tion
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	Sumn	nativ
Hom UG- HP- 1.35.	Integratio n of Knowledg e	Prescri ption Writing	Knows	Writing an ideal prescription	1.Define Prescription writing.	Cognitive	Level 1 Recall	Must Know	1.Lecture Demonstration s 2. Small Group Discussions/	1.Structure d Oral Examinatio n 2. Tutorials	LAQ MCQ Voce	
Hom UG- HP- 1.35.	Practice based learning and improve ment		Knows		2.Explain the parts of an ideal prescription.		Level 2 Understan ding	Must Know	Peer teaching (Think-Pair- Share, Jigsaw Strategy) 3. Quiz 4. Student	<ul><li>3.</li><li>Assignment</li><li>s</li><li>4. MCQ's</li><li>5. 2 marks</li><li>question</li></ul>		
Hom UG- HP- 1.35. 3	Synthesis and applicatio n of knowledg e		Knows		3. List the abbreviations used in prescription writing with meaning.		Level 1 Recall	Must Know	Seminars  5. Guest Lecture  6. Case based learning	6.SAQ's and LAQ's		

	,	Т			T	1	1	T	1	
Hom		Knows	4. Explai		Level 2	Must	7. Case			
UG-			advanta	ges	Understan	Know	simulation			
HP-			of		ding		learning			
1.35.	Problem		prescrip		J8					
4	solution		to	the						
			patients							
			to	the						
	Classroo		physicia	n.						
	m to									
	OPD/IPD									
Hom	Transfer	Shows	5. Crit	tically	Level 3	Nice to				
UG-		how	analyse	a	Problem	know				
HP-			prescrip	tion	solving					
1.35.			for any f	aults.	Solving					
5										
Hom		Does	6. Write	e an Psychom	Level 2	Must	1. Lecture	1.Simulatio	Pract	ical
UG-			ideal	otor	Control	know	Demonstration	n based	Exam	inati
HP-			prescrip	tion	Control		2.Procedural	assessment	on	
1.35.							Skills Teaching	2. Case		
6							JKIIIS TCaching	based		
							3. Problem	assessment		
							Based Learning	a33C33111C11C		
Hom		Shows	7. Critic	ize a Cognitive	Level 3	Nice to	4. Experiential	3. OSPE		
UG-		how	wrong		Problem	know	learning			
HP-			prescrip	tion	solving		icarring			
1.35.					Solvilla		5. Team based			
7							learning			
							6.Case based			
							learning			
							icariiiig			

								<ul><li>7. Case simulation learning</li><li>8. Practical Demonstration</li></ul>			
Hom			8.Show	Affective	Level 2		to	1.Lecture	1.Simulatio	Pract	
UG-			professionalis		Respond	know		Demonstration	n based	Exam	inati
HP-			m and		3-1			2.Procedural	assessment	on	
1.35.			commitment					Skills Teaching			
8			while writing a prescription					3. Problem			
			with					Based Learning			
		Shows how	accuracy.					<ul><li>4. Experiential learning</li><li>5. Team based learning</li><li>6. Case based</li></ul>			
Hom			9. Value the		Level 3	Nice	to	learning			
UG-			privacy &		Internalize	know					
HP-			integrity of					7. Case			
1.35.			the					simulation			
9			prescription.					learning			
Hom	-		10. Value the		Level 3	Nice	to	8. Practical			
UG-			ethical		Internalize	know		Demonstration			
HP-			consideration		internanze						
			s during								

1.35.			writing a				
10			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			Must to	Teaching -	Assessment /	Evalua <sup>•</sup>	tion
No	Compete	ct Area	Level Does/ Shows how/ Knows how/ Knows	Competen cies	Objectives	Domain	s Levels	know/ desirable to know/Ni ce to know	Learning Method	Formative	Sumn	nativ

Hom	Integrati	Legisl	Knows	Must be	1.List all the acts	Cognitiv	Level 1	Must	1.Lecture	1.Structure	LAQ	Viva
UG- HP- 1.36. 1 Hom UHP- 1.36.	on of Knowled ge  Synthesi s and Applicati on of knowled ge	ation	Knows	able to follow and practice ethically all the laws that govern homoeopa thic pharmacy.	that govern the legal aspects of homoeopathic pharmacy.  2. Illustrate the provisions under the Drugs &	e	Recall  Level 2  Understa	know Must know	Demonstration s  2. Small Group Discussions/ Peer teaching (Think-Pair- Share, Jigsaw Strategy) 3. Quiz	d Oral Examinatio n 2. Tutorials 3. Assignment s 4. MCQ's 5. 2 marks	Voce	VIVE
Hom UG- HP- 1.36.	Problem solution		Knows		3. Illustrate the provisions under the Schedule M1		Level 2 Understa nding	Must know	4. Student Seminars  5. Guest Lecture  6. Problem based learning	question 6.SAQ's and LAQ's		
Hom UG- HP- 1.36. 4			Knows		4. Illustrate the provisions under the Drugs & Magic Remedies Act		Level 2 Understa nding	Must know	7. Flipped Classroom			
Hom UG- HP- 1.36. 5			Knows		5. Illustrate the provisions under the Medicinal & Toilet Preparation Act		Level 2 Understa nding	Must know				

			Т	Т		1			
Hom UG- HP- 1.36. 6	Knows	6. Illustrate the provisions under the Dangerous Drugs Act		Level 2 Understa nding	Must know				
Hom UG- HP- 1.36. 7	Knows	7. Illustrate the provisions under the Prevention of Illicit Traffic in Narcotic Drugs & Psychotropic Substances Act		Level 2 Understa nding	Must know				
Hom UG- HP- 1.36. 8	Knows	8. Illustrate the provisions under the Homoeopathic Central Council Act		Level 2 Understa nding	Must know				
Hom UG- HP- 1.36. 9	Does Shows how	9.Demonstrate the labelling of homoeopathic medicine according to Part IX of the Drugs &	Psychom otor	Level 2 Control	Must know	1.Practical Demonstration 2.Procedural Skills Teaching 3. Problem Based Learning	1.DOPS 2. OSPE	LAQ Practic Examir on	

		Cosmetic 1940	Act				4. Experiential learning				
Hom UG- HP- 1.36. 10	Knows	10.Demons care commitmed and abide by provisions down in various acts	and nt by the laid the	Level 1 Receivin g	Nice know	to	1.Lecture Demonstration 3. Problem Based Learning	Role Assess	Play ment	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

C	Canani	Ch:	NA:How/o	Cassifia	Cassifia	Dia a mada	Cuille aut/a	N 4	Tacabina	Λ a a a a a a a a ± /Γ	نده ساه د	
Sr.	Generi	Subj	Miller's	Specific	Specific	Bloom's	Guilbert's	Must to	Teaching -	Assessment /E	vaiuati	ווט
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	Sumn	nativ
Hom UG- HP- 1.37. 1	Integra tion of Knowl edge	Drug Actio n	Knows	Must be able to differentia te the different mechanis ms of drug	1. Classify the different types of drug action.	Cognitive	Level 2 Understan ding	Nice to Know	1.Lecture Demonstration s 2. Small Group Discussions/	1.Structured Oral Examination 2. Tutorials 3. Assignments	LAQ MCQ Practi Exam n	inatio

		ı		I		1	T	1		-	
Hom	Synthe		Knows	action of	2. Explain the		Level 2	Desirable	Peer teaching	4. MCQ's	
UG- HP- 1.37. 2	sis and applica tion of knowle dge			homoeopa thic medicines	individual family drug action according to their sphere of action.		Understan ding	to Know	(Think-Pair-Share, Jigsaw Strategy) 3. Quiz 4. Flipped Classroom	<ul><li>5. 2 marks question</li><li>6.SAQ's</li><li>7.Projects</li><li>8. Spotting</li></ul>	
Hom		-	Knows		3. Explain the	1	Level 2	Desirable	6. Videos		
UG-	Classro				individual			to Know			
HP-	om to				family drug		Understan		7. Integrated		
1.37.	Clinic				action		ding		Teaching		
3	transfe				according to						
	r				nature of						
					drug & family						
					relationship.						
11			D		A A	C:	112	NI's a la	4 Desilies	4. Carallian	
Hom UG-			Does		4. Analyze the action of	Cognitive	Level 3	Nice to know	<ol> <li>Practical Demonstration</li> </ol>	1. Spotting	 <b></b>
HP-					drug on		Problem	KIIUW	s Demonstration	2. Pharmaco-	
1.37.					patients.		solving			logical action	
4					•				2.Experiential	of 30 drugs as	
									Learning	specified in	
Hom			Does		5. Co-relate	1		Nice to	3. Projects	journal	
UG-					the action of			know		3. Projects	
HP-					drugs with						
1.37.					the family						
5					characteristic						
					S.						
											-

UG- HP- 1.37. 6 In prescribing homoeopathi c medicine based on action of drugs and drug	Hom	Knows	6.Show care	Affective	Level 2	Must	1. Lecture	Journal	
relationships.	UG- HP- 1.37.	Kilows	in prescribing homoeopathi c medicine based on action of drugs and drug				2. Integrated teaching of Pharmacologic al drug action with Materia		

**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	Compete	en	Learning	's	s Levels	know/	Learning	nt		
			Does/	cies		Objectives	Doma		KIIOW/	Method	/Evaluatio		
			Shows				in		desirable		n		
			how/						to		Form	Sum	ma
			Knows						know/Nice		ative	tive	
			how/ Know						to				
			KIIOW						know				
HomUG-	Problem	Relation	Knows	Must l	рe	1. Explain the	Cognit	Level 2	Desirable to	1.Lecture	1.Structur	SAQ	
HP	formulation	of		able	to	correlation of	ive	Understa	Know	Demonstr	ed Ora	Viva	
1.38.1		Pharmacy		correlate	j	homoeopathic		nding		ations	Examinati	Voce	ة
1.50.1		with		homoeo	р	pharmacy with		ITIGITIS			on		

HomUG- HP- 1.38.2 HomUG- HP-	Integration of Knowledge  Synthesis and application of knowledge	Materia Medica	Knows	athic pharmacy with material medica, Anatomy and Physiolog y	the basics of Homoeopathic Materia Medica.  2. Explain the correlation of homoeopathic pharmacy with the basics of Anatomy  3. Explain the correlation of		Desirable to Know  Desirable to Know	2. Small Group Discussion s/ Peer teaching (Think- Pair- Share, Jigsaw Strategy) 3. Quiz	Tutorials  3. Assignmen ts  4. MCQ's  5. 2 marks question  6.SAQ's, LAQ's	
1.38.3					homoeopathic pharmacy and Physiology			<ul><li>4. Student</li><li>Seminars</li><li>5. Flipped</li><li>Classroom</li></ul>	7.Projects	
HomUG- HP- 1.38.4			Knows how		4.Apply the principles of posology during case taking after selection of similimum based on knowledge of Homoeopathic	 Level 3 Problem Solving	Desirable to know	<ol> <li>Practical Demonstr ation</li> <li>Lecture Demonstr ation</li> <li>Experimen</li> </ol>	1. DOPS 2. OSPE 3. Evaluation of projects 4. Evaluation of case	

				T . •		<del>                                     </del>
		Materia		tal	based	
		Medica.		Research	learning	
				projects	5.	
				4. Case	Evaluation	
				based	of PBL	
				learning	6.	
HomUG- Kr	nows	5. Apply the	Desirable to	5. Problem	Evaluation	
HP- ho	ow	knowledge of	know	based	of Case	
1.38.5		drug action		learning	simulation	
		based on		_		
		familial		6. Case		
		relationship		simulation		
		and remedy				
		relationship as				
		noted in				
		Homoeopathic				
		Materia				
		Medica and				
		organ affection				
		with anatomy				
HomUG- Kr	nows	6. Apply the	Desirable to			
	ow	knowledge of	know			
1.38.6		sources of				
		drugs and				
		collection of				
		drugs while				
		preparation of				
		homoeopathic				
		medicines				
		according to				

HomUG- HP- 1.38.7	Knows	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	how	8.Demonstrate care, professionalis m & commitment & follow all the guidelines meticulously as given in 6 <sup>th</sup> edition of Organon of medicine while selecting a particular homoeopathic medicine in a particular potency.	ffecti Level 1 e Receivin g	Nice to know	<ol> <li>Practical Demonstr ation</li> <li>Lecture Demonstr ation</li> <li>Experimen tal Research projects</li> <li>Case based learning</li> </ol>	<ol> <li>DOPS</li> <li>OSPE</li> <li>Evaluation of projects</li> <li>Evaluation of case based learning</li> <li>Evaluation of PBL</li> <li>Evaluation</li> </ol>	Viva Voce

		5. Problem of Case based simulation learning
HomUG- HP- 1.38.9	9. Demonstrate care, professionalis m & 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.	6. Case simulation

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	
	Organon of	
	medicine while	
	prescribing a	
	particular	
	external	
	application for	
	a particular	
	case.	
lomUG-	11. Should	
IP-	ensure that all	
1.38.11	the resources	
	are used to the	
	fullest without	
	any wastage	
	while	
	preparing	

		homoeopathic medicine.				
		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	Guilbert'	Must to	Teaching -	Assessment /Eva	aluatio	ı
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	Sumn ve	nati
Ho mU G- HP- 1.3 9.1	Proble m solutio n	Recent advance ments and scope of research in	Knows	Must be able to undertak e a short term research in	1.Enumerate the types of research in homoeopathi c pharmacy	Cognitiv e	Level 1 Recall	Nice to know	1.Lecture Demonstration s 2. Small Group Discussions/	1.Structured Oral Examination 2. Assignments 3. MCQ's		_

	Integra	Homoeo		Homoeo				Peer teaching	4.SAQ's	
	tion of	pathic		pathic				(Think-Pair-		
	Knowle	Pharma		Pharmac				Share, Jigsaw		
	dge	су		у				Strategy)		
Но	-		Knows		2.Explain the	Level 2	Nice to	3. Visit to		
mU G-	Synthes is and				recent advancement	Understa nding	Know	research laboratories		
HP- 1.3 9.2	applicat ion of				s in the field of homoeopathi					
	knowle dge				c pharmacy					
Но			Does		3.Design the	Level 3	Nice to			
mU G-	Classro				protocol for a short term	Problem solving	know			
HP-	om to				research					
1.3	lab				proposal in					
9.3	transfer				homoeopathi c pharmacy					

#### **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	noeopathic 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

	<b>al Work</b> – Maintain Record (Activities/Posting in Dispensing Section, Prescriptions based on Homoeopathic Princi Record to be maintained as per format in Appendix G- 20 Hours
<b>Seminar</b> – Mai	ntain Record on Seminar Presentation on Topics of Homoeopathic Pharmacy as assigned- 07 Hours
	Page <b>140</b> of <b>162</b>

#### 9. ASSESSMENT

## **Assessment Summary**

# 9A- Number of papers and Mark Distribution

Course Code	Papers	Theory	Practical	Viva	Internal	Electi	ves	Grand Total
				Voce	Assessment-	Grade	9	
					Practical	Obtai	ned	
HomLIG-HP	1	100	50	40	10			100
nomod m	_	100	30	40				100
	Course Code HomUG-HP	·	,		Voce	Voce Assessment- Practical	Voce Assessment- Grade Practical Obtain	Voce Assessment- Grade Practical Obtained

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

Sr. No		1 <sup>st</sup> term (1-6 Months)		2 <sup>nd</sup> Term (7-12 Months)				3 <sup>rd</sup> Term (13-18 Months)				
1	First Professional BHMS	1 <sup>st</sup> PA 10 Practio	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		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 Ivial KS)	(10 Marks)	(10 Marks)	PA1+PA2+PA3/3	(SU IVIAI KS)	(50 Marks)		Marks
Α	В	_	PAITPAZTPAS/S	E	_	G	D+G/2
	Ь	C	D		F		D+G/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	50 marks
LAQ	40 marks

# 9 E-I - Distribution of Theory exam

Sr. No	Paper			Type of Questions  "Yes" can be asked.  "No" should not be asked.			
	A	В	С	MCQ	SAQ	LAQ	
	List of Topics	Term	Marks	(1 Mark)	(5	(10 Marks)	
					Marks)		
1	General Concepts and Orientation	I	Refer	Yes	Yes	No	
2	Raw Material: Drugs and Vehicles		─ Next Table	Yes	Yes	Yes	
3	Homoeopathic Pharmaceutics	II		Yes	Yes	Yes	
4	Pharmacodynamics			Yes	Yes	Yes	
5	Quality Control	II		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 Orientation	I	11	Yes	Yes	No
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	10	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 A
	10 Questions	3. Theme B
	5 Marks Each	4.Theme B
	All compulsory	5. Theme C
	Must know part: 9 SAQ	6. Theme C
	Desirable to know: 1 SAQ	7. Theme D

	Nice to know: Nil	8. Theme E
		9. Theme E
		10. Theme G
Q3	Long answer Questions	1. Theme B
	(LAQ)	2. Theme C
	4 Questions	3. Theme D
	10 marks each	4. Theme F
	All compulsory	
	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.
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APPE	APPENDIX – A				
List c	List of drugs included in the syllabus of Homoeopathic Pharmacy 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

APPEN	APPENDIX – B		
List of	List of drugs for identification		
i.	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. Cl	emicals or Minerals
1.	Acetic acid
2.	Alumina
3.	Argentum Metallicum
4.	Argentum Nitricum

. Anin 1. 2. 3. 4.	Mal Kingdom  Apis mellifica  Blatta orientalis  Formica rufa  Sepia  Tarentula cubensis
1. 2. 3.	Apis mellifica Blatta orientalis Formica rufa
1. 2.	Apis mellifica  Blatta orientalis
1.	Apis mellifica
. Anin	nal Kingdom
11.	Sulphur
10.	Natrum Muriaticum
9.	Magnesium Phosphoric
8.	Graphites
7.	Carbo Vegetabilis
_	Calcarea Carbonica
6.	

Appendix C			
List of Instrument & Applian	ices for Demonstration & Study		
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			

# **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

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