JHARKHAND Rai University
UGC RECOGNISED UNIVERSITY
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Lesson Plan & Tracking

Programe :D.Pharm	**Session : 2022-23**	**Year : 1st**	
Course: Pharmaceutical chemistry(Theory)			
Name of the Faculty:	**Commencement Date:01/09/2022**	**Date of Closure:**	

Lecture No.	Week	Unit	Topics to be Covered	Blended Mode			Date	Duration	Tracking of Lectures	Related Course Outcome	Signature of Faculty	Signature of HoD	Remarks (if any)
				ICT Tool/Platform / LMS	Resources	Activity							
1	1	Unit-I	Introduction to Pharmaceutical chemistry										
2			Scope & objectives										
3			Sources and types of errors: Accuracy, precision										
4	2	Unit-I	Significant figures										
5			Impurities in Pharmaceuticals: Source and effect of impurities in Pharmacopoeial substances										
6			Importance of limit test										
7	3	Unit-I	Principle and procedures of Limit tests for chlorides, sulphates										
8			Principle and procedures of Limit tests for iron, heavy metals and arsenic.										

9			Volumetric analysis: Fundamentals of volumetric analysis										
10	**4**	**Unit-I**	Acid-base titration										
11			Non-aqueous titration										
12			Precipitation titration										
13	**5**	**Unit-I**	Complexometric titration										
14			Redox titration										
15			Gravimetric analysis: Principle										
16	**6**	**Unit-I**	Gravimetric analysis: Method										
17			Pharmaceutical formulations, market preparations, storage conditions and uses of- Haematinics										
18			Pharmaceutical formulations, market preparations, storage conditions and uses of- Gastro-intestinal Agents: Antacids										
19			Pharmaceutical formulations, market preparations, storage conditions and uses of- Topical agents										

20	**7**	**Unit-I**	Pharmaceutical formulations, market preparations, storage conditions and uses of- Dental products										
21			Pharmaceutical formulations, market preparations, storage conditions and uses of- Medicinal gases										
22	**8**	**Unit-II**	Introduction to nomenclature of organic chemical systems										
23			Particular reference to heterocyclic compounds containing up to Three rings										
24			Drugs Acting on Central Nervous System										
25	**9**	**Unit-II**	Anaesthetics: Thiopental Sodium*, Ketamine Hydrochloride*										
26			Sedatives and Hypnotics: Diazepam*, Alprazolam*										
27			Phenobarbital*,Antipsychotics: Chlorpromazine Hydrochloride*										
28	**10**	**Unit-II**	Haloperidol*, Risperidone*, Sulpiride*										
29			Anticonvulsants: Phenytoin*, Carbamazepine*										
30			Valproic Acid*, Gabapentin										
31		**Unit-II**	Anti-Depressants: Amitriptyline Hydrochloride*,										

32	11	Unit-II	Imipramine Hydrochloride*, Fluoxetine*										
33		Unit-III	Drugs Acting on Autonomic Nervous System										
34	12	Unit-III	Sympathomimetic Agents: Direct Acting: Nor-Epinephrine*										
35			Dopamine*,Naphazoline*										
36			Indirect Acting Agents: Hydroxy Amphetamine										
37	13	Unit-III	Beta Adrenergic Blockers: Propranolol*, Atenolol*										
38			Cholinergic Drugs and Related Agents: Direct Acting Agents: Acetylcholine*										
39			Cholinesterase Inhibitors: Neostigmine*										
40	14	Unit-III	Cholinergic Blocking Agents: Atropine Sulphate*										
41			Synthetic Cholinergic Blocking Agents:Dicyclomine Hydrochloride*										
42			Drugs Acting on Cardiovascular System										
43	15	Unit-III	Anti-Arrhythmic Drugs-Phenytoin,Quinidine Sulphate Sodium*										
44			Anti-Hypertensive Agents: Propranolol*, Captopril*										

45			Methyldopate Hydrochloride										
46	**16**	**Unit-VI**	Antianginal Agents: Isosorbide Dinitrate										
47			Diuretics										
48			Diuretics-Frusemide*										
49	**17**	**Unit-VI**	Hypoglycemic Agents										
50			Insulin and Its Preparations										
51			Metformin*, Glibenclamide*										
52	**18**	**Unit-VI**	Analgesic And Anti-Inflammatory Agents: Morphine Analogues										
53			Nonsteroidal Anti-Inflammatory Agents (NSAIDs)										
54			Aspirin*,Ibuprofen*,Paracetamol*										
55	**19**	**Unit-VI**	Anti-Infective Agents										
56			Antifungal Agents-Ketoconazole*,Fluconazole*										
57			Urinary Tract Anti-Infective Agents-Ofloxacin*										

58			Para amino salicylic acid										
59	**20**	**Unit-VI**	Anti-Tubercular Agents: INH*,Pretomanid*										
60			Antiviral Agents:Acyclovir*										
61			Antimalarials:Chloroquine Phosphate*,Mefloquine*										
62	**21**	**Unit-VI**	Sulfonamides:Sulfacetamide*,Dapsone*										
63			Antibiotics										
64			Penicillin G										
65	**22**	**Unit-VI**	Amoxicillin*										
66			Tetracyclines: Doxycycline, Minocycline										
67			Macrolides: Erythromycin										
68	**23**	**Unit-VI**	Miscellaneous										
69			Chloramphenicol* Clindamycin										
70			Anti-Neoplastic Agents										

71	**24**	**Unit-VI**	Cyclophosphamide*										
72			Fluorouracil*& Cisplatin*.										
73	**25**		Revision										
74			Revision										
75			Revision										