JHARKHAND Rai University
UGC RECOGNISED UNIVERSITY
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Lesson plan & Tracking

Programe : B. Pharma	Session : 2022-2026	Year : FIRST YEAR	Sem: I

Course: PHARMACEUTICAL INOGANIC CHEMISTRY (Theory)

Name of the Faculty: SUBHSM ROY	Commencement Date:	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	WEEK 1		Introduction of Pharmaceutical Inorganic chmistry										
2			History of Pharmacopoeia										
3			Sources of and type of impurities										
4			Principle involved in the limit test for Chloride, Sulphate, Iron										
5			Principle involved in the limit test for Asenic, Lead, Heavy metals										
6			Principle involved in the limit test for Heavy metalsModified limit test for Chloride and Sulphate										

7	WEEK 2	**UNIT-I**	General methods of preparation, assay for the Sodium chloride, Calcium gluconate properties and medicinal uses of inorganic compounds belonging to the following classes										
8			General methods of preparation, assay for the Ammonium chloride, Sodium Bicarbonate properties and medicinal uses of inorganic compounds belonging to the following classes										
9	WEEK 3		General methods of preparation, assay for the Hydrogen peroxide, Chlorinated lime, Ammonium chloride properties and medicinal uses of inorganic compounds belonging to the following classes										
10			General methods of preparation, assay for the Copper sulphate, Ferrous sulphate,Sodium thiosulphate properties and medicinal uses of inorganic compounds belonging to the following classes										
11			Buffer equation and buffer capacity in general										
12			Buffes in pharmaceutical Systems										
13			Stability , buffered isotonic solution										
14			Measurment of tonicity, calculation and methods of adjusting isotonicity										

15	WEEK 4	**UNIT-II**	Function oh major physiological ions, electrolytes use in the replacement therapy: sodium chloride, potassium chloride										
16			Function oh major physiological ions, electrolytes use in the replacement therapy: Calcium gluconate and oral Rehydratioin solution										
17	WEEK 5		Physiological acid base balance										
18			Dentifrices, role of fluoride in the treatment of dental caries										
19			Desensitizing agents, calcium carbonate, sodium fluoride,										
20			Zinc eugenol cement										
21	WEEK 6	UNIT-III	Ammonium Chloride And Dil. Hcl										
22			Ideal properties of antacids, combination of antacids										
23			Sodium Bicarbonate, Aluminum hydroxide gel										
24			Magnesium hydroxide mixture										
25	WEEK 7		Magnesium sulphate, Sodium orthophosphate										
26			Kaolin , Bentonite										
27			Mechanism, classification of antimicrobials, Potassium permanganate										
28			Boric acid, Hydrogen Peroxide										

29	WEEK 8		Chlorinated lime										
30			Iodin and its prepatation										
31		UNIT-IV	Potassium iodide										
32			Ammonium Chloride										
33	WEEK 9		Copper sulphate										
34			Sodium potassium tartarate										
35			Ferrous sulphate, Frrrous Gluconate										
36			Sodium thiosulphate										
37	WEEK 10		Activated charcoal, Sodiumnitrite333										
38			Zinc Sulphate, Potash Alum										
39		UNIT-V	Radio activity										
40			Measurement of readioactivity										
41	WEEK 11		Propeties of α, β, γ rediations										
42			Half-life										
43			Radio isotope and study of radioisotope-Sodium Iodide I^{131}										
44			Radio isotope and study of radioisotope-Sodium Iodide I^{131}										
45			Storage condition, precsutions & pharmaceutical application of readioactivity substances										