

## PHARMACOLOGY–II

### Including Fundamentals of Prescribing Module

**PLACEMENT:** IV SEMESTER

**THEORY:** 3 Credits (60 hours)

**DESCRIPTION:** This course is designed to enable students to acquire understanding of Pharmacodynamics, Pharmacokinetics, principles of therapeutics & nursing implications. Further it develops understanding of fundamental principles of prescribing in students

**COMPETENCIES:** On completion of the course, the students will be able to

1. Explain the drugs used in the treatment of ear, nose, throat and eye disorders.
2. Explain the drugs used in the treatment of urinary system disorders.
3. Describe the drugs used in the treatment of nervous system disorders.
4. Explain the drugs used for hormonal replacement and for the pregnant women during antenatal, intra natal and postnatal period.
5. Explain the drugs used to treat emergency conditions and immuned disorders.
6. Discuss the role and responsibilities of nurses towards safe administration of drugs used to treat disorders of various systems with basic understanding of pharmacology.
7. Demonstrate understanding about the drugs used in an alternative system of medicine.
8. Demonstrate understanding about the fundamental principles of prescribing

**COURSE OUTLINE**

**T–Theory**

<b>Unit</b>	<b>Time (Hrs)</b>	<b>Learning Outcomes</b>	<b>Content</b>	<b>Teaching/ Learning Activities</b>	<b>Assessment Methods</b>
<b>I</b>	4(T)	Describe drugs used in disorders of ear, nose, throat and eye and nurses' responsibilities	<b>Drugs used in disorders of ear, nose, throat &amp; Eye</b> <ul style="list-style-type: none"> <li>● Antihistamines</li> <li>● Topical applications for eye (Chloramphenicol, Gentamycin eyedrops), ear (Soda glycerin, boric spirit ear drops), nose and buccal cavity-chlorhexidine mouthwash</li> <li>● Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse</li> </ul>	<ul style="list-style-type: none"> <li>● Lecture cum Discussion</li> <li>● Drug study/presentation</li> </ul>	<ul style="list-style-type: none"> <li>● Short answer</li> <li>● Objective type</li> </ul>
<b>II</b>	4(T)	Describe drugs acting on urinary system & nurse's responsibilities	<b>Drugs used on urinary system</b> <ul style="list-style-type: none"> <li>● Pharmacology of commonly used drugs                             <ul style="list-style-type: none"> <li>○ Renin-angiotensin system</li> <li>○ Diuretics and antidiuretics</li> <li>○ Drug toxic to kidney</li> <li>○ Urinary antiseptics</li> <li>○ Treatment of UTI – acidifiers and alkalinizers</li> </ul> </li> <li>● Composition, action, dosage, route, indications, contraindications, Drug interactions, side effects, adverse effects, toxicity and role of nurse</li> </ul>	<ul style="list-style-type: none"> <li>● Lecture cum Discussion</li> <li>● Drug study/presentation</li> </ul>	<ul style="list-style-type: none"> <li>● Short answer</li> <li>● Objective type</li> </ul>
<b>III</b>	10(T)	Describe drugs used on nervous system & nurse's responsibilities	<b>Drugs acting on nervous system</b> <ul style="list-style-type: none"> <li>● Basis &amp; applied pharmacology of commonly used drugs</li> <li>● Analgesics and anaesthetics                             <ul style="list-style-type: none"> <li>○ Analgesics: Non-steroidal anti-inflammatory (NSAID) drugs</li> <li>○ Antipyretics</li> <li>○ Opioids &amp; other central analgesics                                     <ul style="list-style-type: none"> <li>✓ General (techniques of GA, preanesthetic medication) &amp; local anesthetics</li> <li>✓ Gases: oxygen, nitrous oxide, carbon-dioxide &amp; others</li> </ul> </li> </ul> </li> <li>● Hypnotics and sedatives</li> <li>● Skeletal muscle relaxants</li> <li>● Antipsychotics</li> <li>○ Mood stabilizers</li> <li>● Antidepressants</li> <li>● Antianxiety Drugs</li> <li>● Anticonvulsants</li> </ul>	<ul style="list-style-type: none"> <li>● Lecture cum Discussion</li> <li>● Drug study/presentation</li> </ul>	<ul style="list-style-type: none"> <li>● Short answer</li> <li>● Objective type</li> </ul>

			<ul style="list-style-type: none"> <li>• Drugs for neurodegenerative disorders &amp; miscellaneous drugs</li> <li>• Stimulants, ethyl alcohol and treatment of methyl alcohol poisoning</li> </ul> <p>Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse</p>		
IV	5(T)	Describe drugs used for hormonal disorder & supplementation, contraception & medical termination of pregnancy & nurse's responsibilities	<p><b>Drugs used for hormonal, disorders and supplementation, contraception and medical termination of pregnancy</b></p> <ul style="list-style-type: none"> <li>• Estrogens and progesterones <ul style="list-style-type: none"> <li>○ Oral contraceptives and hormone replacement therapy</li> </ul> </li> <li>• Vaginal contraceptives</li> <li>• Drugs for infertility and medical termination of pregnancy <ul style="list-style-type: none"> <li>○ Uterine stimulants and relaxants</li> </ul> </li> <li>• Composition, actions dosage route indications contraindications, drugs interactions, side effects, adverse effects, toxicity and role of nurse</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Drug study/presentation</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer</li> <li>• Objective type</li> </ul>
V	3(T)	Develop understanding about important drugs used for women before, during and after labour	<p><b>Drugs used for pregnant women during antenatal, labour and postnatal period</b></p> <ul style="list-style-type: none"> <li>• Tetanus prophylaxis</li> <li>• Iron and Vit K1 supplementation</li> <li>• Oxytocin, Misoprostol</li> <li>• Ergometrine</li> <li>• Methyl prostaglandin F2-alpha</li> <li>• Magnesium sulphate</li> <li>• Calcium gluconate</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Drug study/presentation</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer</li> <li>• Objective type</li> </ul>
VI	10(T)	Describe drugs used in addiction, emergency, poisoning, vitamins & mineral supplementation, drugs used for immunization & immune-suppression & nurse's responsibilities	<p><b>Miscellaneous</b></p> <ul style="list-style-type: none"> <li>• Drugs used for addiction</li> <li>• Drugs used in CPR and emergency - adrenaline, Chlorpheniramine, hydrocortisone, Dexamethasone</li> <li>• IV fluids &amp; electrolytes replacement</li> <li>• Common poisons, drugs used for treatment of poisoning <ul style="list-style-type: none"> <li>○ Activated charcoal</li> <li>○ Ipecac</li> <li>○ Antidotes,</li> <li>○ Anti-snake venom (ASV)</li> </ul> </li> <li>• Vitamins and mineral supplementation</li> <li>• Vaccines &amp; sera (Universal immunization programs schedules)</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture cum Discussion</li> <li>• Drug study/presentation</li> </ul>	<ul style="list-style-type: none"> <li>• Short answer</li> <li>• Objective type</li> </ul>

			<ul style="list-style-type: none"> <li>Anticancer drugs: Chemotherapeutic drugs commonly used</li> <li>Immuno-suppressants and Immunostimulants</li> </ul>		
<b>VII</b>	4(T)	Demonstrate awareness of common drugs used in alternative system of medicine	<b>Introduction to drugs used in alternative systems of medicine</b> <ul style="list-style-type: none"> <li>Ayurveda, Homeopathy, Unani and Siddha etc.</li> <li>Drugs used for common ailments</li> </ul>	<ul style="list-style-type: none"> <li>Lecture cum Discussion</li> <li>Observational visit</li> </ul>	<ul style="list-style-type: none"> <li>Short answer</li> <li>Objective type</li> </ul>
<b>VIII</b>	20(T)	Demonstrate understanding about fundamental principles of prescribing	<b>Fundamental principles of prescribing</b> <ul style="list-style-type: none"> <li>Prescriptive role of nurse practitioners: Introduction</li> <li>Legal and ethical issues related to prescribing</li> <li>Principles of prescribing</li> <li>Steps of prescribing</li> <li>Prescribing competencies</li> </ul>	<ul style="list-style-type: none"> <li>Completion of module on Fundamental principles of prescribing</li> </ul>	<ul style="list-style-type: none"> <li>Short answer</li> <li>Assignments evaluation</li> </ul>

#### DISTRIBUTION OF TEACHING HOURS

STRATEGY		Teaching hours
Didactic (60 hours)	Lectures	54
	Tutorial	6
	Total hours	60 hours

#### TOPICS & OUTCOMES IN NURSING FOUNDATION

Subjects	Number of Themes	Number of outcomes
Pharmacology-II	08	40

#### DISTRIBUTION OF THEORY HOURS

S. N.	Theme	Topics	Teaching hrs
1	Drugs used in disorders of ear, nose, throat & Eye	Drugs used in disorders of ear, nose, throat & Eye	4 Hrs
2	Drugs used on urinary system	Drugs used on urinary system	4 Hrs
3	Drugs acting on nervous system	Drugs acting on nervous system	10 Hrs
4	Drugs used for hormonal, disorders and supplementation, contraception and medical termination of pregnancy	Drugs used for hormonal, disorders and supplementation, contraception and medical termination of pregnancy	5 Hrs
5	Drugs used for pregnant women during antenatal, labour and postnatal period	Drugs used for pregnant women during antenatal, labour and postnatal period	3 Hrs
6	Miscellaneous	Miscellaneous	10 Hrs
7	Introduction to drugs used	Introduction to drugs used	4 Hrs

	<b>inalternativesystemsofmedicine</b>	<b>inalternativesystemsofmedi cine</b>	
<b>8</b>	<b>Fundamentalprinciplesofprescribing</b>	<b>Fundamentalprinciplesofprescribing</b>	<b>20 Hrs</b>
<b>Total hours</b>			<b>60 hours</b>

**PHARMACOLOGY**

Theme and total hours allotted	Objectives	Topic	Code No	Competency	core competency		Non core competency	
					Must Know (60%)	Desirable to Know (30%)	Nice to Know (10%)	
<b>Unit I</b> <b>Drugsusedindisorders of fear,nose,throat &amp; Eye</b> (4Hrs)	At the end of unit student are able to <b>Knowledge:</b> Understand and explain various agents used indisorders of fear,nose,throat& Eye <b>Skill:</b> Administer medication correctly indisorders of fear,nose,throat& Eye <b>Attitude:</b> Observe the clients for adverse effects and therapeutic effects of drugs used indisorders of fear,nose,throat& Eye	Drugsusedindisorders of fear,nose,throat& Eye	PHAR(II)205:IVSEM1.1	Explain topical applications for eye(Chloramphenicol, Gentamycin eyedrops),	<b>Drugsusedindisorders of fear,nose,throat&amp; Eye</b> <ul style="list-style-type: none"> <li>Topical applications for eye(Chloramphenicol, Gentamycin eyedrops)</li> </ul>			1 Hr
			PHAR(II)205:IVSEM1.2	Describe drugs used indisorders of ear (Soda glycerin, boric spiritear drops) andnurses ‘responsibilities	<ul style="list-style-type: none"> <li>ear (Soda glycerin, boric spiritear drops),</li> </ul>			1 Hr
			PHAR(II)205:IVSEM1.3	Describe drugs used indisorders of nose throat and buccal cavity-chlorhexidine mouthwash and nurses ‘responsibilities	<ul style="list-style-type: none"> <li>nose and buccal cavity-chlorhexidine mouthwash</li> <li>Composition,action,dosage,route,indications, contraindications, druginteractions, side effects, adverseeffects,toxicity androle of nurse</li> </ul>			1 Hr
			PHAR(II)205:IVSEM1.4	Describe Antihistamines	<ul style="list-style-type: none"> <li>Antihistamines</li> </ul>			1 Hr
<b>Unit II</b> <b>Drugsusedonurinary system</b> (4Hrs)	At the end of unit student are able to <b>Knowledge:</b> Understand and explain different therapeutic agents used in the treatment of urinary tract disorders. <b>Skill:</b> Administer all categories of therapeutic agents correctly to the patients of urinary tract disorders. <b>Attitude:</b> Observe the clients for adverse effects and therapeutic effects of the	Drugsusedonurinary system	PHAR(II)205:IVSEM2.1	Explain Reninangiotensinsystem, Diureticsandantidiuretics	<b>Drugsusedonurinary system</b> <ul style="list-style-type: none"> <li>Pharmacologyofcommonlyuseddrugs                             <ul style="list-style-type: none"> <li>Reninangiotensinsystem</li> </ul> </li> </ul>			2 Hr
			PHAR(II)205:IVSEM2.2	Describe Treatment of UTI – acidifiers andalkalinizers	<ul style="list-style-type: none"> <li>Diureticsandantidiuretics                             <ul style="list-style-type: none"> <li>Treatment of UTI – acidifiers andalkalinizers</li> </ul> </li> <li>Composition, action, dosage, route,indications,contraindications,Druginteractions, side effects, adverseeffectstoxicityandrole of nurse</li> </ul>			1 Hr

	drugs used in the treatment of urinary disorders.		PHAR(II)205:IVSEM2.3	Describe Drugstoixctokidney And Urinaryantiseptics		<ul style="list-style-type: none"> <li>○ Drugstoixctokidney</li> <li>○ Urinaryantiseptics</li> </ul>		1 Hr.
<b>Unit III</b> <b>Drugsactingonnervoussystem</b> (10Hrs)	At the end of unit student are able to <b>Knowledge:</b> Understand and explain different agents used for the treatment of nervous system disorders. <b>Skill:</b> Administer medications in neurological conditions correctly. <b>Attitude:</b> Observe the clients for adverse effects and therapeutic effects of the drugs used in the neurological disorders.	<b>Drugsactingonnervoussystem</b>	PHAR(II)205:IVSEM3.1	Describe Basis&appliedpharmacology ofcommonly usedAnalgesicsand antipyretics &nurse'sresponsibilities	<b>Drugsactingonnervoussystem</b> <ul style="list-style-type: none"> <li>● Basis&amp;appliedpharmacologyofcommonly useddrugs</li> <li>● Analgesicsandanaesthetics               <ul style="list-style-type: none"> <li>○ Analgesics:Non-steroidalanti-inflammatory(NSAID)drugs</li> <li>○ Antipyretics</li> </ul> </li> </ul>			2 Hr.
			PHAR(II)205:IVSEM3.2	Describe Basis&appliedpharmacologyofcommonly usedanaesthetics including Opioids&othercentralanalgesicb &nurse'sresponsibilities	<ul style="list-style-type: none"> <li>○ Opioids&amp;othercentralanalgesics               <ul style="list-style-type: none"> <li>✓ General(techniquesof GA,preanesthetic medication) &amp; localanesthetics</li> <li>✓ Gases:oxygen,nitrous oxide,carbon-dioxide &amp; others</li> </ul> </li> </ul>			2 Hr.
			PHAR(II)205:IVSEM3.3	Describe anticonvulsant drugs	<ul style="list-style-type: none"> <li>● Anticonvulsants</li> <li>● Composition,action,dosage ,route,indications, contraindications, druginteractions, side effects, adverseeffectstoxicityandroleofnurse</li> </ul>			1 Hr.
			PHAR(II)205:IVSEM3.4	Explain Hypnoticsandsedative		<ul style="list-style-type: none"> <li>● Hypnoticsandsedatives</li> </ul>		1 Hr
			PHAR(II)205:IVSEM3.5	Explain Skeletalmusclerelaxants		<ul style="list-style-type: none"> <li>● Skeletalmusclerelaxants</li> </ul>		½ Hr
			PHAR(II)205:IVSEM3.6	Describe drugs for		<ul style="list-style-type: none"> <li>● Drugs for</li> </ul>		½ Hr

				neurodegenerative disorders & miscellaneous drugs		neurodegenerative disorders & miscellaneous drugs		
			PHAR(II)205:IVSEM3.7	Explain Stimulants, ethyl alcohol and treatment of methyl alcohol poisoning		Stimulants, ethyl alcohol and treatment of methyl alcohol poisoning		1 Hr
			PHAR(II)205:IVSEM3.8	Explain Antipsychotics and mood stabilizers, Antidepressants, Antianxiety Drugs			<ul style="list-style-type: none"> <li>• Antipsychotics</li> <li>• Mood stabilizers</li> <li>• Antidepressants</li> <li>• Antianxiety Drugs</li> </ul>	2 Hr
<b>Unit IV</b> <b>Drugs used for hormonal, disorders and supplementation, contraception and medical termination of pregnancy</b> (5Hrs)	At the end of unit student are able to <b>Knowledge:</b> Understand and explain drugs used in hormonal disorders. <b>Skill:</b> Administer different hormonal therapies. <b>Attitude:</b> Observe the clients for adverse effects and therapeutic effects of the hormonal therapies.	<b>Drugs used for hormonal, disorders and supplementation, contraception and medical termination of pregnancy</b>	PHAR(II)205:IVSEM4.1	Describe drugs used for hormonal disorder & supplementation, contraception & nurse's responsibilities	<b>Drugs used for hormonal, disorders and supplementation, contraception and medical termination of pregnancy</b> <ul style="list-style-type: none"> <li>• Estrogens and progesterones</li> <li>• Oral contraceptives and hormone replacement therapy</li> <li>• Vaginal contraceptives</li> <li>• Composition, actions dosage route indications contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse</li> </ul>			2 Hr
			PHAR(II)205:IVSEM4.2	Describe drugs for infertility & nurse's responsibilities		Drugs for infertility and		1 Hr



			PHAR(II)205:IVSEM4.3	Explain drugs for medical termination of pregnancy & nurse's responsibilities		medical termination of pregnancy		1 Hr
			PHAR(II)205:IVSEM4.4	Explain Uterine stimulants and relaxants & nurse's responsibilities			Uterine stimulants and relaxants	1 Hr
<b>Unit V</b> <b>Drugs used for pregnant women during antenatal, labour and postnatal period</b> (3Hrs)	At the end of unit student are able to <b>Knowledge:</b> Understand and explain drugs for pregnant women during antenatal, labour and postnatal period <b>Skill:</b> Administer different drugs for pregnant women during antenatal, labour and postnatal period  <b>Attitude:</b> Observe the clients for adverse effects and therapeutic effects of the for pregnant women during antenatal, labour and postnatal period	<b>Drugs used for pregnant women during antenatal, labour and postnatal period</b>	PHAR(II)205:IVSEM5.1	Explain about important drugs used for women before labour	<b>Drugs used for pregnant women during antenatal, labour and postnatal period</b>			1 Hr
			PHAR(II)205:IVSEM5.2	Explain important drugs used for women during labour	<ul style="list-style-type: none"> <li>• Tetanus prophylaxis</li> <li>• Iron and</li> <li>• Misoprostol</li> </ul>			½ Hr
			PHAR(II)205:IVSEM5.3	Describe important drugs used for women after labour	<ul style="list-style-type: none"> <li>• Ergometrine</li> <li>• VitK1 supplementation</li> </ul>			½ Hr
			PHAR(II)205:IVSEM5.4	Explain Magnesium sulphate Calcium gluconate	<ul style="list-style-type: none"> <li>• Magnesium sulphate</li> <li>• Calcium gluconate</li> </ul>			1 Hr
<b>Unit VI</b> <b>Miscellaneous</b> (10Hrs)	At the end of unit student are able to <b>Knowledge:</b> Understand and explain different categories of drugs used in de-addiction, emergency resuscitation and as supplements and antisera. <b>Skill:</b> Administer all these	<b>Miscellaneous</b>	PHAR(II)205:IVSEM6.1	Describe drugs used in de-addiction, emergency (CPR) and IV fluid and electrolyte replacement and nurse's responsibilities	<b>Miscellaneous</b>			3 Hrs
					<ul style="list-style-type: none"> <li>• Drugs used for de-addiction</li> <li>• Drugs used in CPR and emergency-adrenaline, Chlorpheniramine, hydrocortisone, Dexamethasone</li> <li>• IV fluids &amp; electrolyte replacement</li> </ul>			

	categories of drugs correctly. <b>Attitude:</b> Participate in the immunization programme and educate people about immunization.		PHAR(II)205:IVSEM6.2	Describe drugs used in treatment of poisoning, and nurse's responsibilities	<ul style="list-style-type: none"> <li>• Commonpoisons,druguse dfortreatmentofpoisoning <ul style="list-style-type: none"> <li>oActivatedcharcoal</li> <li>o Ipecac</li> <li>o Antidotes,</li> <li>o Anti-snakevenom(ASV)</li> </ul> </li> </ul>			3 Hrs
			PHAR(II)205:IVSEM6.3	Describe Vitamin and nurse's responsibilities		<ul style="list-style-type: none"> <li>• Vitaminsand</li> </ul>		½ Hr
			PHAR(II)205:IVSEM6.4	Describe mineralssupplementation and nurse's responsibilities		<ul style="list-style-type: none"> <li>• mineralssupplement ation</li> </ul>		½ Hr
			PHAR(II)205:IVSEM6.5	Explain drugs used forimmunization and nurse's responsibilities		<ul style="list-style-type: none"> <li>• Vaccines &amp; sera (Universalimmunizationpr ogramscheduled es)</li> </ul>		1 Hr
			PHAR(II)205:IVSEM6.6	Describe Anticancerdrugs		<ul style="list-style-type: none"> <li>• Anticancerdrugs:C hemotherapeuticdr ugscommonlyused</li> </ul>		1 Hr
			PHAR(II)205:IVSEM6.7	Explain immune-suppression&Immunostimulants and nurse's responsibilities		<ul style="list-style-type: none"> <li>• Immuno-suppressants andImmunost imulants</li> </ul>		1 Hr
<b>Unit VII Introduction to drugs used inalternativesystem ofmedicine (4Hrs)</b>	At the end of unit student are able to <b>Knowledge:</b> Understand and explain drugs used in alternative system of medicine. <b>Skill:</b> Administer prescribed drugs from alternative system of medicine. <b>Attitude:</b> Observe the clients for	<b>Introduction to drugs used inalternativesystemsofmedicine</b>	PHAR(II)205:IVSEM7.1	Describe commondrugs used inayurveda	<b>Introduction to drugs used inalternativesystemsof medicine</b>			1Hr
			PHAR(II)205:IVSEM7.2	Describe commondrugs used inHomeopathy,	<ul style="list-style-type: none"> <li>• Ayurveda,</li> <li>• Homeopathy,</li> </ul>			1Hr
			PHAR(II)205:IVSEM7.3	Describe commondrugs used inUnani	<ul style="list-style-type: none"> <li>• Unaniand</li> </ul>			½ Hr

	adverse effects and therapeutic effects of the drugs used in alternative systems of medicine		PHAR(II)205:IVSEM7.4	Describe common drugs used in Siddha	<ul style="list-style-type: none"> <li>Siddha etc.</li> </ul>			1/2 Hr
			PHAR(II)205:IVSEM7.5	Explain Drugs used for common ailments		<ul style="list-style-type: none"> <li>Drugs used for common ailments</li> </ul>		1 Hr
<b>Unit VIII</b> <b>Fundamental principles of prescribing</b> (20Hrs)	At the end of unit student are able to <b>Knowledge:</b> Understand and explain Fundamental principles of prescribing <b>Skill:</b> Administer prescribed drugs by using principles of prescribing <b>Attitude:</b> Observe the clients for adverse effects and therapeutic effects of the drugs used in alternative systems of medicine	<b>Fundamental principles of prescribing</b>	PHAR(II)205:IVSEM8.1	Explain Prescriptive role of nurse practitioners	<b>Fundamental principles of prescribing</b> <ul style="list-style-type: none"> <li>Prescriptive role of nurse practitioners: Introduction</li> </ul>			4
			PHAR(II)205:IVSEM8.2	Describe Legal and ethical issues related to prescribing	<ul style="list-style-type: none"> <li>Legal and ethical issues related to prescribing</li> </ul>			4
			PHAR(II)205:IVSEM8.3	Describe fundamental principles of prescribing	<ul style="list-style-type: none"> <li>Principles of prescribing</li> </ul>			4
			PHAR(II)205:IVSEM8.4	Explain steps of prescribing		<ul style="list-style-type: none"> <li>Steps of prescribing</li> </ul>		6
			PHAR(II)205:IVSEM8.5	Describe prescribe competencies			<ul style="list-style-type: none"> <li>Prescribing competencies</li> </ul>	2



## Modified Tutorials (6 Hours)

Sr. No	Comp. no	TOPIC	Domain	T-L Method	Teaching Hrs
1.	PHAR(II)205:IVS EM1.4	Antihistamines	K,S	Tutorials	1 Hour
2.	PHAR(II)205:IVS EM2.2	Diuretics	K,S	Tutorials	1 Hour
3	PHAR(II)205:IVS EM3.1	Analgesics	K,S	Tutorials	1 Hour
4	PHAR(II)205:IVS EM3.4	Hypnoticsandsedative	K,S	Tutorials	1 Hour
5	PHAR(II)205:IVS EM6.6	Anticancerdrugs	K,S	Tutorials	1 Hour
6	PHAR(II)205:IVS EM7.1	Ayurveda	K,S	Tutorials	1 Hour

## TEACHING STRATEGY:

Total Hours: 60

Theory Hours: 60

## Theory

### Continuous Assessment: 10Marks

Sr. No	Assignments	Percentage of Attendance required	Allotted marks	Total Marks for attendance
1	Attendance	95-100%	2	2 marks
		90-94%	1.5	
		85-89%	1	
		80-84%	0.5	
		<80%	0	
		Number of assignments required	Marks	Total Marks allotted
2	Written Assignments(Drug )	1	1X10	10
3	Seminar/Microteaching/Individual presentation (Drug presentation)	1	1x12	12
4	Group work/Work/Report	1	1x6	06
5	<b>Mandatory Module :</b>	<b>1</b>	<b>1x10</b>	<b>10</b>
Total				40/4=10Marks

**Note:** If there is mandatory module in that semester, marks obtained by student out of 10 can be added to 30 totaling 40 marks

Total=40/4=10marks

## Formative Assessment

### 1. Sessional Examinations: Theory: I

Name of the Institute: SRMM College of Nursing

Name of Examination: B.Sc. Nursing

Semester IV/Sessional I: Pharmacology- I

PHAR (II)205:IV SEM:/Primary/2021-2025

	Must to Know (MK)	Desirable to know (DK)	Nice to know (NK)	Marks=30
Essay/Situation type (2) 1/2	(2) Level-I-1 Level-II-1			10Mx1=10M
Short(3) 2/3	(2) Level I-1 Level II-1	(1) Level I-1		5Mx2=10M
Very Short (4) 3/4	(2) Level I-1 Level II-1	(1) Level I-1	(1) Level-I-1	2Mx3=6M
MCQ (4) 4/4	(2) Level I-1 Level II-1	(1) Level I-1	(1) Level-1	1Mx4=4M
About 60:30:10 (MK:DK:NK) Level of Learning 80:20				<b>Total =30</b>

## 2. Sessional Examinations: Theory: II

Name of the Institute: SRMM College of Nursing

Name of Examination: B.Sc. Nursing

Semester IV/Sessional II: Pharmacology-I&II

PHAR(II)205:IVSEM:/Primary/2021-2025

	Must to Know (MK)	Desirable to know (DK)	Nice to know (NK)	Marks=38
ESSAY (2) 1/2	(2) Level-I-1 Level-II-1			10Mx1=10M
SHORT (4) 3/4	(2) Level I-1 Level II-1	(1) Level I-1	(1) Level I-1	5Mx3=15M
VERY SHORT(4) 3/4	(2) Level I-1 Level II-1	(1) Level I-1	(1) Level-I-1	2Mx3=6M
MCQ(7) 7/7	(4) Level I-3 Level II-1	(2) Level I-1 Level II-1	(1) Level-1	1Mx7=7M
About 60:30:10 (MK:DK:NK) Level of Learning 80:20				<b>Total =38</b>

Summative examination

**Name of the Institute: SRMM College of Nursing**  
**Name of Examination: B.Sc. Nursing**  
**Semester IV/University Exam : Pharmacology I &II**  
 PHAR(II)205:IVSEM:/Primary/2021-2025

	Must to Know (MK)	Desirable to know (DK)	Nice to know (NK)	Marks=38
ESSAY (2) 1/2	(2) Level-I-1 Level-II-1			10Mx1=10M
SHORT (4) 3/4	(2) Level I-1 Level II-1	(1) Level I-1	(1) Level I-1	5Mx3=15M
VERY SHORT(4) 3/4	(2) Level I-1 Level II-1	(1) Level I-1	(1) Level-I-1	2Mx3=6M
MCQ(7) 7/7	(4) Level I-3 Level II-1	(2) Level I-1 Level II-1	(1) Level-1	1Mx7=7M
About 60:30:10 (MK:DK:NK) Level of Learning 80:20				<b>Total =38</b>



#### **LIST OF RECOMMENDED BOOKS:**

- Dr. S.K. Srivastava, Dr. Rohan Srivastava: Pharmacology for B.Sc. Nursing APC publication, 2020
- Satoskar, BhandarkarAlnapure: Pharmacology and Pharmacotherapeutics. Popular Prakashan, Mumbai
- M. M. Das : Pharmacology, Books and Allied
- Linda, Skidmore Roth: Mosby's 2000 Nursing Drug Reference.
- Ramesh Karnegan: First Aid to Pharmacology for Undergraduates.
- K. D. Tripathi : Essentials of Medical Pharmacology
- Govani and Hayes ; Drugs and Nursing Implications
- Rodman and Smith: Clinical Pharmacology in Nursing.
- Richard A. Lehne ; Pharmacology for Nursing Care
- Lalit Mishra: Drug Today. Lorina Publications, New Delhi

