# CURRICULUM DOCUMENT M.D. (Homoeopathy) Homoeopathic Pharmacy

### I. TITLE OF THE SPECIALITY COURSE, AND ITS ABBREVIATION.

M.D. (Homoeopathy) Homoeopathic Pharmacy.; Hom-PG- HP

#### II. COMPONENTS OF THE CURRICULUM

### II (1). Part I

- (i) Fundamentals of Homoeopathic Pharmacy.
- (ii) Fundamentals of Clinical Medicine in Homoeopathic Pharmacy; and
- (iii) Research Methodology and Biostatistics.

### II (2). Part II

- (i) Homoeopathic Pharmacy. Paper 1
- (ii) Homoeopathic Pharmacy. Paper 2.

# III. BRIEF DESCRIPTION OF SPECIALITY AND ITS RELEVANCE IN HOMOEOPATHY POST-GRADUATE COURSE.

Homoeopathic Pharmacy prospects with discovering and manufacturing new medicines in an industrial set-up along with their quality assurance, effectiveness, drug laws and pharmaceutical ethics binding them. With the ever-expanding Homoeopathic Pharmaceutical industries, the course shall deal with administration, production management, marketing strategies, communication, sales and distribution channels.

The fundamental sciences like Chemistry, Botany, Zoology, Physics, specially biophysics and quantum physics serves to provide a stronghold to the subject of Homoeopathic Pharmacy. With preclinical research conducted in the pharmacy field, answers to the age-old question about the action of homoeopathic medicines have been presented. Adhering to the principles of Homoeopathy, integrating with Homoeopathic Philosophy and Materia Medica, the new paths of Agro-Homoeopathy and Veterinary Homoeopathy have been explored under Pharmacy showcasing the beautiful results by our medicines.

As medicines serve as a strong backbone for a prescription, understanding the concepts of clinical trial, rational use of drugs, posology, pharmacovigilance, medical auditing, and hospital pharmacy is necessary during patient care.

The study of Homoeopathic Pharmacy at the postgraduate level is to create good academicians and clinicians along with trained professionals for Pharmacovigilance, Pharmaceutical industries, Pharmacopoeia Commission, Regulatory bodies, as Research officers and Scientific writers.

# IV. COURSE OBJECTIVES. (ENTRUSTABLE PROFESSIONAL ACTIVITIES – EPAS)

- 1. Collect information necessary to ensure the quality, purity, and stability of drugs by conducting a series of standardisation tests to assay the role of a **drug analyst** in the Homoeopathic Pharmaceutical industry.
- 2. Perform **Good Manufacturing Practices (GMP)** in the Homoeopathic Pharmaceutical Industry at every stage of manufacturing for distribution and consumption of drugs.
- 3. Demonstrate qualities of **Good Marketing skills** in Homoeopathic Pharmacy professionals.
- 4. Perform duties of an academician by imparting knowledge of Homoeopathic Pharmacy for postgraduates through lectures and conducting guest lectures by experts for enhancing the subject depth of Homoeopathic Pharmaceutical Industries.
- 5. Provide medication-related expertise/ consultation as a homoeopathic physician and as a part of an interprofessional health care team in homoeopathic hospitals.
- 6. Report adverse drug reactions and /or medication errors (Pharmacovigilance).
- 7. Perform administrative responsibilities for inventory level checking, drug order review, and coordination with outside vendors in hospital pharmacies.
- 8. Collect authenticated drug sources for primary assays in Plants and chemicals.
- Function in R and D branch to design research protocol to ensure pharmaco-therapeutic
  follow-up, interpret data, analyse results and publish records in International and UGC
  care journals.
- 10. Perform specific laboratory skills that are required for new drug development.
- 11. Internalise the essential skills in industrial manufacturing processes for the preparation of homoeopathic medicines.
- 12. Manage medication stores and plan for medication budgets by way of providing statistics for medicine consumption.
- 13. Conduct preclinical & clinical research relevant to validate the sphere of action and efficacy of homoeopathic medicines.
- 14. Develop the domain of Agro homoeopathy by conducting research on plants for assessing the effect of homoeopathic medicines on growth & production, biotic and abiotic stresses along with undertaking treatment of various plant diseases.
- 15. Develop the domain of Veterinary Homoeopathy through clinical research conducted on animals.
- 16. Formulate new drugs.
- 17. Publish evidence-based documentation of Homoeopathic Pharmacy based on experimentation and clinical research outcomes in credible journals.
- 18. Consistently demonstrate characteristics of self-directed learning by recognising continuing educational needs with the conduction of seminars, conferences, CMEs and workshops.
- 19. Apply various teaching-learning techniques for imparting undergraduate and postgraduate education.

# IV (1). MAPPING OF EPASAND DOMAIN COMPETENCIES

KS: Knowledge & Scholarship

PC: Patient care

HO : Homoeopathic OrientationCS : Communication skillsPBL : Practice based learning

**Prf** : Professionalism

Sl.	EPA	IZO	DC	шо	CC	DDI	D.C
No	(Entrustable Professional Activities)	KS	PC	НО	CS	PBL	Prf
1.	Collect information necessary to ensure the quality, purity, and stability of drugs by conducting a series of standardisation tests to assay the role of a <b>drug analyst</b> in the Homoeopathic Pharmaceutical industry.	<b>V</b>	-	V	-	V	V
2.	Perform Good Manufacturing Practices (GMP) in the Homoeopathic Pharmaceutical Industry at every stage of manufacturing for distribution and consumption of drugs.	-	-	$\checkmark$	V	· <del>-</del>	V
3.	Demonstrate qualities of <b>Good Marketing skills</b> in Homoeopathic Pharmacy professionals.	√	-	√	√	$\sqrt{}$	√
4.	Perform duties of an academician by imparting knowledge of Homoeopathic Pharmacy for postgraduates through lectures and conducting guest lectures by experts for enhancing the subject depth of Homoeopathic Pharmaceutical Industries.	V	-	V	V	$\sqrt{}$	ı
5.	Provide medication-related expertise/ consultation as a homoeopathic physician and as a part of an interprofessional health care team in homoeopathic hospitals.	V	V	V	V	-	V
6.	Report adverse drug reactions and /or medication errors (Pharmaco vigilance).	-	√	-	√	-	√
7.	Undertake administrative responsibilities for inventory level checking, drug order review, and coordination with outside vendors in hospital pharmacies.	-	-	-	√	-	<b>√</b>
8.	Collect authenticated drug sources for primary assays in Plants and chemicals.	<b>V</b>	-	<b>√</b>	-	$\sqrt{}$	-

0	Experiencia D. and D. branch to design						
9.	Function in R and D branch to design						
	research protocol to ensure pharmaco-	. 1		.,		.1	. /
	therapeutic follow-up, interpret data,	$\sqrt{}$	-	\ \ \ \ \	-	V	V
	analyse results and publish records in						
	International and UGC care journals.						
10.	Perform specific laboratory skills that are		_		1		_
	required for new drug development.	'		<u> </u>	,	,	
11.	Internalise the essential skills in industrial						
	manufacturing processes for the	-	_		√		-
	preparation of homoeopathic medicines.						
12.	Manage medication stores and plan for						
	medication budgets by way of providing	$\sqrt{}$	_				
	statistics for medicine consumption.						
13.	Conduct preclinical & clinical research						
	relevant to validate the sphere of action		_		_	$\checkmark$	
	and efficacy of homoeopathic medicines.						
14.	Develop the domain of Agro						
	homoeopathy by conducting research on						
	plants for assessing the effect of						
	homoeopathic medicines on growth&		_		_		
	production, biotic and abiotic stresses	·		,		·	,
	along with undertaking treatment of						
	various plant diseases.						
15.	Develop the domain of Veterinary						
13.	Homoeopathy through clinical research	$\sqrt{}$	_	1	_		V
	conducted on animals.	•		,		<b>,</b>	•
16.	Formulate new drugs.	<b>√</b>		<b>√</b>	1	<b>√</b>	V
17.	Publish evidence-based documentation of	V		· ·	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	V	V
17.	Homoeopathic Pharmacy based on						
	experimentation and clinical research	-	-	-	√	-	
	outcomes in credible journals.						
18.	Consistently demonstrate characteristics						
10.	of self-directed learning by recognising						
	continuing educational needs with the	_	_			1	1
	conduction of seminars, conferences,	_	_	_	_	, v	<b>'</b>
	CMEs and workshops.						
10							
19.	Apply various teaching-learning				V	2/	2/
	techniques for imparting undergraduate	٧			V	٧	V
	and postgraduate education.						

# IV(2). SEMESTER WISE TABLE EPA LEVELS AND COMPETENCIES APPLICABLE TO EACH EPA.

### EPA Level:-

- $1 = No \ permission \ to \ act$
- 2 = Permission to act with direct, proactive supervision present in the room
- 3 = Permission to act with indirect supervision, not present but quickly available if needed
- 4 = Permission to act under distant supervision not directly available (unsupervised)
- 5 = Permission to provide supervision to junior trainees

Sl.	EPAs	Hom	-PG- HP- Pa	rt – I	Hom-PG- HP- Part – II		
no		Sem /Mod1	Sem /Mod2	Sem/Mod3	Sem/Mod4	Sem/Mod5	Sem /Mod6
1.	Collect information necessary to ensure the quality, purity, and stability of drugs by conducting a series of standardisatio n tests to assay the role of a drug analyst in the Homoeopathic Pharmaceutica I industry.	EPA LEVEL: 1 Study the ideal methods of standardisa tion of drugs			EPA LEVEL: 2 Perform the series of standardisatio n tests to assay the role of a drug analyst in the Homoeopathi c Pharmaceutic al industry.	EPA LEV	
2.	Perform Good Manufacturing Practices (GMP) in the Homoeopathic Pharmaceutica 1 Industry at every stage of manufacturing for distribution and consumption of drugs.				EPA LEVEL: 2  Perform Good Manufacturin g Practices (GMP) in the Homoeopathi c Pharmaceutic al Industry at every stage of manufacturin	EPA LEV	

				g for distribution and consumption of drugs.		
3.	Demonstrate qualities of Good Marketing skills in Homoeopathic Pharmacy professionals.			EPA LEVEL: 2  Understand qualities of Good Marketing skills in Homoeopathic Pharmacy professionals.	EPA LEVEL: 3 Demonstr ate qualities of Good Marketin g skills in Homoeop athic Pharmacy professio nals.	
4.	Perform duties of an academician by imparting knowledge of Homoeopathic Pharmacy for postgraduates through lectures and conducting guest lectures by experts for enhancing the subject depth of Homoeopathic Pharmaceutica 1 Industries.	Perform duties of an academicia n by imparting knowledge of Homoeopat hic Pharmacy for postgraduat es through lectures and conducting guest lectures by experts for enhancing the subject	EPA LEVEL: 3  Perform duties of an academicia n by imparting knowledge of Homoeopat hic Pharmacy for postgraduat es through lectures and conducting guest lectures by experts for enhancing the subject			EPA LEVEL: 5  Guiding the juniors

	1	T			I	I	
		depth of	depth of				
		Homoeopat	Homoeopat				
		hic	hic				
		Pharmaceut	Pharmaceu				
		ical	tical				
		Industries.	Industries.				
5.	Provide	EPA	EPA	EPA			EPA
	medication-	LEVEL: 2	LEVEL: 3	LEVEL:			LEVEL: 5
	related			4			
	expertise/	Learn the	Case	_			Guiding the
	consultation	case	manageme	Understan			juniors
	as a	manageme	nt with	d the			Juniors
	homoeopathic	nt with	interprofes	cardinal			
	physician and	homoeopat	sional	principles			
	as a part of an	hic drugs.	experts	of			
	interprofessio	me drugs.	experts	homoeopa			
	nal health care			thy and its			
	team in			applicatio			
	homoeopathic			n in			
	hospitals.			selection			
	nospitais.			of			
				simillimu			
6.	Report	EPA	EPA	m	EPA	EPA	
0.	adverse drug	LEVEL: 2	LEVEL: 3		LEVEL: 4	LEVEL:	
	reactions and	Understand	Observing		Apply this	4	
	/or medication	ing the	&		knowledge in	Apply	
	errors	adverse	analysing		clinical	this	
	(Pharmacovigi	drug	the adverse		practice.	knowledg	
	lance).	reactions in	drug		practice.	e in	
	Tance).	the cases	reactions in			clinical	
			the cases				
		during the				practice.	
		house job.	during the				
			house job.				
7.	Undertake	EPA	EPA	EPA		EPA	
	administrative	LEVEL:2	LEVEL: 3	LEVEL:		LEVEL:	
	responsibilitie			4		4	
	s for inventory	Understand	Learn the				
	level	ing the	process of	Learn the		Applicati	
	checking, drug	process of	drug order	coordinati		on in	
	order review,	inventory	review	on skills		clinical	
	and	level		and		practice	
	coordination	checking		Liasoning		1	
	1		1		1	r	

	with outside			with		
	vendors in			outside		
	hospital			vendors in		
	pharmacies.			hospital		
				pharmacy		
8.	Collect	EPA	EPA	EPA		
	authenticated	LEVEL: 2	LEVEL: 3	LEVEL:3		
	drug sources	Understand	Understand	Process of		
	for primary	the concept	the concept	collection		
	assays in	of	of	under the		
	Plants and	authenticati	authenticati	supervisio		
	chemicals.	on and the	on and the	n of		
		rules for	rules for	experts		
		the	the	like		
		collection	collection	Botanist /		
		of	of	zoologist/		
		authenticat	authenticat	chemist		
		ed sources	ed sources	during		
		of drugs	of drugs	internship		
				at		
				pharmace		
				utical		
				industry		

9.	Function in R	EPA	EPA	EPA	EPA	EPA	EPA
	and D branch	LEVEL: 1	LEVEL:2	LEVEL	LEVEL: 4	LEVEL:	LEVEL: 5
	to design			:3		4	
	research	Understand	Execution			Function	Guiding the
	protocol to	ing the	of the	Execution	Function in R	in R and	Juniors.
	ensure	fundamenta	Research	of the	and D branch	D branch	
	pharmaco-	ls of Pre-	Knowledge	Research	to design	to design	
	therapeutic	clinical&	in clinical	Knowledg	research	research	
	follow-up,	Clinical	practice.	e in	protocol to	protocol	
	interpret data,	Research		clinical	ensure	to ensure	
	analyse results			practice	pharmaco-	pharmaco	
	and publish				therapeutic	-	
	records in				follow-up,	therapeuti	
	International				interpret data,	c follow-	
	and UGC care				analyse	up,	
	journals.				results and	interpret	
					publish	data,	
					records in	analyse	
					International	results	
					and UGC	and	
					care journals.	publish	
						records in	
						Internatio	
						nal and	
						UGC care	
						journals.	
10.	Perform	EPA Level			EPA	EPA	
	specific	:1			LEVEL :2	LEVEL	
	laboratory	Study the			Perform	:3	
	skills that are	concept of			specific	Perform	
	required for	different			laboratory	specific	
	new drug	Laboratory			skills that are	laboratory	
	development.	skills			required for	skills that	
		required			new drug	are	
		for new			development.	required	
		drug				for new	
		developme				drug	
		nt.				developm	
11.	Internalise the	EPA	EPA	EPA	EPA	ent.	EPA
11.	essential skills	LEVEL: 1	LEVEL :2	LEVEL:2	LEVEL: 2		LEVEL :5
	in industrial	1010 4 1010, 1	L. 1 L	1010 V 1010,2			3. 14 v au
	manufacturing	Understand	Perform	Applicatio			Guiding the
	processes for	ing the	the role of	n of this	Application		Juniors.
	the	concept of	a drug	knowledg	of this		Juiii015.
	ше	concept of	a urug	Kilowieug	or uns		

	preparation of	Drug	analyst in	e in the	knowledge in		
	homoeopathic	Standardisa	relations to	departmen	the Industrial		
	medicines.	tion.	drug	tal	laboratory		
	meanomics.	tion.	standardisa	laboratory	level.		
			tion.	luoorator	10 ( 01.		
12.	Manage	EPA	EPA	EPA	EPA		EPA
	medication	LEVEL: 2	LEVEL:3	LEVEL:4	LEVEL: 4		LEVEL: 5
	stores and		122, 22.5				<b>122</b> , 123 -
	plan for	Understand	Understand	Understan			Guiding the
	medication	ing the	ing the	ding the	Understandin		Juniors
	budgets by	concept of	rules of	rules of	g the		
	way of	GMP and	different	different	practical		
	providing	its	stages of	stages of	aspects of		
	statistics for	fundamenta	manufactur	manufactu	different		
	medicine	ls.	ing,	ring,	stages of		
	consumption.		distribution	distributio	manufacturin		
	1		and	n and	g,		
			consumptio	consumpti	distribution		
			n of drugs.	on of	and		
				drugs.	consumption		
					of drugs at		
					the industry		
					level during		
					the		
					Internship.		
13.	Conduct	EPA	EPA	EPA	_		EPA
	preclinical &	LEVEL: 2	LEVEL:3	LEVEL			LEVEL: 5
	clinical			:4			
	research	Understand	Execution				Guiding the
	relevant to	ing the	of the	Execution			Juniors
	validate the	fundamenta	Research	of the			
	sphere of	ls of Pre-	Knowledge	Research			
	action and	clinical&	in clinical	Knowledg			
	efficacy of	Clinical	practice.	e in			
	homoeopathic	Research		clinical			
	medicines.			practice			
14.	Develop the	EPA	EPA	EPA	EPA		EPA
	domain of	LEVEL: 2	LEVEL: 3	LEVEL:4	LEVEL: 4		LEVEL: 5
	Agro	Understand	Applicatio	Applicatio	Application		Guiding the
	homoeopathy	ing the	n of	n of	of this		Juniors
	by conducting	concept of	Homoeopat	Homoeop	knowledge in		
	research on	Agro	hic	athic	the Industrial		
	plants for	homoeopat	Medicines	Medicines	laboratory		
	assessing the	hy.	in plant	in plant	level.	l	İI

	effect of homoeopathic medicines on growth& production, biotic and abiotic stresses along with undertaking treatment of various plant diseases.		diseases as well as growth and production of plants / crops in Agriculture	diseases as well as growth and productio n of plants / crops in Agricultur e.			
15.	Develop the domain of Veterinary Homoeopathy through clinical research conducted on animals.	EPA LEVEL: 2  Understand ing the veterinary diseases.	EPA LEVEL:3 Homoeopat hic manageme nt of veterinary diseases.	EPA LEVEL :4 Apply in practice			EPA LEVEL: 5 Guiding the Juniors.
16.	Formulate new drugs.	EPA LEVEL: 1 Understand ing the basics of pharmaceut ical infrastructu re.			EPA LEVEL: 2  Exposure to the Production of medicines at the industry level during Internship.		EPA LEVEL: 5 Guiding the Juniors.
17.	Publish evidence- based documentation of Homoeopathic Pharmacy based on experimentati on and clinicalresearc h outcomes in credible			EPA LEVEL:3  Publicatio n of Articles in Peer Reviewed Journals under the supervisio n of the Guide.		EPA LEVEL: 3 Publicatio n of Articles in Peer Reviewed Journals under the supervisio n of the	

	journals.					Guide.	
18.	Consistently demonstrate characteristics	EPA LEVEL :2	EPA LEVEL :2				EPA LEVEL: 5
	of self-directed learning by recognising continuing educational needs with the conduction of seminars, conferences, CMEs and	Conduction of intradepart mental seminars.	Conduction of interdepart mental seminars.				Guiding the Juniors for seminars.
19.	workshops. Apply various	EPA	EPA	EPA	EPA	EPA	EPA
	teaching- learning	LEVEL :2	LEVEL:3	LEVEL :3	LEVEL:4	LEVL :5	LEVEL:5
	techniques for imparting undergraduate and postgraduate education.	Justify the need for educational methodolo gy as a component of PG Course.	Identify the learning objectives for their domain in Bloom's taxonomy . Identify the contexts of learning.	Recognis e the levels of Guilbert. Indicate the level in Miller's Pyramid. Select appropriat e instructio nal	Write objectives for all domains of Bloom and levels of Guilbert. Identify assessment tools appropriate for the context.	Conduct evidence driven TL and Assessme nt of UG students.	Apply various teaching- learning techniques for imparting undergradu ate and postgradua e education.

### PART - I; Paper 1: FUNDAMENTALS OF HOMOEOPATHIC PHARMACY

#### V. TOPICS AND TOPIC OBJECTIVES.

# Part – I: Paper 1: FUNDAMENTALS OF HOMOEOPATHIC PHARMACY (HOM-PG-FHP)

• Hom-PG-FHP-01 : Philosophy and Development of Homoeopathic Pharmacy

• Hom-PG-FHP-02 : Homoeopathic Pharmacopoeia

• Hom-PG-FHP-03 :Pharmaconomy

• Hom-PG-FHP-04 : Knowledge of Drug Substance (Pharmacognosy and

Pharmacology)

• Hom-PG-FHP-05 : Drug Proving

• Hom-PG-FHP-06 : Homoeopathic Pharmaceutics

#### **COURSE CONTENT**

# • Hom-PG-FHP-01: PHILOSOPHY AND DEVELOPMENT OF HOMOEOPATHIC PHARMACY

- o The basis of development of Homoeopathic Pharmacy.
- The different schools of medicine with emphasis on Introduction, principles of pharmaceutics & their inter-relationship.
- The concept of Potentization and its development with difference between homoeopathic pharmacy during and after Hahnemann's time.

### • Hom-PG-FHP-02: HOMOEOPATHIC PHARMACOPOEIA

 Preparation of homoeopathic medicines by abiding by the guidelines of homoeopathic pharmacopoeias.

#### • Hom-PG-FHP-03: PHARMACONOMY

- o The various routes of administration in general and in Homoeopathy.
- o The principles of Pharmacokinetics.

# • Hom-PG-FHP-04: KNOWLEDGE OF DRUG SUBSTANCE (PHARMACOGNOSY AND PHARMACOLOGY)

- Learning of pharmacognosy and pharmacology to identify drug from different sources, collect & preserve for preparation of homoeopathic medicines.
- o Phytochemistry and Phytoconstituents of drug substances and their action.
- o Toxicological Dose and Toxicological action of Homoeopathic drugs.
- The scientific basis of mode of action of homoeopathic medicines through concept of Nanotechnology.

### Hom-PG-FHP-05: DRUG PROVING

O Hahnemannian Proving and Homoeopathic Pathogenetic Trial (HPT)

## • Hom-PG-FHP-06: HOMOEOPATHIC PHARMACEUTICS

- Preparation of Potentised medicines, mother preparation with its preservation,
   Formulation and Dispensing of Homoeopathic medicine.
- The safety rules to be observed during preparation of medicines in manufacturing unit.

### VI. COURSE DESCRIPTION

**TOPIC NAME: Hom-PG-FHP-01:** 

### PHILOSOPHY AND DEVELOPMENT OF HOMOEOPATHIC PHARMACY

Topic	This Topic will provide students of M.D. Hom (Homoeopathic Pharmacy)					
Overview	with an overview about evolution of Pharmacy with emphasis on					
Overview	Homoeopathic Pharmacy and the contribution of pioneers in its					
	development.					
	Hom-PG-FHP-01 - 01:					
	110111-1 G-1 111 -01 - 01,					
	UNDERSTANDING THE BASIS OF DEVELOPMENT OF					
Learning	HOMOEOPATHIC PHARMACY					
Outcome	KNOWLEDGE:					
Outcome	i) Illustrate the history of Pharmacy with emphasis on					
	Homoeopathic Pharmacy					
	ii) Enumerate the contribution of pioneers in development of					
	Pharmacy.					
	SKILL:					
	This includes specialized skills like understanding of					
	homoeopathic principles and their implementation in preparing					
	homoeopathic medicines.					
	REFLECTION:					
	Reflect on the evolution of homoeopathic pharmacy through the					
	contribution of pioneers					
Topic	This Topic will provide students of M.D.Hom (Homoeopathic Pharmacy)					
overview	with an overview on different schools of Medicine (Allopathy, Ayurveda,					
	Homoeopathy, Siddha, Unani).					

	Hom-PG-FHP-01 - 02:
	IDENTIFYING THE DIFFERENT SCHOOLS OF MEDICINE – WITH EMPHASIS ON INTRODUCTION, PRINCIPLES OF PHARMACEUTICS & THEIR INTER-RELATIONSHIP
Learning	KNOWLEDGE:
Outcome	<ul><li>i) Describe the fundamental principles of pharmaceutics of different schools of medicines.</li><li>ii)Appraise the interrelationship between different schools of medicines.</li></ul>
	SKILL:
	This includes the applicable skills to practice the concepts relating to pharmaceutics of different schools of medicine.
	REFLECTION:
	Develop a fair understanding of merits and demerits of different
	schools of medicine.
Topic	This Topic will provide students of M.D. Hom (Homoeopathic Pharmacy)
overview	with an overview on theory of Homoeopathic Dynamisation along with its
	evolution during and after Hahnemannian era.  Hom-PG-FHP-01 - 03:
Learning Outcome	UNDERSTAND THE CONCEPT OF POTENTISATION AND ITS DEVELOPMENT WITH DIFFERENCE BETWEEN HOMOEOPATHIC PHARMACY DURING AND AFTER HAHNEMANN'S TIME.
	VANOVII ED CE
	KNOWLEDGE:  i) Elaborate the concept of Dynamization as per Hahnemann
	ii) Analyse the evolution of Dynamisation during and after
	Hahnemannian era
	SKILL:
	Perform the methods of dynamization in pharmacy laboratory
	REFLECTION:
	Determine the competencies to perform dynamization as per
1	Homoeopathic principles.
<u>Learning</u> Methods	Homoeopathic principles.  REFLECTIVE LEARNING, & LIBRARY BASED LEARNING
Methods	REFLECTIVE LEARNING, & LIBRARY BASED LEARNING

Prescribed	Refer to list attached				
texts:					
Domains of	Knowledge	and	Skill/Homoeopathic	Orientation/Practice	based
Competencies	learning				
:					

# **TOPIC NAME:** HOM-PG-FHP -02:

# HOMOEOPATHIC PHARMACOPOEIA

Topic	This Topic will provide students of M.D. Hom (Homoeopathic							
Overview	Pharmacy) with an overview on official and unofficial Homoeopathic							
	Pharmacopoeias with special emphasis on HPI.							
	Hom-PG-FHP-02 - 01:							
	FORMULATE PREPARATION OF HOMOEOPATHIC							
Learning	MEDICINES BY ABIDING BY THE GUIDELINES OF							
Outcome	HOMOEOPATHIC PHARMACOPOEIAS							
	KNOWLEDGE:							
	i) Document the evolution& development of Homoeopathic							
	Pharmacopoeia							
	ii) Classify Homoeopathic Pharmacopoeias							
	iii) Describe official (GHP, HPUS, BHP, HPI- vol. 1 to 10) and							
	unofficial pharmacopoeia (M. Bhattacharya's Pharmacopoeia,							
	Encyclopaedia of Homoeopathic Pharmacopoeia- PN Varma &							
	InduVaid)							
	iv) Discuss Presentation patterns and comparison of different							
	Pharmacopoeias.							
	v) Summarise the salient features of Homoeopathic							
	Pharmaceutical codex							
	SKILL:							
	This includes understanding of guidelines and standards for the							
	preparation and quality control of homoeopathic drugs besides							
	practical skills relating to trituration and succussion.							
	REFLECTION:							
	Distinguish the contrasting features of different homoeopathic							
	pharmacopoeias							
Learning	PROBLEM – BASED LEARNING, LAB – BASED LEARNING,							
Methods	DELIBERATE PRACTICE.							
Assessment:	Continuous/ Programmatic assessment/ Written assessment/ Practical							
	Assessment							
	LAQ / SAQ; Checklist, Ratting Scales, Rubric							

Prescribed	Refer to list attached			
texts:				
Domains of	Knowledge and Skill/Homoeopathic Orientation			
<b>Competencies:</b>				

# **TOPIC NAME:** HOM-PG-FHP -03:

# **PHARMACONOMY**

Topic	This Topic will provide students of M.D. Hom (Homoeopathic						
overview	Pharmacy) with an overview on concept of Pharmaconomy to Identify						
	administration of drugs through routes applicable to the disease.						
	Hom-PG-FHP-03 - 01:						
Learning							
Outcome	UNDERSTAND THE VARIOUS ROUTES OF						
	ADMINISTRATION IN GENERAL AND IN HOMOEOPATHY						
	LNOWLEDGE.						
	KNOWLEDGE:						
	i) Determine the modes of administration of homoeopathic						
	medicines, its merits and demerits						
	SKILL:						
	Demonstrate the administration of homoeopathic medicines in						
	clinical practice						
	REFLECTION:						
	Interpret the effectiveness of various modes of administration						
Topic	This Topic will provide students of M.D. Hom (Homoeopathic						
overview	Pharmacy) with an overview on Pharmacokinetics						
	Hom-PG-FHP-03 - 02:						
Learning	UNDERSTAND THE PRINCIPLES OF PHARMACOKINETICS						
Outcome	KNOWLEDGE:						
	i) Define Pharmacokinetics						
	ii)Illustrate the path of travel of drug in the body as per the						
	principles of Pharmacokinetics.						
	iii) Discuss the concept of Absorption, Distribution,						
	Biotransformation, Excretion of drugs.						
	SKILL:						
	Construct a virtual map of drug action as per Pharmacokinetics.						
	REFLECTION:						
	Predict the effect of medicines in patients.						
<b>Learning</b>	CASE – BASED LEARNING, BEDSIDE LEARNING,						
<b>Methods</b>	DELIBERATE PRACTICE.						

Assessment:	Continuous/ Programmatic assessment/ Written assessment/ Practical				
	Assessment				
	SAQ; DOPS, Checklist				
Prescribed	Refer to list attached				
texts:					
Domains of	Knowledge and Skill/Homoeopathic Orientation/ Patient care/Practice				
<b>Competencies:</b>	based learning				

## **TOPIC NAME:**HOM-PG-FHP-04:

# KNOWLEDGE OF DRUG SUBSTANCE (PHARMACOGNOSY AND PHARMACOLOGY)

Topic	This Topic will provide students of M.D. Hom (Homoeopathic				
overview	Pharmacy) with an overview on concept of Pharmacognostic and Pharmacological effects of homoeopathic drugs.				
	Hom-PG-FHP-04 - 01:				
	ENSURE LEARNING OF PHARMACOGNOSY AND				
	PHARMACOLOGY TO IDENTIFY DRUG FROM DIFFERENT				
	SOURCES, COLLECT & PRESERVE FOR PREPARATION OF				
Learning Outcome	HOMOEOPATHIC MEDICINES.				
	KNOWLEDGE:				
	i) Explore the salient features of Pharmacognosy				
	ii)Summarise the basic principles of Pharmacology				
	SKILL:				
	Perform procedures for identification of drug substance for				
	macroscopic and microscopic characteristics in departmental pharmacy laboratory (as listed in Appendix 3)				
	REFLECTION:				
	Relate the relevance of Pharmacognosy, and Pharmacology in clinical practice				
Topic	This Topic will provide students of M.D. Hom (Homoeopathic				
overview	Pharmacy) with an overview on Phytochemistry and Phytoconstituents of				
	drug substances				
	Hom-PG-FHP-04 - 02:				
	UNDERSTAND PHYTOCHEMISTRY AND				
	PHYTOCONSTITUENTS OF DRUG SUBSTANCES AND THEIR				
	ACTION				
Learning	KNOWLEDGE:				
Outcome	i) Discuss the concept of Phytochemistry				

	<ul> <li>ii) Differentiate the significance of action of Phytoconstituents of five (5) polychrest drug substances (As listed in Appendix 1)</li> </ul>				
	SKILL: This includes knowledge of chemistry, biochemistry, botany and plant taxonomywith understanding of morphology and life cycle of plants, analytical technique such as chromatography (HPLC), spectrophotometry, etc. Practical understanding of pharmacology, pharmacokinetics and phytoconstituents, molecular biology techniques.				
	REFLECTION:				
	Analyse the phytochemical action of drugs				
Topic overview	This Topic will provide students of M.D. Hom (Homoeopathic Pharmacy) with an overview on Toxicological Dose and Toxicological				
Overview	action of Homoeopathic drugs				
	Hom-PG-FHP-04 - 03:				
	UNDERSTAND TOXICOLOGICAL DOSE AND TOXICOLOGICAL ACTION OF HOMOEOPATHIC DRUGS				
Learning	KNOWLEDGE:				
Outcome	<ul> <li>i) Critique the concept of Toxicological Dose</li> <li>ii)Illustrate the Toxicological action of drug substances of five</li> <li>(5) Homoeopathic drugs (as listed in Appendix 2)</li> </ul>				
	ii)Illustrate the Toxicological action of drug substances of five				
	ii)Illustrate the Toxicological action of drug substances of five				
	ii)Illustrate the Toxicological action of drug substances of five (5) Homoeopathic drugs (as listed in Appendix 2)  SKILL:  This includes understanding of dose-response relationships and mechanisms of action to comprehend the toxicological action of				
	<ul> <li>ii)Illustrate the Toxicological action of drug substances of five (5) Homoeopathic drugs (as listed in Appendix 2)</li> <li>SKILL: This includes understanding of dose-response relationships and mechanisms of action to comprehend the toxicological action of homoeopathic drugs.</li> </ul>				
Topic	ii)Illustrate the Toxicological action of drug substances of five (5) Homoeopathic drugs (as listed in Appendix 2)  SKILL:  This includes understanding of dose-response relationships and mechanisms of action to comprehend the toxicological action of homoeopathic drugs.  REFLECTION:  Review the toxicological action of drugs in clinical practice  This Topic will provide students of M.D. Hom (Homoeopathic				
Topic overview	ii)Illustrate the Toxicological action of drug substances of five (5) Homoeopathic drugs (as listed in Appendix 2)  SKILL:  This includes understanding of dose-response relationships and mechanisms of action to comprehend the toxicological action of homoeopathic drugs.  REFLECTION:  Review the toxicological action of drugs in clinical practice  This Topic will provide students of M.D. Hom (Homoeopathic Pharmacy) with an overview on Homoeopathic Pharmacodynamics and				
•	ii)Illustrate the Toxicological action of drug substances of five (5) Homoeopathic drugs (as listed in Appendix 2)  SKILL:  This includes understanding of dose-response relationships and mechanisms of action to comprehend the toxicological action of homoeopathic drugs.  REFLECTION:  Review the toxicological action of drugs in clinical practice  This Topic will provide students of M.D. Hom (Homoeopathic				
•	ii)Illustrate the Toxicological action of drug substances of five (5) Homoeopathic drugs (as listed in Appendix 2)  SKILL:  This includes understanding of dose-response relationships and mechanisms of action to comprehend the toxicological action of homoeopathic drugs.  REFLECTION:  Review the toxicological action of drugs in clinical practice  This Topic will provide students of M.D. Hom (Homoeopathic Pharmacy) with an overview on Homoeopathic Pharmacodynamics and Introduction to Nanotechnology in relation to Homoeopathic medicines				
•	ii)Illustrate the Toxicological action of drug substances of five (5) Homoeopathic drugs (as listed in Appendix 2)  SKILL:  This includes understanding of dose-response relationships and mechanisms of action to comprehend the toxicological action of homoeopathic drugs.  REFLECTION:  Review the toxicological action of drugs in clinical practice  This Topic will provide students of M.D. Hom (Homoeopathic Pharmacy) with an overview on Homoeopathic Pharmacodynamics and Introduction to Nanotechnology in relation to Homoeopathic medicines  Hom-PG-FHP-04 - 04:  INTERPRET THE SCIENTIFIC BASIS OF MODE OF ACTION				
overview	ii)Illustrate the Toxicological action of drug substances of five (5) Homoeopathic drugs (as listed in Appendix 2)  SKILL:  This includes understanding of dose-response relationships and mechanisms of action to comprehend the toxicological action of homoeopathic drugs.  REFLECTION:  Review the toxicological action of drugs in clinical practice  This Topic will provide students of M.D. Hom (Homoeopathic Pharmacy) with an overview on Homoeopathic Pharmacodynamics and Introduction to Nanotechnology in relation to Homoeopathic medicines  Hom-PG-FHP-04 - 04:  INTERPRET THE SCIENTIFIC BASIS OF MODE OF ACTION OF HOMOEOPATHIC MEDICINES THROUGH CONCEPT OF				
•	ii)Illustrate the Toxicological action of drug substances of five (5) Homoeopathic drugs (as listed in Appendix 2)  SKILL:  This includes understanding of dose-response relationships and mechanisms of action to comprehend the toxicological action of homoeopathic drugs.  REFLECTION:  Review the toxicological action of drugs in clinical practice  This Topic will provide students of M.D. Hom (Homoeopathic Pharmacy) with an overview on Homoeopathic Pharmacodynamics and Introduction to Nanotechnology in relation to Homoeopathic medicines  Hom-PG-FHP-04 - 04:  INTERPRET THE SCIENTIFIC BASIS OF MODE OF ACTION OF HOMOEOPATHIC MEDICINES THROUGH CONCEPT OF NANOTECHNOLOGY				
overview Learning	ii)Illustrate the Toxicological action of drug substances of five (5) Homoeopathic drugs (as listed in Appendix 2)  SKILL:  This includes understanding of dose-response relationships and mechanisms of action to comprehend the toxicological action of homoeopathic drugs.  REFLECTION:  Review the toxicological action of drugs in clinical practice  This Topic will provide students of M.D. Hom (Homoeopathic Pharmacy) with an overview on Homoeopathic Pharmacodynamics and Introduction to Nanotechnology in relation to Homoeopathic medicines  Hom-PG-FHP-04 - 04:  INTERPRET THE SCIENTIFIC BASIS OF MODE OF ACTION OF HOMOEOPATHIC MEDICINES THROUGH CONCEPT OF NANOTECHNOLOGY  KNOWLEDGE:				
overview Learning	ii)Illustrate the Toxicological action of drug substances of five (5) Homoeopathic drugs (as listed in Appendix 2)  SKILL:  This includes understanding of dose-response relationships and mechanisms of action to comprehend the toxicological action of homoeopathic drugs.  REFLECTION:  Review the toxicological action of drugs in clinical practice  This Topic will provide students of M.D. Hom (Homoeopathic Pharmacy) with an overview on Homoeopathic Pharmacodynamics and Introduction to Nanotechnology in relation to Homoeopathic medicines  Hom-PG-FHP-04 - 04:  INTERPRET THE SCIENTIFIC BASIS OF MODE OF ACTION OF HOMOEOPATHIC MEDICINES THROUGH CONCEPT OF NANOTECHNOLOGY				

	iii)Relate the concept of Nanotechnology with homoeopathic				
	pharmacy.				
	SKILL: This includes the practical skills relating to applications of page				
	This includes the practical skills relating to applications of nano				
	technology which involves manipulating and utilising materials				
	at the nano scale level in order to comprehend how				
	homoeopathic medicines mat interact with the body at the nano				
	scale and influence biological processes				
	REFLECTION:				
	Verify the dynamic action of drugs in clinical practice.				
Learning	PROBLEM - BASED LEARNING, LAB - BASED LEARNING,				
Methods	DELIBERATE PRACTICE.				
Assessment:	Continuous/ Programmatic assessment/ Written assessment/ Practical				
	Assessment				
	LAQ / SAQ ; DOPS, Checklist, Ratting Scales.				
Prescribed	Refer to list attached				
texts:					
Domains of	Knowledge and Skill/Homoeopathic Orientation/ Patient care/ Practice				
Competencies	based learning				
•					

**TOPIC NAME:** HOM-PG-FHP -05:

# **DRUG PROVING**

Topic	This Topic will provide students of M.D. Hom (Homoeopathic Pharmacy) with an						
overview	overview on Proving homoeopathic medicines on human beings and animals						
Learning Outcome	Hom-PG-FHP-05 - 01:  UNDERSTANDHAHNEMANNIAN PROVING AND HOMOEOPATHIC PATHOGENETIC TRIAL (HPT)						
	KNOWLEDGE:						
	i) Explain the fundamental principles and methodology of drug proving ii) Enumerate the advantage and disadvantage of Hahnemannian proving iii)Illustrate the procedure for conducting HPT iv) Summarise the new drug development protocol as per CCRH v)Explain reproving of Homoeopathic drugs vi)Critique the Concept of Clinical and Toxicological proving (Animal proving)						
	SKILL:						
	This includes skills to understand the concept of individualization, study and analysing the Materia medica and ability to navigate and utilize homoeopathic repertories.						
	REFLECTION:						
	Attain the sphere of action of drugs and learn to complete MM pura						
Learning	Case – based, Out -patient based, Library based						
methods							
Assessment:	Continuous/ Programmatic assessment/ Written assessment/ Practical Assessment						
	LAQ / SAQ; DOPS, Checklist, Ratting Scales.						
Prescribed	Refer to list attached						
texts:							
Domains of	Knowledge and Skill/Homoeopathic Orientation/ Patient care						
Competencies							
:							

# **TOPIC NAME:HOM-PG-FHP-06:**

# HOMOEOPATHIC PHARMACEUTICS

Topic	This Topic will provide students of M.D. Hom (Homoeopathic Pharmacy) with an					
overview	overview on preparation of homoeopathic medicines					
	Hom-PG-FHP-06 - 01:					
Learning outcome	UNDERSTANDPREPARATION OF POTENTISED MEDICINES, MOTHER PREPARATION WITH ITS PRESERVATION, EODMAN ATION AND DISPENSING OFHER OR ATHIC MEDICINE					
	FORMULATION AND DISPENSING OFHOMOEOPATHIC MEDICINE,  KNOWLEDGE:  i) Elaborate the fundamental principles, methods of Potentisation with different scales  ii) Explain the steps for preparation of homoeopathic medicines as per Hahnemann and modern methods  iii)Discuss the principles and procedure of preservation of potentised medicines and mother preparation  iv) Outline the procedure for the formulation and dispensing of homoeopathic medicines  SKILL:  i) Perform the manufacturing procedures in the departmental pharmacy laboratory as listed in (Appendix 3)  ii) Estimate Alcohol content in mother tincture, tincture trituration  REFLECTION:  Develop the competencies to perform dynamization as per Homoeopathic					
T	principles in large scale					
Topic overview	This Topic will provide students of M.D. Hom (Homoeopathic Pharmacy) with an overview on Safety measures followed in Drug Industry					
	Hom-PG-FHP-06 - 02:					
Learning outcome	UNDERSTAND THE SAFETY RULES TO BE OBSERVED DURING PREPARATION OF MEDICINES IN MANUFACTURING UNIT					
	KNOWLEDGE:					
	i) List the pre-requisites of ideal pharmacy laboratory					
	ii) Discuss the safety rules followed in industrial set up					
	SKILL:					
	This includes the skills relating to manufacturing processes, handling of hazardous materials and usage of personal protective equipment, besides practical skills concerning with good manufacturing practices (GMP).					

	REFLECTION:				
	Adapt due care and diligence during preparation of medicines				
Learning	Lab – based, Self- regulated learning, Deliberate Practice				
Methods					
Assessment:	Continuous/ Programmatic assessment/ Written assessment/ Practical				
	Assessment				
	LAQ / SAQ ; Checklist, Rubric				
Prescribed	Refer to list attached				
texts:					
Domains of	Knowledge and Skill/Homoeopathic Orientation/Practice based learning				
<b>Competencies:</b>					

## Appendix 1: List of Polychrest drugs

- 1. Aconite napellus
- 2. Belladonna
- 3. Cinchona officinalis
- 4. Gelsemium sempervirens
- 5. Thuja occidentalis

## **Appendix 2:**

### List of drugs for Toxicological action

- 1. Conium maculatum
- 2. Datura metel
- 3. Nux vomica
- 4. Rauwolfia serpentina
- 5. Lachesis

# **Appendix 3:**

#### **Practicals**

# M.D. (HOMOEOPATHY) HOMOEOPATHIC PHARMACY

# Part-I: PRACTICALS

- 1. Demonstration of Homoeopathic Pharmaceuticals Instruments and appliances and their uses, cleaning (Appendix A)
- 2. Estimation of size of Globules.
- 3. Medication of Globules.
- 4. Laboratory Methods: Sublimation, Crystallisation, Decantation, Filtration, Distillation
- 5. Preparation of dilute and dispensing alcohol from strong alcohol
- 6. Preparation of External application: Glycerol, Lotion, Liniment, Ointment
- 7. Purity test of Sugar of Milk, Water, and Alcohol
- 8. Succussion in Decimal scale from Mother Tincture to 3X potency (new method)

- 9. Succussion in Centesimal scale from Mother Tincture to 3C potency (new method)
- 10. Succussion in Decimal scale from Mother Tincture (prepared in old method) to 3X potency.
- 11. Succussion in Centesimal scale from Mother Tincture (prepared in old method) to 3C potency.
- 12. Preparation of one medicine each as per Trituration under class VII, VIII& IX.
- 13. Trituration of one drug as per HPI.
- 14. Preparation of Mother Tinctures according to old Hahnemannian method (class I to IV).
- 15. Preparation of Mother Solutions according to old Hahnemannian method (class Va, Vb, VIa, VIb)
- 16. Conversion of one trituration to liquid potency: 6X to 8X potency
- 17. Conversion of one trituration to liquid potency: 3C to 4C potency
- 18. Determination of specific gravity of different strengths of alcohol
- 19. Preparation of 0/1 of one drug from 3C trituration (LM scale)
- 20. Study of identification of drug substances
  - a) Macroscopic characteristics (any 15) -- (Appendix B)
  - b) Microscopic characteristics (any 5) -- (Appendix C)

# Appendix A

# HOMOEOPATHIC PHARMACEUTICAL INSTRUMENTS

Mortar and Pestle-	Macerating Jar	Measuring cylinder	Simple Distillation	Moisture Balance
Porcelain,			apparatus	
Glass, Iron				
Spatula	Percolator	Volumetric flask	Chopping	Refractometer
			Board,	
			Chopping Knife	
Ointment slab	Tincture Press	Pipettevolumetric	Colorimeter	Dropper
and Ointment		and graduated		
spatula				
Chemical	Wire Gauze	Burette	Stirrer/ Glass	Desiccator
Balance			rod	
Electronic	Hot air oven	Stop watch	Glass Funnels	Glass apparatus for
balance				filtration with
				vacuum
Evaporating	Sieves-10,22,	Water still	Thin layer	Electric triturator
dishes-	44,60, 85, 120		chromatography	
Porcelain, glass			apparatus	
Crucibles with	Lactometer	Spectrophotometer	Watch glass	Spirit lamp
tongs				
Water bath-	Pyknometer	Electric potentiser	Petri dish	Polarimeter
metal/ electric				
Microscopes	pH meter	Hydrometer	Alcoholometer	Silica crucibles

# Appendix B

## LIST OF DRUGS FOR IDENTIFICATION FOR MACROSCOPIC STUDY

Allium cepa	Cannabis indica	Ficus religiosa	Tropaeolum majus
Andrographis	Cinchona	Holarrhenaantidysenterica	Terminalia arjuna
paniculata	officinalis		
Aegle folia	Catharanthus	Helianthus annus	Tinosporacordifolia
	roseus		
Azadirachtaindica	Cassia sophera	Hydrocotyleasiatica	Tabacum
Apismellifica	Coffeacruda	Opium	
Alstoniascholaris	Cascabelathevetia	Oleander	
Blattaorientalis	Eucalyptus	Syzygium	
	globulus	Jambolanum	

### LIST OF DRUGS FOR IDENTIFICATION FOR MICROSCOPIC STUDY

Cina	Calendula officinalis	Datura	Justicia adhatoda	Cactus grandiflorus
Chamomilla	Digitalis purpurea	Nux vomica	Ipecac	Rauwolfia serpentina

# M.D. (Hom) Homoeopathic Pharmacy Part-I Activities:

- MoU (Memorandum of Understanding) with College of Pharmacy (ONE INSTITUTE) under any recognized university.
- Journal club meetings in Part-1 for the class.
- 15 days in Homoeopathic Hospital Pharmacy duties (in own collegiate teaching homoeopathic hospital).: **Record on posting in Hospital Pharmacy for dispensing to be maintained** in terms of total numbers of patients; date wise, Registration number of Patients, Dosage form Liquid/solid, name of the vehicle used, medication process.

### VII. ASSESSMENT

	Formative Assessment	Summative Assessment
	(Internal Assessment)	(University Examination)
M.D.(Hom.)	1st Term Test: During sixth month of	
Part-I	training	During eighteenth month
	2 <sup>nd</sup> Term Test: During twelfth month	oftraining
	of training	

### VII (1). M.D. (Homoeopathy) Part-I Examination –

# MAXIMUM MARKS FOR EACH SUBJECT AND MINIMUM MARKS REQUIRED TO PASS SHALL BE AS FOLLOWS:

Subjects	Theory		Practical or Clinical Examination, including Viva	
Subjects	Maximum Marks	Pass Marks	Maximum Marks	Pass Marks
i. Fundamentals of Homoeopathic Pharmacy	100	50	200* (160 + 40) (Summative Assessment 160 Marks) (Internal Assessment 40 Marks)	100* (80 + 20) (Summative Assessment 80 Marks) (Internal Assessment 20 Marks)
ii.Fundamentals of Clinical Medicine in Homoeopathic Pharmacy	100	50		
iii.Research Methodology and Biostatistics	100	50	-	-

(\*A common practical exam for paper I and II (100 marks practical + 100 marks viva) shall be conducted; twenty per cent. weightage shall be for internal assessment, which shall be calculated for practical or clinicalincluding viva voce only. One internal assessment of 40 marks [20 marks (practical or clinical) + 20 marks(viva voce)] after each term of six months and average of two terms shall be considered. \*Eighty per cent.weightage shall be for summative assessment).

VII (2). ASSESSMENT BLUEPRINT – THEORY (Benchmarked by the module-wise distribution.)

# VII (2A). DISTRIBUTION OF TOPICS FOR THEORY-BASED ASSESSMENT. TYPES OF QUESTIONS WITH MARKS

Types of question	No. of questions to be asked	Marks per question	Total
Problem Based Question	01	20	20
Long Answer Question	04	10	40
Short Answer Question	08	05	40
Total			100

Part 1 – Paper 1. Topic Numbers

**Hom-PG-FHP-01** Philosophy and Development of Homoeopathic Pharmacy

Hom-PG-FHP-02 Homoeopathic Pharmacopoeia

Hom-PG-FHP-03 Pharmaconomy

**Hom-PG-FHP-04** Knowledge of Drug Substance (Pharmacognosy and Pharmacology)

**Hom-PG-FHP-05** Drug Proving

Hom-PG-FHP-06 Homoeopathic Pharmaceutics

# VII (2b). QUESTION PAPER LAYOUT

Q.	Type of	Content	Marks
No.	Question	Content	
1	Problem	Hom-PG-FHP-02/ Hom-PG-FHP-05/ Hom-PG-FHP-06	20
1	Based		20
2	LAQ	Hom-PG-FHP-01/ Hom-PG-FHP-02	10
3	LAQ	Hom-PG-FHP-04	10
		II. DO TUD AS	1.0
4	LAQ	Hom-PG-FHP-05	10
5	LAQ	Hom-PG-FHP-06	10
6	SAQ	Hom-PG-FHP-01	5
7	SAQ	Hom-PG-FHP-02	5
8	SAQ	Hom-PG-FHP-04	5
9	SAQ	Hom-PG-FHP-03	5
10	SAQ	Hom-PG-FHP-05	5
11	SAQ	Hom-PG-FHP-06	5
12	SAQ	Hom-PG-FHP-05	5
13	SAQ	Hom-PG-FHP-06	5
	-	Total	100

## VII (3). ASSESSMENT BLUEPRINT -PRACTICAL / VIVA:

## VII (3a). PRACTICAL EXAMINATION.

	PRACTICAL		
1	Internal Assessment	20 Marks	
2	Spotting	20 Marks	
3	Experiment	50 Marks	
4	Logbook	05 Marks	
5	Micro Teaching	05 Marks	
	Total 100 Marks		

# VII (3b). VIVA VOCE.

	VIVA		
1	Internal Assessment	20 Marks	
1	Discussion of Synopsis	20 Marks	
2	2 Viva 60 Marks		
	Total 100 Marks		

### VIII. LIST OF REFERENCE BOOKS (As per APA Format).

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## Part II: Paper -1& Paper - 2

#### V. TOPICS AND TOPIC OBJECTIVES.

### Part II: HOMOEOPATHIC PHARMACY-PAPER 1: (HOM-PG-HP-PART II- PAPER-1)

Hom-PG-HP-07: Prescription Writing and Dispensing

Hom-PG-HP-08: Laboratory Methods

Hom-PG-HP-09: Drug Laws and Legislation Related to Homoeopathic Pharmacy

Hom-PG-HP-10:Standardisation

#### VI. TOPIC DESCRIPTION

#### Hom-PG-HP-07:

### PRESCRIPTION WRITING AND DISPENSING

- o Writing a legal prescription and avoiding errors during prescription writing.
- o Methods and Precautions required for Dispensing of Homoeopathic medicines

#### Hom-PG-HP-08:

### LABORATORY METHODS

o Standard laboratory techniques for standardising homoeopathic medicines.

#### Hom-PG-HP-09:

### DRUG LAWS AND LEGISLATION RELATED TO HOMOEOPATHIC PHARMACY

o Legislation/ laws related to homoeopathic pharmacy.

#### Hom-PG-HP-10:

### **STANDARDISATION**

- o The goal of manufacturing good quality homoeopathic product
- The quality control tests to ascertain pure substances.

# TOPIC NAME: HOM-PG-HP-07: PRESCRIPTION WRITING AND DISPENSING

Topic	This Topic will provide students of M.D. Hom (Homoeopathic Pharmacy) with an		
Overview	overview on ideal Prescription Writing and its medicolegal importance		
	Hom-PG-HP-07-01:		
	WRITING A LEGAL PRESCRIPTION AND AVOIDING ERRORS		
	DURING PRESCRIPTION WRITING		
Learning	KNOWLEDGE:		
outcome:	i) State the parts of Prescription writing		
	ii)Expand the abbreviations used in prescription writing		
	iii) Explain the legal aspect of prescription writing in clinical setup		
	CVVII I		
	SKILL:  Dreatice the format of ideal preservation to exacid among dyning clinical		
	Practice the format of ideal prescription to avoid errors during clinical practice		
	practice		
	REFLECTION:		
	Identify the possible mistakes made in prescription writing with regard to		
Tr •	its medicolegal significance in clinical practice, and devise their solutions.		
Topic Overview	This Topic will provide students of M.D. Hom (Homoeopathic Pharmacy) with an		
Overview	overview on Dispensing of Homoeopathic medicines  Hom-PG-HP-07 – 02:		
	IDENTIFY METHODS AND PRECAUTIONS REQUIRED FOR		
	DISPENSING OF HOMOEOPATHIC MEDICINES		
Learning outc	KNOWLEDGE:		
me:	i) Illustrate the methods of Dispensing		
	ii) Explain the precautions to be taken during dispensing of		
	homoeopathic medicines		
	SKILL:		
	Perform all the procedures for proper dispensing of homoeopathic		
	medicines.		
	DEEL ECTION.		
	REFLECTION:  Reflect on the main features of dispensing homoeopathic medicines in		
	clinical practice		
Learning	Case – based, Out – patient based, Ward rounds, Deliberate Practice.		
Methods	, , , , , , , , , , , , , , , , , , , ,		
Assessment:	Continuous/ Programmatic assessment/ Written assessment/ Practical		
	Assessment		
	LAQ / SAQ ; Checklist , Ratting Scales, Rubric.		
Prescribed	Refer to list attached		
texts:			
Domains of	Knowledge and Skill/Homoeopathic Orientation/ Practice based learning/		
Competencies:	Professionalism/ Patient care		

# **TOPIC NAME: HOM-PG-HP-08:**

# LABORATORY METHODS

Topic	This Topic will provide students of M.D. Hom (Homoeopathic Pharmacy) with
overview	an overview on Lab methods specifically for understanding purity of homoeopathic medicines
	Hom-PG-HP-08 – 01:
	UNDERSTANDING STANDARD LABORATORY TECHNIQUES FOR
Learning	STANDARDISING HOMOEOPATHIC MEDICINES
outcome:	KNOWLEDGE:
	<ul> <li>i) Describe the various heat process: Sublimation, Evaporation- factors affecting evaporation, types of equipment for evaporation method</li> <li>ii) Explain the drying procedures: Drying- definition, purpose of drying, theory of drying, moisture content and Desiccation</li> </ul>
	SKILL:
	Perform laboratory methods in pharmacy laboratory. Estimate moisture
	content of one drug (Gravimetric method) in Pharmacy laboratory as
	listed in Appendix 7
	REFLECTION:
	Recall the critical factors to ensure the purity and genuineness of drug
	substances
Topic overview	This Topic will provide students of M.D. Hom (Homoeopathic Pharmacy) with
overview	an overview on Lab methods specifically for understanding purity of homoeopathic medicines
	Hom-PG-HP-08 – 02:
	UNDERSTANDING STANDARD LABORATORY TECHNIQUES FOR
Learning	STANDARDISING HOMOEOPATHIC MEDICINES
outcome:	KNOWLEDGE:
	i) Illustrate the mixing, its mechanism/process, purpose and factors
	affecting it.
	ii) Define the terms 'filtration', 'Filter Media'.
	iii)Discuss the factors affecting rate of filtration.
	SKILL:
	Perform laboratory methods in Pharmacy laboratory
	REFLECTION:
	Appraise the steps to ensure the purity and genuineness of drug substances

Topic	This Topic will provide students of M.D. Hom (Homoeopathic Pharmacy) with		
overview	an overview on Lab methods specifically for understanding purity of		
	homoeopathic medicines		
Learning	Hom-PG-HP-08 – 03:  UNDERSTANDING STANDARD LABORATORY TECHNIQUES FOR STANDARDISING HOMOEOPATHIC MEDICINES		
outcome:	MANONA ED CE		
	KNOWLEDGE:		
	i) Define the terms 'distillation', and 'sterilisation'		
	ii) Illustrate the procedure of distillation and sterilisation		
	iii) Discuss different types of distillation simple, fractional, steam		
	iv) Explain the tests for sterility		
	SKILL:		
	Perform laboratory methods in Pharmacy Laboratory		
	refrorm laboratory methods in Fharmacy Laboratory		
	REFLECTION:		
	Reflect on the steps to ensure the purity of distilled water to prepare a pure		
	medicine and understand sterilisation for use of safe medicines by killing		
	microbes during manufacturing.		
Learning	Lab – based, Deliberate practice.		
Methods			
Assessment:	Continuous/ Programmatic assessment/ Written assessment/ Practical		
	Assessment		
	SAQ; Checklist, Ratting Scales, Rubric.		
Prescribed	Refer to list attached		
texts:			
Domains of	Knowledge and Skill/Homoeopathic Orientation/ Practice based learning		
Competencies			
:			
Domains of	Knowledge and Skill/Homoeopathic Orientation/ Practice based learning		

## **TOPIC NAME:HOM-PG-HP-09:**

## DRUG LAWS AND LEGISLATION RELATED TO HOMOEOPATHIC PHARMACY

Topic overview	This Topic will provide students of M.D. Hom(Homoeopathic Pharmacy)			
	with an overview on different legal aspects of Homoeopathic Pharmacy as per The Drugs & Cosmetics Act, 1940			
	as per The Drugs & Cosmetics Act, 1940  Hom-PG-HP-09 – 01:			
	HOM-PG-HP-U9 - VI:			
	UNDERSTAND LEGISLATION/ LAWS RELATED TO			
	HOMOEOPATHIC PHARMACYAS LISTED IN APPENDIX 4			
	KNOWLEDGE:			
	i) Recognise the various by-laws as prescribed by Govt. of			
	India for the practice of homoeopathic pharmacy.			
Learning	ii) Appraise the updates and amendments of Laws and Acts of homoeopathic pharmacy on a regular basis.			
<b>Outcomes:</b>				
	SKILL:			
	Implement drug laws and legislation into clinical practices and			
	drug manufacturing			
	REFLECTION:			
	Ascertain the recency of legal and regulatory procedures to ensure			
	ethical clinical practice and good manufacturing practices.			
<b>Learning Methods</b>	Problem – based, Case – based, Brainstorming			
Assessment:	Continuous/ Programmatic assessment/ Written assessment/ Practical			
	Assessment			
	LAQ / SAQ / SEQ			
Prescribed texts:	Refer to list attached			
Domains of	Knowledge and Skill/Homoeopathic Orientation/ Professionalism/			
<b>Competencies:</b>	Patient care/ Practice based learning			

## **TOPIC NAME: HOM-PG-HP-10:**

## **STANDARDISATION**

Topic overview	This Topic will provide students of M.D. Hom (Homoeopathic Pharmacy) with an overview on Standardisation of drugs, vehicles, finished products necessary for establishing the purity of a substance.				
	Hom-PG-HP-10 – 01:				
Learning	UNDERSTANDING THE GOAL OF MANUFACTURING GOOD QUALITY HOMOEOPATHIC PRODUCT				
Outcome	KNOWI EDGE.				
	KNOWLEDGE:  i)Define standardisation, evaluate its objective				
	ii)Classify the different quality control evaluations, and tests for drug,				
	vehicles and finished products				
	SKILL:				
	Practical demonstration and conduction of the tests in the Homoeopathic Pharmaceutical industry set up.				
	REFLECTION:				
	Ascertain the genuineness and purity of drug substances and finished product				
	i.e. homoeopathic medicines &the use of genuine drug for identification,				
T	preparation and to avoid use of substitutes  This Topic will provide students of M.D.Hom (Homoeopathic Pharmacy) with an				
Topicoverv iew	overview on Pharmaceutical testing methods as listed in Appendix 7				
ICW	Hom-PG-HP-10 – 02:				
	UNDERSTAND THE QUALITY CONTROL TESTS TO ASCERTAIN PURE SUBSTANCES				
Learning Outcome	i) Discuss the concept and mechanism of Analytical tests relating to Phytoconstituents- Carbohydrates, Proteins, Lipids, Alkaloids, Glycosides, Saponins, Tannins, Flavanoids ii)Describe procedures of Thin layer chromatography-TLC, Gas liquid chromatography- GLC, High performance liquid chromatography- HPLC, Lamberts Law (Beers Law), Spectrophotometer analysis of Homoeopathic drugs, Polarography, Fluorometry, Official sampling/ Quartering Technique				
	SKILL: Practical demonstration and conduction of the tests in the Homoeopathic Industrial pharmaceutical set upas listed in Practical part in Appendix 7				

	Reflection: Ascertain the genuineness and purity of drug substances and finished product i.e homoeopathic medicines		
Learning	Problem – based, Library – based, Lab – based		
Methods			
Assessment	t Continuous/ Programmatic assessment/ Written assessment/ Practical Assessment		
	LAQ; Checklist, Ratting Scales, Rubric.		
Prescribed	Refer to list attached		
texts:			
Domains of	of Knowledge and Skill/Homoeopathic Orientation/ Practice based learning		
Competenc			
ies:			

### PART II: HOMOEOPATHIC PHARMACY:HOM-PG-HP-PART II- PAPER-2:

Hom-PG-HP-11: Pharmacognosy

Hom-PG-HP-12: Pharmacopoeia Commission for Indian Medicine & Homoeopathy

Hom-PG-HP-13: Experimental Pharmacology

Hom-PG-HP-14: Pharmacovigilance

Hom-PG-HP-15: Homoeopathic Pharmaceutical Industrial Management

Hom-PG-HP-16: Hospital Pharmacy

Hom-PG-HP-17: Advancements/ Research in Homoeopathic Pharmacy

### VII. Topic description:

#### Hom-PG-HP-11: PHARMACOGNOSY

 Pharmacognostic study of organised and unorganised drugs and animals for establishing their genuineness

# Hom-PG-HP-12: PHARMACOPOEIA COMMISSION FOR INDIAN MEDICINE & HOMOEOPATHY

Understand the functioning of Central Drug testing unit cum Appellate
 Laboratory along with their activities and standards of Homoeopathic drugs being made by them.

### Hom-PG-HP-13: EXPERIMENTAL PHARMACOLOGY

- o The Ethical requirements for drug studies on animals.
- o The Pharmacological action of homoeopathic drugs.

### Hom-PG-HP-14: PHARMACOVIGILANCE

o The concept of ADR and Pharmacovigilance.

# Hom-PG-HP-15: HOMOEOPATHIC PHARMACEUTICAL INDUSTRIAL MANAGEMENT

o The Principles of management of pharmaceutical industry.

### Hom-PG-HP-16: HOSPITAL PHARMACY

o The working of Hospital Pharmacy for good clinical practice.

# Hom-PG-HP-17: ADVANCEMENTS/ RESEARCHES IN HOMOEOPATHIC PHARMACY

 Scope of research in Homoeopathic pharmacy with effectiveness of Homoeopathic medicines in different life forms.

# **TOPIC NAME:HOM-PG-HP-11:**

## PHARMACOGNOSY

Topic	This Topic will provide students of M.D. Hom (Homoeopathic Pharmacy) with			
Overview	an overview on Pharmacognostic evaluation of raw materials for attaining good			
	quality finished products.			
L	Hom-PG-HP-11 - 01:  DISCUSS PHARMACOGNOSTIC STUDY OF ORGANISED AND UNDER ANGEL AND ANIMALS FOR ESTABLISHING THEIR			
Learning	UNORGANISED DRUGS AND ANIMALS FOR ESTABLISHING THEIR			
outcome:	GENUINENESSAS LISTED IN APPENDIX 5			
	KNOWLEDGE:  i) Explain Pharmacognostic study of organised and unorganised drugs as listed in Appendix 5  ii) Explain systematic evaluation of animal and animal products			
	SKILL: Perform tests for identification, and evaluation of drugs (microscopic study of drugs- Stomatal index, Stomatal number, Palisade ratio) as listed in Appendix 7			
	REFLECTION:  Ascertain collection of genuine and authentic drug substances and detect adulterants to ensure quality drug manufacturing and avoid use of substandard drugs or substitutes.			
Learning	Library -based, Reflective Learning.			
Methods	,, <u>-</u> <u>-</u>			
Assessment:	Continuous/ Programmatic assessment/ Written assessment/ Practical Assessment LAQ; Checklist, Ratting Scales			
Prescribed texts:	Refer to list attached			
Domains of	Vnoviledge and Chill/Dreatice based learning/Herrescarethic Orientation			
Competencies:	Knowledge and Skill/ Practice based learning/ Homoeopathic Orientation			

## **TOPIC NAME: HOM-PG-HP-12:**

## PHARMACOPOEIA COMMISSION FOR INDIAN MEDICINE & HOMOEOPATHY

Topic overview	This Topic will provide students of M.D. Hom (Homoeopathic Pharmacy) with an overview on Pharmacopoeia Commission for Indian Medicine and Homoeopathy (PCIM & H)		
Learning outcome:	Hom-PG-HP -12 - 01:  UNDERSTAND THE FUNCTIONING OF CENTRAL DRUG TESTING UNIT CUM APPELLATE LABORATORY ALONG WITH THEIR ACTIVITIES AND STANDARDS OF HOMOEOPATHIC DRUGS BEING MADE BY THEM  KNOWLEDGE:  i) Describe the development of PCIM &H		
	ii) Explain the functions and various activities undertaken by PCIM & H		
	SKILL:  This includes the standard and guidelines set up homoeopathic pharmacopoeias followed by the Central Drug testing unit cum Appellate Laboratory. Also includes skills relating to techniques such as chemical analysis, microscopy, chromatography and spectroscopy to comprehend the laboratory activities related to testing the quality, purity and potency of homoeopathic medicines.		
	REFLECTION: • Reflect on the bylaws and regulations prescribed by PCIM & H for		
	manufacturing units		
Learning	Library – based, E – learning		
Methods			
Assessment:	Continuous/ Programmatic assessment/ Written assessment/ Practical		
	Assessment		
Prescribed	LAQ /SAQ Refer to list attached		
	Keter to list attached		
texts:			
Domains of Competencies :	Knowledge and Skill/Homoeopathic Orientation		

# **TOPIC NAME: HOM-PG-HP-13:**

## EXPERIMENTAL PHARMACOLOGY

Topic	This Topic will provide students of M.D. Hom (Homoeopathic Pharmacy) with					
overview	an overview on standard guidelines to be followed during animal studies.					
	Hom-PG-HP -13 – 01:					
Lagurina	UNDERSTAND THE ETHICAL REQUIREMENTS FOR DRUG STUDIES ON ANIMALS					
Learning outcome:	KNOWLEDGE:  i) Illustrate the ethical principles and essential requirements during animal proving					
	SKILL:  This includes the practical skills relating to animal ethics, animal welfare including 3 R's (Replacement, Reduction, Refinement), ethical considerations involved in conducting research on animals.					
	REFLECTION:  Identify possible gaps to ensure the ethical application of homoeopathic medicines on lower animals and suggest suitable remediation.					
Topic	This Topic will provide students of M.D. Hom (Homoeopathic Pharmacy) with					
overview	an overview on Experimental Pharmacology					
	Hom-PG-HP -13 – 02:					
	UNDERSTAND THE PHARMACOLOGICAL ACTION OF HOMOEOPATHIC DRUGS					
Learning KNOWLEDGE:						
outcome:	i) Define Experimental Pharmacology					
outcome.	ii)Discuss the pharmacological action of drugs ii)Mention the factors modifying pharmacological action of drugs.					
	SKILL:					
	This includes clinical observation, individualised case analysis, research studies, clinical trials.					
	REFLECTION:					
	Appraise the sphere and mechanism of action of drugs					
Learning	Lab – based, E – learning.					
Methods						
Assessment:	Continuous/ Programmatic assessment/ Written assessment/ Practical					
	Assessment					
	LAQ / SAQ ; Checklist, Ratting Scales, Rubric					
Prescribed	Refer to list attached					
texts:						
Domains of	Knowledge and Skill/Homoeopathic Orientation					
Competencies						
:						

## **TOPIC NAME: HOM-PG-HP-14:**

# PHARMACOVIGILANCE

overview		gilance system to ma	nage the	different ad	l
	events for welfare of patient		an overview on Pharmacovigilance system to manage the different adverse drug		
		events for welfare of patients			
	Hom-PG-HP -14 - 01:				
	UNDERSTAND THI		OF	ADR	AND
Learning	PHARMACOVIGILANCE				
outcome:					
	<b>KNOWLEDGE:</b>				
	i) Define Adverse D	rug reaction			
	ii) Explain the mana	gement of adverse dru	g reaction	ns in homoe	opathy
	iii)Describe the concept of Pharmacovigilance system in India				
	SKILL:				
	Observe, analyse and manage ADR in clinical practice				
	REFLECTION:				
	_	ssary precautions to be	e taken fo	r avoiding	
	ADR in clinical practice				
Learning	Problem – based, Case – based, Deliberate Practice				
Methods					
Assessment	Continuous/ Programmatic assessment/ Written assessment/ Practical				
	Assessment				
	LAQ; DOPS, Checklist, Ratting Scales				
Prescribed	Refer to list attached				
texts					
Domains of	Knowledge and Skill/Homoeopathic Orientation/ Patient care/ Practice based				
ompetencies	learning				

## **TOPIC NAME: HOM-PG-HP-15:**

## HOMOEOPATHIC PHARMACEUTICAL INDUSTRIAL MANAGEMENT

Topic	This Topic will provide students of M.D. Hom (Homoeopathic Pharmacy)with an		
overview	overview on management of Homoeopathic Pharmaceutical units for proper		
	production and marketing.		
Learning outcome:	Hom-PG-HP -15 – 01:  UNDERSTAND THE PRINCIPLES OF MANAGEMENT OF PHARMACEUTICAL INDUSTRY AS LISTED IN APPENDIX 6		
	KNOWLEDGE:		
	i) Explain the correlation of Administration Principles of Industrial Management in relation to Homoeopathic Pharmaceutical industry ii) Enumerate different forms of business organization iii) Describe the concepts of Management iv) Explain Production Management v) Explain Marketing Management, Distribution vi) Explain Marketing Organization: Manufacturer-to Wholesaler –to retailer vii) Explain Marketing Communication viii) Explain Media for communication- Advertising, Sale, Sales Promotion methods ix) Discuss the role of Medical Representatives x) Explain Drug Store management  SKILL:		
	Apply the principles of management in pharmaceutical industrial set up.  REFLECTION:		
	Plan for the production and delivery of genuine homoeopathic drugs from industry to the market		
Learning Methods	Problem – based, Brainstorming, Self – regulated Learning, Deliberate Practice		
Assessment:	Continuous/ Programmatic assessment/ Written assessment/ Practical Assessment LAQ / SAQ ;DOPS, Checklist, Ratting Scales, Rubric.		
Prescribed	Refer to list attached		
texts:	Teers to her sometime		
Domains of	Knowledge and Skill/Homoeopathic Orientation/ Practice based Learning/		
Competencies	Communication skills		
:			

# **TOPIC NAME:HOM-PG-HP-16:**

## HOSPITAL PHARMACY

Topic	This Topic will provide students of M.D. Hom (Homoeopathic Pharmacy) with an			
overview	overview on Hospital Pharmacy for Procurement and management of medication			
	as per the Homoeopathic perspective			
	Hom-PG-HP -16 – 01:			
	UNDERSTAND THE WORKING OF HOSPITAL PHARMACY FOR			
Learning	GOOD CLINICAL PRACTICE			
outcome:				
	KNOWLEDGE:			
	i) Outline the structure and functions of a Hospital Pharmacy			
	ii)Determine the procedures for procurement of medicines, stock			
	maintenance, indent system, and distribution of medicines.			
	SKILL:			
	Practice the principles of management of Hospital pharmacy			
	REFLECTION:			
	List the steps to establish and effectively run the Hospital pharmacy for			
	Good Clinical practice by understanding medication (MOM) aspect of			
	NABH in Hospital Pharmacy.			
Learning	Reflective Learning, Deliberate practice.			
Methods				
Assessment:	Continuous/ Programmatic assessment/ Written assessment/ Practical			
	Assessment			
Prescribed	Refer to list attached			
texts:				
Domains of	Knowledge and Skill/Homoeopathic Orientation/ Patient care/ Practice based			
Competencies	learning			
:				
•				

## **TOPIC NAME: HOM-PG-HP-17:**

## ADVANCEMENTS/ RESEARCH IN HOMOEOPATHIC PHARMACY

Topic	This Topic will provide students of M.D. Hom (Homoeopathic Pharmacy) with an			
overview	overview on Recent advances and research in relation to Homoeopathic Pharmacy			
Learning outcome:	Hom-PG-HP-17 – 01:  IDENTIFY SCOPE OF RESEARCH IN HOMOEOPATHIC PHARMACY WITH EFFECTIVENESS OF HOMOEOPATHIC MEDICINES IN DIFFERENT LIFE FORMS			
	KNOWLEDGE:  i) Discuss the recent advancements in India and the world in the field of invention and production of new homoeopathic drugs.  ii) Explore the modern equipment related to drug production/manufacturing, packaging, sealing and labelling  iii) Recognise the scope of homoeopathic medicines in Veterinary and Agriculture  iv)Discuss published Homoeopathic research studies on animals and plants  SKILL:  Observe and practice the experimentation relating to above advancements at departmental pharmacy laboratory/agricultural/herbal garden in a School of Agriculture and School of Pharmacy and Homoeopathic Industrial Pharmaceutical set up/ Veterinary hospital  REFLECTION:  Develop new homoeopathic drugs to increase the efficacy of homoeopathy on plants and animals along with latest equipment available for manufacturing medicines.			
Learning	Library – Based, E – learning.			
Methods				
Assessment:	Continuous/ Programmatic assessment/ Written assessment/ Practical Assessment LAQ / SAQ ;SEQ			
Prescribed	Refer to list attached			
texts:				
Domains of	Knowledge and Skill/Homoeopathic Orientation/ Practice based learning			
Competencies				

# DRUG LAWS AND LEGISLATION RELATED TO HOMOEOPATHIC PHARMACY

- 1. Drugs and Cosmetics Act, 1940(23 of 1940)
- 2. Legislation related to Homoeopathic pharmacy (Part VI-A, VII-A, IX-A) –as per Drugs and Cosmetics Rules, 1945
- 3. Good Manufacturing Practices Schedule M-I
- 4. Schedule FF- regulation for ophthalmic preparations
- 5. The Pharmacy Act, 1948 (6 of 1948)
- 6. The NCH Act, 2020
- 7. Medicinal and Toilet Preparation (Excise Duty) Act, 1955 (16 of 1955)
- 8. Drugs and Magic Remedies (Objectional Advertisements) Act, 1954 (21 of 1954)-Spurious drugs, Misbranded Cosmetics
- 9. The Prevention of illicit traffic in The Narcotic Drugs and Psychotropic Substances Act, 1988 (46 of 1988)
- 10. Dangerous Drug Act, 1930
- 11. The Poison Act, 1919 (12 of 1919)
- 12. The Drugs (Control) Act, 1950 (25 of 1950)
- 13. Patent or Proprietary Medicine and procedure to obtain license
- 14. Inside and Outside bond laboratory- Merits and Demerits
- 15. Pharmaceutical ethics- related to homoeopathy. General Introduction to code

# PHARMACOGNOSTIC STUDY OF ORGANISED AND UNORGANISED DRUGS, ANIMAL AND ANIMAL PRODUCTS:

Organised drugs: Bark: Cinchona, Cascara, Cinnamon

1) Leaves: Senna, Digitalis, Vasaka

2) Flowers: Saffron

3) Fruits: Capsicum, Coriander

4) Seed: Nux vomica, Nut meg, Strophanthus

5) Root and Rhizome: Ipecac, Colchicum, Ginger

6) Entire organism: Belladonna, Stramonium, Hyoscyamus

### Unorganized Drugs: Aloes, Opium

1) Indigenous Drugs: Amla, Brahmi, Giloy, Kalmegh

2) Systematic study of products of animal origin: Cantharides, Bees-wax, Cochineal, Codliver oil

### HOMOEOPATHIC PHARMACEUTICAL INDUSTRIAL MANAGEMENT

- 1) Administration- Principles of Industrial Management in relation to Homoeopathic Pharmaceutical industry
- 2) Introduction to forms of business organization
- Introduction to concepts of Management: Managerial work, functions of management, managerial planning, long term and short-term plans, Decision making process, Management control systems
- 4) Production Management: Goals & Organization, Plant Location, Factory Building Layout, Policies, Purchasing of raw material, inventory control
- 5) Marketing Management: Distribution, Physician Consumer profile
- 6) Marketing Organization: Manufacturer-to Wholesaler -to retailer
- 7) Marketing Communication
- 8) Media for communication- Advertising, Sale, Role of medical representatives, Sales Promotion methods
- 9) Drug store Management: factors influencing starting and running of a drug store, different types and forms of drug stores, Location of drug store, store building, construction, furniture, internal planning, layout, financial requirements, purchase and sales record, sales promotion and advertisement, qualification of person running store, authority & issuing licenses, accounting and correspondence, ledgers, cash book, balance sheet, Profit and Loss account

## M.D. (HOMOEOPATHY) HOMOEOPATHIC PHARMACY: PART II

### **PRACTICALS**

### **Homoeopathic Pharmacy Practical- Part II**

Sl.no	Experiments	
1	Estimation of Moisture content of one drug (Gravimetric method)	
2	Preparation of one mother tincture by Maceration (as per HPI)	
3	Preparation of one mother tincture by Percolation (as per HPI)	
4	TLC (Thin layer Chromatography) of two mother tinctures	
5	Technique of section cutting, staining and mounting of sections (Preparation of 2	
	temporary slides)	
6	Microscopic study of any 3 drugs (Determination of Stomatal index, Stomatal number,	
	Palisade ratio)	
7	Qualitative analysis of any 3 homoeopathic drugs	
8	Phytochemical analysis of 3 mother tinctures- Demonstration	
9	Determination of alcohol content of one mother tincture	
10.	Demonstration in homoeopathic manufacturing unit	
	a) Hardness of tablets, friability of tablets, disintegration rate of tablets	
	b) Refractive Index & Optical Rotation of one substance.	

### ACTIVITIES- HOMOEOPATHIC PHARMACY FOR PART -II

- Internship Training program in any one GMP certified, and Government approved Homoeopathic Pharmaceutical industry for duration of 1(one) month at the industry. Maintain a record file. (Appendix D)
- **Duration of training:** 1 month
- **Period of Posting:** After passing Part 1 examination
- Certificate: to be provided by the head of the concerned manufacturing unit after completion of Internship

### FIELD VISITS:

a) Educational visits to School of Pharmacy, Veterinary Hospital and School of Agricultural Sciences. Maintain a record file of each visit. (**Appendix E**)

### Maintenance of record files – Appendix D

# I. Format for maintaining record on Industrial training program in Homoeopathic manufacturing unit (GMP Compliant)

- o Cover page
- o Certificate
- o Acknowledgement
- o Dates and Duration of training
- o Names and number of trainee PG students
- o Name and Designation of Teaching faculty
- o Detail of the Trainer/s at the Factory
- o Name & location of the Homoeopathic Manufacturing Factory
- o History about the Manufacturing unit
- Different sections of the manufacturing unit with its working process
  - Globule preparation section
  - Trituration section
  - Washing area
  - Tablet section(Demonstration of Hardness of tablets, friability of tablets, disintegration rate of tablets)
  - Mother tincture section
  - Dilution section
  - Cosmetics section
  - Storage, packaging and labeling
  - Quality control lab
- o Activities of R&D Department
- o How the training helped in correlation with topics studied in Theory
- o Conclusion
- Group photo

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

### Maintenance of record files - Appendix E

# II. Format for maintaining a record on each educational visit to School of Pharmacy, Veterinary Hospital and School of Agricultural Sciences.

- Cover page
- Certificate
- Acknowledgement
- Date of visit
- Number of visiting PG students
- Name and Designation of Teaching faculty
- Detail of the instructor/s at the School of Pharmacy, Veterinary Hospital and School of Agricultural Sciences.
- Name & location and brief about the visiting institute/ Hospital
- Different sections/ laboratory/ departments/ Hospital visited and demonstration of Laboratory tests in College of Pharmacy

- Activities being undertaken in School of Pharmacy, Veterinary Hospital and School of Agricultural Sciences
- Treatment being given to the animals at the Hospital
- Herbal Garden visit in School of Agriculture science with identification of plants
- Research activities being undertaken at the school / hospital
- How the visit helped in correlation with topics studied in Theory
- Conclusion
- Group photo

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

#### VII. Assessment

	Formative Assessment	Summative Assessment
	(Internal Assessment)	(University Examination)
M.D.(Hom.)	1st Term Test: During twenty fourth	
Part-II	month of training	During thirty sixth month of
	2 <sup>nd</sup> Term Test: During thirtieth month	training
	of training	

VII (1). M.D. (Homoeopathy) Part-II examination –Maximum marks for each subject and minimum marks required to pass shall be as follows:

Subjects	Theo	ory	Practical or clinical exams including Viva-Voce and dissertation	
	Maximum Marks	Pass Marks	Maximum Marks	Pass Marks
Homoeopathic Pharmacy	100	50	200*	100*
Paper 1			(160 + 40)	(80 + 20)
			(Summative	(Summative
			Assessment 160	Assessment 80
			Marks)	Marks)
			(Internal	(Internal
			Assessment 40	Assessment 20
			Marks)	Marks)
Homoeopathic Pharmacy Paper 2	100	50		

(\*A common practical exam for paper I and II (100 marks practical + 100 marks viva) shall be conducted; twenty per cent. weightage shall be for internal assessment, which shall be calculated for practical or clinical including viva voce only. One internal assessment of 40 marks [20 marks (practical or clinical) + 20 marks (viva voce)] after each term of six months and average of two terms shall be considered. \*eighty per cent. weightage shall be for summative assessment).

VII (2). Assessment Blueprint – Theory (Benchmarked by the module-wise distribution.)

### VII (2a). DISTRIBUTION OF TOPICS FOR THEORY-BASED ASSESSMENT.

### TYPES OF QUESTIONS WITH MARKS

Types of question	No. of questions to be asked	Marks per question	Total
Problem Based Question	01	20	20
Long Answer Question	04	10	40
Short Answer Question	08	05	40
Total	1		100

### Part 2 – Paper 1. Topic Numbers

Hom-PG-HP-07 Prescription Writing and Dispensing

Hom-PG-HP-08Laboratory Methods

Hom-PG-HP-09Drug Laws and Legislation Related to Homoeopathic Pharmacy

Hom-PG-HP-10Standardisation

### Part 2 - Paper 2. Topic Numbers

Hom-PG-HP-11Pharmacognosy

Hom-PG-HP-12 Pharmacopoeia Commission for Indian Medicine & Homoeopathy

Hom-PG-HP-13 Experimental Pharmacology

Hom-PG-HP-14 Pharmacovigilance

Hom-PG-HP-15 Homoeopathic Pharmaceutical Industrial Management

Hom-PG-HP-16 Hospital Pharmacy

Hom-PG-HP-17 Advancements/ Research in Homoeopathic Pharmacy

### VII (2b). QUESTION PAPER LAYOUT

### Part-II, Paper 1

· I			
Q. No.	Type of Question	Content	Marks
1	Problem Based	Hom-PG-HP-10	20
2	LAQ	Hom-PG-HP-07	10
3	LAQ	Hom-PG-HP-09	10
4	LAQ	Hom-PG-HP-10	10
5	LAQ	Hom-PG-HP-09	10
6	SAQ	Hom-PG-HP-07	5
7	SAQ	Hom-PG-HP-08	5
8	SAQ	Hom-PG-HP-09	5
9	SAQ	Hom-PG-HP-07	5
10	SAQ	Hom-PG-HP-08	5
11	SAQ	Hom-PG-HP-09	5
12	SAQ	Hom-PG-HP-08	5
13	SAQ	Hom-PG-HP-09	5

# Part-II, Paper 2

Q.	Type of	Content	Marks
No.	Question	Content	Wiaiks
1	Problem Based	Hom-PG-HP-14/ Hom-PG-HP-15	20
2	LAQ	Hom-PG-HP-11/Hom-PG-HP-13	10
3	LAQ	Hom-PG-HP-12/ Hom-PG-HP-14	10
4	LAQ	Hom-PG-HP-15	10
5	LAQ	Hom-PG-HP-17	10
6	SAQ	Hom-PG-HP-12	5
7	SAQ	Hom-PG-HP-13	5
8	SAQ	Hom-PG-HP-15	5
9	SAQ	Hom-PG-HP-16	5
10	SAQ	Hom-PG-HP-17	5
11	SAQ	Hom-PG-HP-15	5
12	SAQ	Hom-PG-HP-17	5
13	SAQ	Hom-PG-HP-13	5

# VII (3). ASSESSMENT BLUEPRINT –PRACTICAL / VIVA.

# VII (3a). PRACTICAL EXAMINATION.

	PRACTICAL		
1	Internal Assessment	20 Marks	
2	One Major Experiment	50 Marks	
3	One Minor Experiment	20 Marks	
4	Logbook	05 Marks	
5	5 Micro Teaching 05 Marks		
	Total 100 Marks		

# VII (3b). VIVA VOCE.

VIVA			
1	Internal Assessment	20 Marks	
1	Discussion of Dissertation	20 Marks	
2	Viva	60 Marks	
	Total 100 Marks		

### VIII. LIST OF REFERENCE BOOKS (AS PER APA FORMAT).

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### Part I Paper 2

# FUNDAMENTALS OF CLINICAL MEDICINE IN HOMOEOPATHIC PHARMACY (HOM-PG-FCM-HP)

### I. TITLE OF THE SPECIALITY COURSE, AND ITS ABBREVIATION.

M.D. (Homoeopathy) Homoeopathic Pharmacy.

# FUNDAMENTALS OF CLINICAL MEDICINE IN HOMOEOPATHIC PHARMACY (HOM-PG-FCM-HP)

# II. BRIEF DESCRIPTION OF SPECIALITY AND ITS RELEVANCE IN HOMOEOPATHY POST-GRADUATE COURSE.

The course is a clinical counterpart for the Homoeopathic study and is expected to deliver the basic clinical approach to symptomatology of the patient and process of coming to final diagnosis. student of pharmacy needs to master these processes for not only to give meaning to the symptomatology of the prover but also understand the different toxicological and clinical sources of remedies. It gives better insight about the cause, genesis, evolution of the symptoms and its correlation with examination and investigation which are basic requirement to understand the symptomatology of the prover and action of the remedies. This also will guide the learner to differentiate between proving symptoms and developing any clinical entity at the same time will allow him to take appropriate action to deal with it. The study also can guide to develop new drugs from different traditional sources and their clinical use.

### V. TOPICS AND TOPIC OBJECTIVES.

### Part 1 Paper 2:

# FUNDAMENTALS OF CLINICAL MEDICINE IN HOMOEOPATHIC PHARMACY(HOM-PG-FCM-HP)

- Hom-PG-FCM-HP -01: Introduction to the Practice of Evidence-based Medicine.
- Hom-PG-FCM-HP -02: Developing a Basic Clinical Approach. All the following content must be delivered through clinical cases or presentation along with different aspects of Homoeopathic Pharmacy
- Hom-PG-FCM-HP-03: Studying the Cardinal manifestations of disease through their Pathophysiology with Hahnemannian classification of symptoms and Miasmatical classification through clinical cases and bedside and its application to homoeopathic pharmacy
- Hom-PG-FCM-HP-04: Basic Concepts of Nutrition, Nutritional Diseases and miasmatical assessment
- Hom-PG-FCM-HP-05: Interpretations of Laboratory and Radiological Investigations

### **COURSE CONTENT**

### • Hom-PG-FCM-HP-01:

### INTRODUCTION TO THE PRACTICE OF EVIDENCE-BASED MEDICINE.

- a. Concept of evidence-based practice and its importance in relation to Homoeopathic Pharmacy
- b. Importance of developing an ethical base while adhering to the above in relation to Homoeopathic Pharmacy
- **Hom-PG-FCM-HP -02:**Developing a Basic Clinical Approach. All the following content must be delivered through clinical cases or presentation along with different aspects of Homoeopathic Pharmacy
  - a. Correlative study of Normal structure and function to reveal Structural and Functional integrity in Health and understanding the clinical and Hahnemannian concept of health through clinical cases.
  - b. Role of Control Systems (Psycho-Neuro-Endocrine axis and the Reticulo-endothelial System) in the maintenance of Health and initiating the process of breakdown and onset of illness
  - c. Different components which influence health at individual, family and community level leading to insight into preventive and community medicine through Hahnemannian philosophy of holistic health.
  - d. Concept of predisposition and disposition and its influence on development of diseases and application to HP
  - e. Bio-psycho-social and environmental model of Aetiology and correlating with the Hahnemannian concept of causation and evolution of disease and Homoeopathic Pharmacy
  - f. Development of a Symptom as an indication of deviation of functional competence followed by changes in structural integrity the pathogenesis of symptom formation and the Hahnemannian concept of disease and its expression and application to Homoeopathic Pharmacy
  - g. Clinico-pathological correlations and the concept of a syndrome and its ability in understanding miasmatical evolution.
  - h. Bed side- General and Systematic examination and understanding their basis.
  - i. Role of physical examination and clinical investigation in the study of disease.
  - j. Understanding the process of clinical diagnosis
  - k. Importance of differential diagnosis-probable diagnosis and final diagnosis

# FOLLOWING STUDY SHALL HELP IN BUILDING UP THE CLINICAL ASPECTS OF HOMOEOPATHIC PHARMACY

- a. Predisposition
- b. Causation and modifying factors
- c. Pathogenesis, Pathology, Clinico-pathological correlations with pathological end result

- d. Case taking, examination, investigation and approach to clinical diagnosis, differential diagnosis
- e. Management-General and Homoeopathic:
  - i. General Management
  - ii. Standard management:
    - a) Pharmacological effects of homoeopathic medicines, identification of ADR and its effective management, selection of suitable potency, dosage, repetition through the knowledge of Posology.
    - b) Determining most suitable routes of drug administration as per the case.
    - c) Study and practice ideal methods of Dispensing
    - d) To understand the fundamentals of prescription writing and its implementation in clinical practice.
- f. Prognosis
- Hom-PG-FCM-HP-03: Studying the Cardinal manifestations of disease through their Pathophysiology with Hahnemannian classification of symptoms and Miasmatical classification through clinical cases and bedside and its application to homoeopathic pharmacy
  - a. Pain
    - i. Pain:Pathophysiology
    - ii. Chest Pain
    - iii. Abdominal pain
    - iv. Headache
    - v. Back and Neck pain
  - b. Fever-types
  - c. Alteration in Nervous system functions
    - i. Faintness, syncope, dizziness, vertigo
    - ii. Weakness, myalgias, imbalance
    - iii. Numbness, tingling and sensory loss
    - iv. Acute confusional states
    - v. Aphasias
    - vi. Memory loss and dementia
    - vii. Sleep disorder
  - d. Alteration in Respiratory and Circulation
    - i. Dyspnoea (prototype shown in table below)
    - ii. Cough and haemoptysis
    - iii. Cyanosis
    - iv. Oedema
    - v. Shock
  - e. Alteration in Gastrointestinal functions
    - i. Dysphagia
    - ii. Nausea, vomiting, indigestion
    - iii. Diarrhoea and Constipation

- iv. Weight loss
- v. Gastrointestinal bleeding
- vi. Jaundice
- vii. Abdominal swelling and ascites
- f. Alteration in Urinary functions and electrolytes
  - i. Incontinence and lower urinary symptoms
  - ii. Urinary abnormalities
- g. Alteration in Reproductive and Sexual functions
  - i. Erectile dysfunction
  - ii. Disturbances of Menstruation
  - iii. Leucorrhoea
  - iv. Hirsutism
  - v. Infertility
- h. Alteration in Skin functions
  - i. Itching
  - ii. Eruptions
  - iii. Disorders of pigmentation
- i. Haematological alterations
  - i. Anaemia
  - ii. Bleeding
  - iii. Enlargement of Lymph nodes and spleen

### • Hom-PG-FCM-HP-04:

# BASIC CONCEPTS OF NUTRITION, NUTRITIONAL DISEASES AND MIASMATIC ASSESSMENT

- a. Nutritional and Dietary assessment
- b. Malnutrition
- c. Vitamin and Mineral deficiency
- d. Obesity (shown in table below)
- e. Eating disorders

### • Hom-PG-FCM-HP-05:

# INTERPRETATIONS OF LABORATORY AND RADIOLOGICAL INVESTIGATIONS:

- a. Haematology All basic tests
- b. Serology
- c. Biochemistry
- d. Microbiology
- e. Special tests Hormonal Assays Thyroid function tests, LH, FSH, Prolactin, TORCH, Triple marker, IgG/ IgM, HLA B27, Beta HCG, Anti-thyroid antibodies, Anti-cardiolipin antibodies.

- f. Basis Concepts of Radio Imagining like X-rays, CT, MRI
- g. USG
- h. ECG (Basic applications)

Some Topic and content templets are displayed here for guidelines as an example. Rest the institute shall prepare themselves for their implementation and documentation

### VI. COURSE DESCRIPTION

### **TOPIC NAME:HOM-PG-FCM-HP-01:**

### INTRODUCTION TO THE PRACTICE OF EVIDENCE BASED MEDICINE

• Importance of developing an ethical base while adhering to the above in relation to Homoeopathic Pharmacy

Topic Overview:	This Topic will provide students of M.D.Hom (Homoeopathic Pharmacy)with an overview of the significance of displaying ethical based clinical practice in Homoeopathic Pharmacy	
Learning Outcomes:	COMPETENCY HOM-PG-FCM-HP -01 -1-01:  IDENTIFIES ETHICAL BASED CLINICAL PRACTICES IN HP  KNOWLEDGE  Discuss Code of Pharmaceutical Ethics. Study the "National Commission forHomoeopathy (Professional Conduct, Etiquette and Code of Ethics for Practitioners of Homoeopathy) Regulations, 2022". Discuss Guidelines of Good Clinical Practices for Clinical Trials in Homoeopathy. Describe the laws to be followed by Homoeopathic manufacturing units as per Drugs and Cosmetics Rules, 1945  Explain GMP procedure followed by homoeopathic manufacturing units to deliver quality finished products. Conduct / Plan standardisation tests to ensure preparation of quality homoeopathic medicines as per Homoeopathic Pharmacopoeia Report ADR/ medication errors during case taking in a patient Discuss concept of Pharmacovigilance	

	SKILL
	<ul> <li>Demonstrate standardisation tests to ensure genuineness of homoeopathic medicine</li> <li>Demonstrate Cases reporting ADR / medication errors related to concept of Pharmacovigilance in hospital duties</li> <li>Identification and demonstrate use of organopathic drugs related to diseases.</li> </ul>
	REFLECTION  Appreciates the process involved in ensuring ethical based clinical practice in HP
Learning Methods	Case- based, Bed- side, Out – patient based.
Assessment:	Continuous / Programmatic assessment (including Problem Based Learning assessment).  LAQ; Checklist, Ratting Scales, Rubric
Prescribed Texts:	Refer to list attached
Domains of Competencies:	Knowledge & Scholarship / Patient Care / Homoeopathic Orientation / Practice Based Learning

### **TOPIC NAME:** HOM-PG-FCM-HP -03:

Studying the Cardinal manifestations of disease through their Patho-physiology with Hahnemannian classification of symptoms and Miasmatical classification through clinical cases and bedside and its application to homoeopathic pharmacy

# BELOW IS MENTIONED A PROTOTYPE THAT WILL BE APPLIED TO ALL THE SYMPTOMS LISTED IN THE COURSE

Topic Overview:	This Topic will provide students of MD Hom (Homoeopathic Pharmacy about overview of dyspnoea, its understanding in clinical practice and it homoeopathic perspective	
	COMPETENCY HOM-PG-FCM-HP -03-2-01:	
	EXPLORING DYSPNOEA AS A SYMPTOM AND ITS HOLISTIC UNDERSTANDING IN LIGHT OF HOMOEOPATHIC PERSPECTIVE AND CLINICAL MEDICINE	
	KNOWLEDGE:	
	• Discuss etiopathogenesis of dyspnoea and its understanding from clinical medicine.	
	<ul> <li>Discuss etiopathogenesis of dyspnoea and its understanding from homoeopathic perspective</li> </ul>	
	<ul><li>Discuss the other clinical features associated with dyspnoea</li><li>Explain pathogenesis of dyspnoea.</li></ul>	
	<ul> <li>Plan investigation for confirmation of diagnosis</li> </ul>	
	<ul> <li>Formulate provisional clinical diagnosis and differential diagnosis</li> <li>Explain Clinical differentiation of symptoms for assessment of nosological diagnosis</li> </ul>	
Learning	Classify dyspnoea from Hahnemannian classification of disease	
Outcomes:	<ul> <li>Apply clinical insight in classifying miasm (Psoric, Syphilitic and Sycotic)</li> <li>Correlate Hahnemann's concept and modern medicine for the</li> </ul>	
	understanding of dyspnoea	
	<ul><li>Classify the symptoms with analysis and evaluation</li><li>Ascertain prognosis from clinical medicine and homoeopathic</li></ul>	
	perspective	
	<ul> <li>Plan Diet and regimen as per the nosological diagnosis and Hahnemann's directions.</li> </ul>	
	<ul> <li>Plan the line of management (Medicinal and/or auxiliary management)</li> </ul>	
	Plan Strategy for homoeopathic management	
	<ul> <li>Perform Clinical examination of chest and other relevant systems.</li> </ul>	
	<ul> <li>Discuss Knowledge of Posology, Prescription writing,</li> <li>Pharmaconomy in relation to dyspnoea</li> </ul>	
	Acquire knowledge of pharmacological action of the selected medicine for dyspnoea through the study of active drug constituents on human body	

	CIZILI
	SKILL:
	<ul> <li>Demonstrate Homoeopathic Case taking skills including anamnesis</li> <li>Demonstratethe clinical differentiation of symptoms for assessment of nosological diagnosis</li> <li>Interpret suggested investigation for confirmation of diagnosis</li> <li>Demonstrateclinical examination of chest and other relevant systems.</li> <li>Formulate provisional clinical diagnosis and differential diagnosis</li> <li>Describe Homoeopathic approach in terms of anamnesis, susceptibility and miasmatic analysis</li> <li>Discuss analysis and evaluation of Symptoms</li> <li>Discuss formation of Totality</li> <li>Decide the line of management (Medicinal and/or auxiliary management)</li> <li>Discuss strategy for homoeopathic management</li> <li>Practice the ideal prescription writing method and Dispensing technique of medicines</li> <li>Selectpotency as per the principles of Posology</li> <li>Select effective route of administration of indicated SIMILIMUM</li> <li>Discuss proper repetition of doses as per the progress of the case.</li> <li>Ascertain ADR as per the case</li> </ul>
	REFLECTION:
	<ul> <li>Integrated approach in understanding dyspnoea</li> <li>Identify social, economic, environmental, biological and emotional determinants of dyspnoea</li> <li>Applying the concept of Homoeopathic Pharmacy pertaining to potency selection, dose, repetition, route of administration of medicines to dyspnoea patient</li> <li>Identify the action of drug constituents of a SIMILIMUM medicine on respiratory system</li> <li>To avoid ADR and to take necessary measures in case of any adverse drug event</li> </ul>
<b>Learning Methods</b>	Case – based, Bedside, Deliberate practice
Assessment:	Continuous / Programmatic assessment (including Problem Based Learning assessment). Checklist, Ratting Scales, Rubric. SAQ
<b>Prescribed Texts:</b>	Refer to list attached
<b>Domains</b> of	Knowledge & Scholarship / Patient Care / Homoeopathic Orientation
<b>Competencies:</b>	
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# **TOPIC NAME: HOM-PG-FCM-HP-04:**

# BASIC CONCEPTS OF NUTRITION, NUTRITIONAL DISEASES AND MIASMATIC ASSESSMENT

Topic Overview:	This Topic will provide students of MD Hom (Homoeopathic Pharmacy) about overview of Obesity, its understanding in clinical practise and its homoeopathic perspective.
	COMPETENCY HOM-PG-FCM-HP -04-3-01:
	Exploring Obesity as a nutritional disorder, Identifying signs and symptoms of Obesity and its holistic understanding in light of homoeopathic perspective and clinical medicine
	KNOWLEDGE:
	<ul> <li>Discuss knowledge of body fat distribution in males and females.</li> <li>Discuss knowledge of Anthropometric measurement in relation to Obesity</li> <li>Discussetiopathogenesis of Obesity and its understanding from clinical medicine.</li> </ul>
	<ul> <li>Discussetiopathogenesis of Obesity and its understanding from homoeopathic perspective</li> <li>Discuss the clinical features associated with Obesity</li> </ul>
	<ul> <li>Plan investigation for confirmation of diagnosis</li> <li>Describe complications associated with Obesity</li> </ul>
Learning Outcomes:	<ul> <li>Describe complications associated with Obesity</li> <li>Discuss knowledge of general survey of disease (Hahnemannian classification of disease)</li> </ul>
	Discussknowledge of miasm (Psoric, Syphilitic and Sycotic)
	<ul> <li>Describe Homeopathic evaluation of common and characteristic symptoms</li> </ul>
	Correlate Hahnemann's concept and modern medicine for the understanding of Obesity
	<ul> <li>Ascertain prognosis from clinical medicine and homoeopathic perspective</li> </ul>
	<ul> <li>Describe knowledge of Diet and Regimen as per the nosologica diagnosis and Hahnemann's directions.</li> </ul>
	Describeknowledge of Posology, Prescription writing Pharmaconomy
	• Discuss knowledge of pharmacological action of the selected medicine through the study of active drug constituents on human body

	SKILL:
	<ul> <li>Demonstrate Homoeopathic Case taking including anamnesis</li> <li>Demonstrate Clinical differentiation of symptoms for assessment of nosological diagnosis</li> <li>Demonstrate Anthropometric assessments in relation to Obesity</li> <li>Demonstrate suggested investigation for confirmation of diagnosis</li> <li>Perform Clinical examination of relevant systems.</li> <li>Formulate provisional clinical diagnosis and differential diagnosis</li> <li>DemonstrateHomoeopathic skills in terms of anamnesis, susceptibility and miasmatic analysis</li> <li>Demonstrateskills for Analysis and Evaluation of Symptoms</li> <li>Construct Totality of symptoms</li> <li>Decide the line of management (Medicinal and/or auxiliary management)</li> <li>Plan Strategy for homoeopathic management</li> <li>Practice the ideal prescription writing method and Dispensing technique of medicines</li> <li>Select potency as per the principles of Posology</li> <li>Select effective route of administration of indicated SIMILIMUM</li> <li>Demonstrate Proper repetition of doses as per the progress of the case.</li> <li>Ascertain ADR</li> <li>REFLECTION:</li> <li>Integrated approach in understanding Obesity</li> <li>Applying the concept of Homoeopathic Pharmacy pertaining to potency selection, dose, repetition, route of administration of medicines to Obese patient</li> <li>Identify the action of active drug constituents of a SIMILIMUM</li> </ul>
Learning Methods	medicine on different systems of the body  Case – based, bedside, Out – patient based, Deliberate practice
Learning Methods	· ·
Assessment:	Continuous / Programmatic assessment (including Problem Based Learning assessment).  Application Based Questions
<b>Prescribed Texts:</b>	Refer to list attached
Domains of Competencies:	Knowledge & Scholarship / Patient Care / Homoeopathic Orientation

**TOPIC NAME:** HOM-PG-FCM-HP -05:

### INTERPRETATIONS OF LABORATORY AND RADIOLOGICAL INVESTIGATIONS

# BELOW IS MENTIONED A PROTOTYPE THAT WILL BE APPLIED TO ALL THE INVESTIGATION LISTED IN THE COURSE

Topic Overview:	This Topic will provide students of MD Hom (Homoeopathic Pharmacy) aboutoverview of Liver Function test, its understanding in clinical practice and its homoeopathic perspective.		
	COMPETENCY HOM-PG-FCM-HP -05-4-01: INTERPRETATION OF LIVER FUNCTION TEST CONSIDERING HOMOEOPATHIC PERSPECTIVE AND CLINICAL MEDICINE. KNOWLEDGE:		
Learning Outcomes:	<ul> <li>Explain knowledge of liver functions</li> <li>Discuss etiopathogenesis of liver disorders</li> <li>Interpret investigation for liver diseases</li> <li>Classify the liver function in to functional and structural representation</li> <li>Classify the liver function as representation of different Miasm (Psoric, Syphilitic and Sycotic)</li> <li>Explain susceptibility in relation to Liver function test</li> <li>Correlate Hahnemann's concept and modern medicine for the understanding of liver function test</li> <li>Justify prognosis from clinical and homoeopathic medicine basing on liver functions test.</li> <li>Plan the line of management based on Liver Function test</li> <li>Discuss knowledge of Diet and regimen as per the nosological diagnosis.</li> <li>Discuss knowledge of selection of potency, repetition of doses through Homoeopathic Pharmacy</li> </ul>		
	SKILL:  • Perform clinical and homoeopathic history based on laboratory		
	<ul> <li>findings.</li> <li>Corelation of clinical history with laboratory finding.</li> <li>Utilisation of laboratory findings in selection of medicine, potency, repetition of doses.</li> </ul>		
	REFLECTION:		
	Relate use of laboratory test in judicious management of clinical		

	<ul> <li>cases</li> <li>Relating utility of laboratory finding in potency selection, repetition of doses through knowledge of homoeopathic pharmacy</li> </ul>		
Learning Methods	Case – Based, out – patient based, Bedside, reflective learning.		
Assessment:	Continuous / Programmatic assessment (including Problem Based Learning assessment).  SAQ; Checklist, Ratting Scales, Rubric.		
<b>Prescribed Texts:</b>	Refer to list attached		
Domains of Competencies:	Knowledge & Scholarship / Patient Care / Homoeopathic Orientation		

## VII. ASSESSMENT

	Formative Assessment	Summative Assessment
	(Internal Assessment)	(University Examination)
M.D.(Hom.)	1st Term Test: During sixth month of	
Part-I	training	During eighteenth month of
	2 <sup>nd</sup> Term Test: During twelfth month	training
	of training	

## VII (1). M.D. (HOMOEOPATHY) PART-I EXAMINATION:

# MAXIMUM MARKS FOR EACH SUBJECT AND MINIMUM MARKS REQUIRED TO PASS SHALL BE AS FOLLOWS:

Subjects	Theory		Practical or Clinical Examination, including Viva	
Subjects	Maximum Marks	Pass Marks	Maximum Marks	Pass Marks
i. Fundamentals of Homoeopathic Pharmacy	100	50	200* (160 + 40) (Summative Assessment 160 Marks) (Internal Assessment 40 Marks)	100* (80 + 20) (Summative Assessment 80 Marks) (Internal Assessment 20 Marks)
ii. Fundamentals of Clinical Medicine in Homoeopathic Pharmacy	100	50		
iii.Research Methodology and Biostatistics	100	50	-	-

(\*A common practical exam for paper I and II (100 marks practical + 100 marks viva) shall be conducted; twenty per cent. weightage shall be for internal assessment, which shall be calculated for practical or clinical including viva voce only. One internal assessment of 40 marks [20 marks (practical or clinical) + 20 marks (viva voce)] after each term of six months and average of two terms shall be considered. \*eighty per cent. weightage shall be for summative assessment).

VII (2). ASSESSMENT BLUEPRINT – THEORY (benchmarked by the module-wise distribution.)

### VII (2A). DISTRIBUTION OF TOPICS FOR THEORY-BASED ASSESSMENT.

### TYPES OF QUESTIONS WITH MARKS

Types of question	No. of questions to be asked	Marks per question	Total
Problem Based Question	01	20	20
Long Answer Question	04	10	40
Short Answer Question	08	05	40
Total			100

### PART 1 – PAPER 2. TOPIC NUMBERS

- Hom-PG-FCM-HP-01: Introduction to the Practice of Evidence-based Medicine.
- Hom-PG-FCM-HP-02: Developing a Basic Clinical Approach. All the following content must be delivered through clinical cases or presentation along with different aspects of Homoeopathic Pharmacy
- Hom-PG-FCM-HP-03: Studying the Cardinal manifestations of disease through their Patho-physiology with Hahnemannian classification of symptoms and Miasmatic classification through clinical cases and bedside and its application to homoeopathic pharmacy
- Hom-PG-FCM-HP-04:Basic Concepts of Nutrition, Nutritional Diseases and miasmatic assessment
- Hom-PG-FCM-HP-05:Interpretations of Laboratory and Radiological Investigations

VII (2 B). QUESTION PAPER LAYOUT

Q. No.	Type of Question	Content	Marks
		Problem/ Case Based Question with application to	
1	Problem Based	Homoeopathic Pharmacy	20
		Hom-PG-FCM-HP -01 or 03 or 04	
2	LAQ	Hom-PG-FCM-HP –01	10
3	LAQ	Hom-PG-FCM-HP –03: a or c	10
4	LAQ	Hom-PG-FCM-HP -03: d	10
5	LAQ	Hom-PG-FCM-HP –03: e	10
6	SAQ	Hom-PG-FCM-HP –04	5
7	SAQ	Hom-PG-FCM-HP –03: b or i	5
8	SAQ	Hom-PG-FCM-HP –03: f	5
9	SAQ	Hom-PG-FCM-HP –03: g	5
10	SAQ	Hom-PG-FCM-HP –03: h	5
11	SAQ	Hom-PG-FCM-HP –05: a or b or c	5
12	SAQ	Hom-PG-FCM-HP –05: d or e	5
13	SAQ	Hom-PG-FCM-HP –05: f or g or h	5

VII (3). Assessment Blueprint –Practical / Viva:

VII (3a). Practical examination: A Common Practical/viva for Part I Paper 1 and 2.

VIII. List of Reference Books (As per APA Format).

# VIII. LIST OF RECOMMENDED REFERENCE BOOKS FOR THE PRACTICE OF MEDICINE:

- 1. Bates, B., Bickley, Lynn, S. and Szilagyi, Peter, G. (2013) *Bates' Guide to Physical Examination and history taking*. Philadelphia u.a.: Wolters Kluwer, Lippincott Williams & Wilkins.
- 2. Beeson, P. B., McDermott, W., & Wyngaarden, J. B. (Eds.). (1979). *Cecil Textbook of Medicine* (Asian Edition ed.). Philadelphia: W. B. Saunders Company.
- 3. Boyd, W. (1979). *A Textbook of Pathology* (8th ed.). London: Lea & Febiger, Philadelphia.
- 4. Cecil, R.L. and Kennedy, F. (1943) A text-book of medicine. Philadelphia: Saunders
- 5. Datey, K.K. and Shah, S.J. (1979) A.P.I. textbook of medicine. Bombay: Association of Physicians of India
- 6. Davis, M.A. (1999) Signs and symptoms in emergency medicine: Literature-based guide to emergent conditions; Mark A. Davis. St. Louis, MO: Mosby
- 7. Fauci, A. S., Kasper, D. L., Longo, D. L., Braunwald, E., Hauser, S. L., Jameson, J. L., et al. (Eds.). (2008). *Harrison's Principles of Internal Medicine* (17th Edition ed.). New York: Mc Graw Hill Medical.
- 8. Frazier, H.S. and Mosteller, F. (1995) *Medicine worth paying for: Assessing Medical Innovations*. Cambridge, MA: Harvard University Press.
- 9. Glynn, M., & Drake, W. (Eds.). (2012). *Hutchison's Clinical Methods* (23rd ed.). China: Saunders Elsevier.
- 10. Golwalla, A. F., & Golwalla, S. A. (2000). *Golwalla Medicine for Students* (19th ed.). Mumbai: Dr. A. F. Golwalla Empress Court, Mumbai.
- 11. Gupta, L., Gupta, Abhitabh and Gupta, Abhishek (2005) *Differential diagnosis: Medicine, surgery, OB/GYN, Ophth, paed, dental.* New Delhi: Jaypee Bros.
- 12. Hurst, J. W. (Ed.). (1992). *Medicine for the Practicing Physician* (3rd ed.). USA: Butterworth Heineman, Stoneham.
- 13. Kamath, S. A. (Ed.). (2022). *API Textbook of Medicine* (12th ed.). New Delhi: Jaypee Brothers Medical Publishers (P) Ltd, New Delhi.
- 14. Kaul, V. K., & Bagga, A. (Eds.). (2019). *Ghai Essential Pediatrics* (10th ed.). New Delhi: CBS Publishers & Distributers Pvt Ltd, New Delhi.
- 15. Kinirons, M., & Ellis, H. (Eds.). (2005). French's Index of Differential Diagnosis (14th ed.). London: Hodder Arnold.
- 16. Kumar, P., & Clark, M. (Eds.). (2005). Clinical Medicine (6th ed.). Elsevier Saunders.
- 17. Malhotra, N., Malhotra, J., Saxena, R., & Malhotra Bora, N. (Eds.). (2019). *Jeffcoate's Principles of Gynaecology* (9th ed.). New Delhi: Jaypee Brothers Medical Publishers (P) Ltd.
- 18. Mehta, P.J. and Palia, F.E. (1979) *Practical medicine for students and Practitioners*. Bombay: P.J. Mehta and F.E. Palia.
- 19. Ogilvie, C., & Evans, C. (2006). *Chamberlain's Symptoms and Signs in Clinical Practice* (12th ed.). New Delhi: Jaypee Brothers Medical Publishers (P) Ltd.
- 20. Parthasarathy, A., Menon, P., & Nair, M. (Eds.). (2019). *IAP Textbook of Pediatrics* (7th ed.). New Delhi: Jaypee Brothers Medical Publishers (P) Ltd, New Delhi.
- 21. Penman, I. D., Ralston, S. H., Strachan, M. W., & Hobson, R. P. (Eds.). (2022). *Davidson's Principles and Practice of Medicine* (24th Edition ed.). Elsevier.

- 22. Rao, L. V., & Snyder, L. M. (2021). Wallach's Interpretation of Diagnostic Tests (South Asian Edition ed.). (S. Dubey, Ed.) New Delhi: Wolters Kluwer Pvt. Ltd. New Delhi.
- 23. Savill, T.D. and Warner, E.C. (1950) *Savill's System of Clinical Medicine*. edited by E.C. Warner. London: Edward Arnold & Co.
- 24. Swash, M. (2006) Hutchison's clinical methods. Orlando, Fl.: Saunders
- 25. Vakil, R.J. and Golwalla, A.F. (1974) *Clinical diagnosis: A textbook of physical signs and symptoms for medical students and practitioners.* Bombay: Asia Pub. House.
- 26. Wallach, J. (2007) Interpretation of diagnostic tests. Philadelphia: Wolters Kluwer.

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