

Estd.Under U.P. Govt. University Act 23 of 2010 & U/S 2(f) of the U.G.C. Act 1956. N.H.24, Delhi Hapur Road, Village & Post – Kastla, Kasmabad, P.O. Pilkhuwa – 245101, District Hapur (U.P.) India www.monad.edu.in.

Lesson Plan

Program- D.Pharm

Year - I

Course DPH-111 PHARMACEUTICS-I

S. No.	Day	Subject	L	T	P	Total
1	D Day					
2	D+1	Introduction of different dosage forms	1	0	0	1
3	D+2	different dosage forms classification with examples-their relative applications	1	0	0	1
4	D+3	Familiarization with new drug delivery systems	1	0	0	1
5	D+4	Introduction to Pharmacopoeias with special reference to the Indian Pharmacopoeia.	1	0	0	1
6	D+5	Tutorial (Problem solving session/ class test)	0	1	0	1
7	D+6	Metrology-Systems of weights and measures	1	0	0	1
8	D+7	Calculations including conversion from one to another system	1	0	0	1
9	D+8	Percentage calculations and adjustments	1	0	0	1
10	D+9	alligation method in calculations	1	0	0	1
11	D+10	Tutorial (Problem solving session/ class test)	0	1	0	1

		TOTAL	8	2	0	10
12	D+11	isotonic solutions.	1	0	0	1
13	D+12	Packing of Pharmaceuticals	1	0	0	1
14	D+13	Desirable features of a container	1	0	0	1
15	D+14	Study of glass and plastics as materials for containers	1	0	0	1
16	D+15	Tutorial (Problem solving session/ class test)	0	1	0	1
17	D+16	rubber as material for closures-their merits and demerits. Introduction to aerosol packaging	1	0	0	1
18	D+17	Size reduction: Objectives, and factors affecting size reduction, methods of size reduction	1	0	0	1
19	D+18	Study of Hammer mill, Ball mill, Fluid Energy, Mill and Disintegrator. Size separation—Size separation by sifting. Official Standard for powders	1	0	0	1
20	D+19	Sedimentation methods of size separation. Construction and working of cyclone separator.	1	0	0	1
21	D+20	Tutorial (Problem solving session/ class test)	0	1	0	1
		TOTAL	8	2	0	10
22	D+21	Mixing and Homogenization–Liquid mixing and powder mixing	1	0	0	
23	D+22	Mixing of semisolids, Study of Silverson Mixer– Homogenizer	1	0	0	1
24	D+23	Planetary Mixer; Agitated powder mixer; Triple Roller Mill	1	0	0	1
25	D+24	Propeller Mixer, Colloid Mill and Hand Homogenizer. Double cone mixer.	1	0	0	1
26	D+25	Tutorial (Problem solving session/ class test)	0	1	0	1
27	D+26	Clarification and Filtration –Theory of filtration, Filter media;	1	0	0	1

28	D+27	Filter aids and selection of filters	1	0	0	1
29	D+28	Study of the following filtration equipment	1	0	0	1
30	D+29	Filter Press, Sintered Filters	0	1	0	1
31	D+30	Tutorial (Problem solving session/ class test)	1	0	0	
		TOTAL	8	2	0	10
32	D+31	Filter Candles, Meta filter	1	0	0	1
33	D+32	Extraction and Galenicals	1	0	0	1
34	D+33	Study of percolation and maceration and their modification	1	0	0	1
35	D+34	continuous hot extraction—Applications in the preparation of tinctures and extracts	1	0	0	1
	D+35	Tutorial (Problem solving session/ class test)	0	1	0	1
36	D+36	Introduction to Ayurvedic dosage forms.	1	0	0	1
37	D+37	Heat processes Evaporation –Definition Factors affecting evaporation	1	0	0	1
38	D+38	Study of evaporating still and Evaporating Pan.	1	0	0	1
39	D+39	Distillation —Simple distillation and Fractional distillation	1	0	0	1
40	D+40	Tutorial (Problem solving session/ class test)	0	1	0	1
		TOTAL	8	2	0	10
41	D+41	Steam distillation and vacuum distillation	1	0	0	1
42	D+42	Study of vacuum still, preparation of Purified Water I.P	1	0	0	1
43	D+43	Introduction to drying processes	1	0	0	1
44	D+44	Study of Tray Dryers: Fluidized Bed Dryer	1	0	0	1
45	D+45	Tutorial (Problem solving session/ class test)	0	1	0	1
46	D+46	Vacuum Dryer and Freeze Dryer	1	0	0	1
47	D+47	water for injection I.P. Construction and working of the	1	0	0	1

		still used for the same				
48	D+48	Sterilization—Concept of sterilization	1	0	0	1
49	D+49	Sterilization its differences from disinfection Thermal resistance of micro– organisms	1	0	0	1
50	D+50	Tutorial (Problem solving session/ class test)	0	1	0	1
		TOTAL	8	2	0	10

51	D Day					
52	D+51	Detailed study of the following sterilization process,	1	0	0	1
53	D+52	Sterilization with moist heat	1	0	0	1
54	D+53	Sterilization by radiation	1	0	0	1
55	D+54	Sterilization by radiation	1	0	0	1
56	D+55	Tutorial (Problem solving session/ class test)	0	1	0	1
57	D+56	Sterilization by filtration	1	0	0	1
58	D+57	Gaseous sterilization.	1	0	0	1
59	D+58	Aseptic techniques: Application of sterilization processes	1	0	0	1
60	D+59	hospitals particularly with reference to surgical dressings and intravenous fluids	1	0	0	1
61	D+60	Tutorial (Problem solving session/ class test)	0	1	0	1
		TOTAL	8	2	0	10
62	D+61	Precautions for safe and effective handling of sterilization equipment.	1	0	0	1
63	D+62	Processing of Tablets	1	0	0	1
64	D+63	Tablets- Definition; Different types of compressed tablets and their properties	1	0	0	1

65	D+64	Processes involved in the production of tablets	1	0	0	1
66	D+65	Tutorial (Problem solving session/ class test)	0	1	0	1
67	D+66	Tablets excipients; Defects in tablets	1	0	0	1
68	D+67	Evaluation of Tablets; Physical Standards including Disintegration and Dissolution	1	0	0	1
69	D+68	Tablet coating–sugar coating; film coating,	1	0	0	1
70	D+69	enteric coating and microencapsulation	1	0	0	1
71	D+70	Tutorial (Problem solving session/ class test)	0	1	0	1
		TOTAL	8	2	0	10
72	D+71	Processing of Capsules–Hard and soft gelatin capsules	1	0	0	
73	D+72	Processing of Capsule filling of capsules	1	0	0	1
74	D+73	handling and storage of capsules	1	0	0	1
75	D+74	Special applications of capsules	1	0	0	1
76	D+75	Tutorial (Problem solving session/ class test)	0	1	0	1
77	D+76	Study of immunological products	1	0	0	1
78	D+77	Study of immunological products like sera vaccines,	1	0	0	1
79	D+78	Study of immunological products like sera vaccines, toxoids & their preparations.	1	0	0	1
80	D+79	reference to surgical dressings and intravenous fluids	0	1	0	1
81	D+80	Tutorial (Problem solving session/ class test)	1	0	0	
		TOTAL	8	2	0	10



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Lesoon Plan

Program- D.Pharm

Semester- I

Course DPH-111 PHARMACEUTICS-I

S. No.	Day	Subject	L	T	P	Total
1	D Day					
2	D+1	To Prepare and Submit 10 ml of Chloroform Water IP.	0	0	4	4
3	D+2	To Prepare and Submit 20 ml of Rose Water NF.	0	0	4	4
4	D+3	To Prepare and Submit 20 ml of Aq. Iodine Solution IP.	0	0	4	4
5	D+4	To Prepare and Submit 10 ml of Camphor Water IP.	0	0	4	
6	D+5	To Prepare and Submit 20 ml of Strong Ammonium Acetate Solution BP	0	0	4	4
7	D+6	To Prepare and Submit 20 ml of Alcoholic Iodine Solution BP.	0	0	4	4
8	D+7	To Prepare and Submit 20 ml of Aromatic Ammonia Spirit USP.	0	0	4	4
9	D+8	To Prepare and Submit 20 ml of Camphor Spirit USP.	0	0	4	4
10	D+9	To Prepare and Submit 10 gm of Salicylic acid Cream.	0	0	4	4
11	D+10	To Prepare and Submit 20 gm of Cold Cream.	0	0	4	4
			0	0	4	4
12	D+11	To Prepare and Submit 20 gm of Shampoo.	0	0	4	4

13	D+12	To Prepare and Submit 10 ml of compound NaCl Mouth	0	0	4	4
	D+13	wash. Formulation and Evaluation of PCM/ Aspirin Tablets by			4	
14	Dill	Granulation techniques.	0	0	•	4
15	D+14	To Prepare, submit and Evaluate 5 capsules of PCM.	0	0	4	4
16	D+15	To Prepare and Submit 10 ml of Zinc Sulphate Eye drops BP.	0	0	4	4
17	D+16	To Prepare and Submit 10 ml of Sodium Chloride Eye drops BP.	0	0	4	4
18	D+17	Sterilization of Prepared Eye drop of Zinc Sulphate Eye drops BP and Sodium Chloride Eye drops BP by Autoclaving Method.	0	0	4	4
19	D+18	To Prepare and Submit 20 ml of Liquorice Liquid Extract BP.	0	0	4	4
20	D+19	To Prepare and Submit 20 ml of Strong Ginger Tincture BP.	0	0	4	4
21	D+20	To Prepare and Submit 20 ml of Iodine Tincture USP.	0	0	4	4
22	D+21	Preparation and Sterilization of Nutrient Broth.	0	0	4	4
23	D+22	Preparation of Glassware and sterilization equipment for microbiological work by Autoclaving.	0	0	4	4
24	D+23	To cultivate the Micro-organism in Nutrient broth medium.	0	0	4	4
25	D+24	To Prepare and Submit 10 ml of Sodium Chloride Eye drops BP.	0	0	4	4
	D+25	Sterilization of Prepared Eye drop of Zinc Sulphate Eye		0	4	
26		drops BP and Sodium Chloride Eye drops BP by				4
		Autoclaving Method.	0			
			0	0	100	100



Program- D.Pharm

year- 1st year

Course DPH-112PHARMACEUTICAL CHEMISTRY-I

S. No.	Day	Subject	L	Т	P	Total
1	D Day	General discussion on the following inorganic compounds including important physical and chemical properties	1	0	0	1
2	D+1	medicinal and Pharmaceutical uses, storage conditions and chemical incompatibility	1	0	0	1
3	D+2	(A) Acids, bases and buffers Boric acid*, Hydrochloric acid,	1	0	0	1
4	D+3	strong ammonium hydroxide	1	0	0	1
5	D+4	Tutorial	0	1	0	1
6	D+5	Calcium hydroxide	1	0	0	1
7	D+6	Sodium hydroxide and official buffers	1	0	0	1
8	D+7	(B) Antioxidants –Hypo phosphorous acid, Sulphur dioxide	1	0	0	1
9	D+8	Sodium bisulphite, Sodium Meta bisulphite,	1	0	0	1
10	D+9	Sodium thiosulphate, Nitrogen and Sodium Nitrite	1	0	0	1
11	D+10	Tutorial	0	1	0	1
12	D+11	(C) Gastrointestinal agents—	1	0	0	1

		(i) Acidifying agents Dilute hydrochloric acid				
13	D+12	(ii)Antacids-Sodium bicarbonate, Aluminium hydroxide gel	1	0	0	1
14	D+13	Aluminium Phosphate	1	0	0	1
15	D+14	Calcium carbonate Magnesium carbonate	1	0	0	1
16	D+15	Tutorial	0	1	0	1
17	D+16	Magnesium trisilicate, Magnesium oxide	1	0	0	1
18	D+17	Combinations of antacid preparations	2	0	0	1
19	D+18	Protectives and Adsorbents –Bismuth subcarbonate and Kaolin.	1	0	0	1
20	D+19	Saline Cathartics –Sodium potassium tartrate	2	0	0	1
21	D+20	Protectives and Adsorbents Magnesium sulphate.	1	0	0	1
22	D+21	Tutorial	0	1	0	1
		Total	19	4	0	23
23	D+22	General discussion on the following inorganic compounds including important physical and chemical properties, medicinal and Pharmaceutical uses, storage conditions and chemical incompatibility	1	0	0	1
24	D+23	Topical Agents- i. Protectives-Talc, Zinc Oxide, Calamine,	1	0	0	1
25	D+24	i. Zinc stearate, Titanium dioxide, Silicone polymers	1	0	0	1
26	D+25	Tutorial	0	1	0	1
27	D+26	(ii) Antimicrobials and Astringents–Hydrogen peroxide*, Potassium permanganate,	1	0	0	1
28	D+27	Chlorinated lime	1	0	0	1
29	D+28	Iodine, Solutions of Iodine, Povidone-iodine	1	0	0	1
30	D+29	Boric acid, Borax. Silver nitrate, Mild silver protein,	1	0	0	1

31	D+30	Mercury, Yellow mercuric oxide, Ammoniated mercury	1	0	0	1
32	D+31	Tutorial	0	1	0	1
33	D+32	Sulphur and its compounds—Sublimed sulphurprecipitated sulphur, selenium sulphide	1	0	0	1
34	D+33	selenium sulphide	1	0	0	1
35	D+34	Astringents:-Alum	1	0	0	1
36	D+35	Zinc Sulphate	1	0	0	1
37	D+36	Tutorial	0	1	0	1
38	D+37	Dental Products–Sodium Fluride, Stannous Flouride, Calcium carbonate	1	0	0	1
39	D+38	Sodium metaphosphate, Dicalcium phosphate,	1	0	0	1
40	D+39	Strontium chloride, Zinc chloride	1	0	0	1
41	D+40	(F) Inhalants–Oxygen, Carbon dioxide, Nitrous oxide	1	0	0	1
42	D+41	(G) Respiratory stimulants-Ammonium Carbonate	1	0	0	1
43	D+42	Tutorial	0	1	0	1
44	D+43	(H) Expectorants and Emetics—Ammonium chloride, *Potassium iodide, Antimony potassium tartrate.	2	0	0	1
45	D+44	(I) Antidotes-Sodium nitrate	1	0	0	1
		Total	20	4		24
46	D+45	Major Intra and Extracellular electrolytes-	20	4		24
		(A) Electrolytes used for replacement therapy –Sodium chloride and its preparations	1	0	0	1
47	D+46	Potassium chloride and its preparations	1	0	0	1
48	D+47	Revision	1	0	0	1
49	D+48	Tutorial	0	1	0	1
50	D+49	(B) Physiological acid-base balance and electrolytes used- Sodium acetate,	1	0	0	1
51	D+50	Potassium acetate, Sodium bicarbonate injection,	1	0	0	1

52	D+51	Tutorial	0	1	0	1
53	D+52	Sodium citrate	1	0	0	1
54	D+53	Potassium citrate, Sodium lactate injection	1	0	0	1
55	D+54	Ammonium chloride and its injection.	1	0	0	1
56	D+55	(C) Combination of oral electrolyte powders and solutions cont	1	0	0	1
57	D+56	(C) Combination of oral electrolyte powders and solutions.	1	0	0	1
58	D+57	Tutorial	0	1	0	1
59	D+58	Class test	1	0	0	1
60	D+59	Inorganic Official compounds of Iron	1	0	0	1
61	D+60	Inorganic Official compounds of Calcium Ferrous Sulfate	1	0	0	1
62	D+61	Inorganic Official compounds of Calcium gluconate	1	0	0	1
63	D+62	Revision	2	0	0	1
64	D+63	Class test	1	0	0	1
65	D+64	Tutorial	0	1	0	1
		Total	18	4		22
66	D+65	Radio pharmaceuticals and Contrast media-Radio activity-Alpha,	1	0	0	1
67	D+66	Radio pharmaceuticals and Contrast media- Beta and Gamma Radiations,	1	0	0	1
68	D+67	Biological effects of radiations	1	0	0	1
69	D+68	Measurement of radio activity, G. M. Counter Radio isotopes their uses, storage and precautions with special reference to the official preparations cont	1	0	0	1
70	D+69	Tutorial	0	1	0	1

71	D+70	Measurement of radio activity, G. M. Counter Radio	1	0	0	1
		isotopes their uses, storage and precautions with special				
		reference to the official preparations				
72	D+71	Radio opaque Contrast media–Barium sulfate.	1	0	0	1
73	D+72	Revision		0	0	1
	31,2	The Vision	1			1
74	D+73	Quality control of Drugs and Pharmaceuticals-Importance	1	0	0	1
		of quality control, significant errors				
75	D+74	Tutorial		1		1
76	D+75	methods used for quality control, sources of impurities in	1	0	0	1
		Pharmaceuticals				
77	D+76	Limit tests for Arsenic, chloride	1	0	0	1
78	D+77	sulphate, Iron and Heavy metals.	1	0	0	1
79	D+78	Class test	1	0	0	1
80	D+79	Tutorial	0	1	0	1
81	D+80	Limit tests for mercury.	1	0	0	1
82	D+81	significant errors in quality control of drugs	1	0	0	1
83	D+82	Revision	2	0	0	1
84	D+83	Identification tests for cations as per Indian	1	0	0	1
		Pharmacopoeia				
85	D+84	Identification tests for anions as per Indian	1	0	0	1
		Pharmacopoeia				
86	D+85	Tutorial		1		1
		Total	18	4		22
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Monad University

Program- D.Pharm

year- 1st year

Course DPH-112P PHARMACEUTICAL CHEMISTRY-I

S. No.	Day	Subject	L	T	P	Total
1	D Day					
2	D+1	General Introduction of Glassware.	0	0	4	4
3	D+2	To perform the assay of Boric acid.	0	0	4	4
4	D+3	To perform assay of Hydrogen peroxide.	0	0	4	4
5	D+4	To perform assay of potassium iodide.	0	0	4	4
6	D+5	To perform the standardization of 0.1 N Sulphuric Acid.	0	0	4	4
7	D+6	To perform the standardization of 0.1 N Sodium Hydroxide.	0	0	4	4
8	D+7	To perform assay of sodium bicarbonate.	0	0	4	4
9	D+8	To perform assay of calcium gluconate.	0	0	4	4
10	D+9	To perform assay of Magnesium sulphate.	0	0	4	4
11	D+10	To perform assay of NaCl.	0	0	4	4
		TOTAL				40
12	D+11	To perform assay of potassium chloride.	0	0	4	4
13	D+12	To perform assay of ferrous sulphate.	0	0	4	4
14	D+13	To perform the limit test of Chloride.	0	0	4	4
15	D+14	To perform the limit test of Sulphate.	0	0	4	4
16	D+15	To perform the limit test of Iron.	0	0	4	4

17	D+16	To perform the limit test of Heavy Metals.	0	0	4	4
18	D+17	To perform the limit test of Arsenic.	0	0	4	4
19	D+18	To perform the Salt analysis of Unknown sample.	0	0	4	4
20	D+19	To perform the Salt analysis of Unknown sample.	0	0	4	4
21	D+20	To perform the Salt analysis of Unknown sample	0	0	4	4
22	D+21	To perform the Salt analysis of Unknown sample	0	0	4	4
		Total				44



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Lesson Plan

Program- D.Pharm

year- 1st year

Course DPH-113PHARMACOGNOSY

S. No.	Day	Subject	L	Т	P	Total
1	D Day					
2	D+1	Introduction of Pharmacognosy, scope of Pharmacognosy.	1	0	0	1
3	D+2	indigenous system of medicine.	1	0	0	1
4	D+3	Various systems of classification of drugs of natural origin.	1	0	0	1
5	D+4	Adulteration and drug evaluation.	1	0	0	1
6	D+5	significance of Pharmacopoeial standards	1	0	0	1
7	D+6	Tutorial	0	1	0	1
8	D+7	Brief outline of occurrence	1	0		1
9	D+8	distribution, and outline of isolation	1	0	0	1
10	D+9	identification tests, therapeutic effects and pharmaceutical applications of alkaloids,	1	0	0	1
11	D+10	Tutorial	0	1	0	1
12	D+11	terpenoids, glycosides, volatile oils, tannins and resins.	1	0	0	1
13	D+12	Occurrence, distribution, organoleptic evaluation, chemical constituents including tests wherever applicable and therapeutic efficacy of following	1	0	0	1

		categories of drugs.				
		(a) Laxatives: Aloes, Rhuburb, Castor oil, Ispaghula,				
		Senna.				
14	D+13	Tutorial	0	1	0	1
15	D+14	(b) Cardiotonics-Digitalis, Arjuna.	1	0	0	1
16	D+15	(c) Carminatives & G.I. regulators –Umbelliferous fruits,	1	0	0	1
17	D+16	Coriander, Fennel, Ajowan, Cardamom Ginger	1	0	0	1
18	D+17	Black pepper, Asafoetida, Nutmeg, Cinnamon, Clove.	1	0	0	1
19	D+18	(d) Astringents–Catechu.	1	0	0	1
20	D+19	Tutorial	0	1	0	1
	D+20	(e) Drugs acting on nervous system-		0	0	1
21		Hyoscyamus, Belladonna, .	1	0		1
22	D+21	Aconite, Ashwagandha	1	0	0	1
23	D+22	Ephedra, Opium	1	0	0	0
24	D+23	Cannabis, Nux vomica	1	0	0	0
		TOTAL	19	4		23
25	D+24	(f) Antihypertensives-Rauwolfia.	1	0	0	0
26	D+25	(g) Antitussives-Vasaka, Tolu balsam, Tulsi.	1	0	0	1
27	D+26	(h) Antirheumatics-Guggul, Colchicum.	1	0	0	1
28	D+27	(i) Antitumour-Vinca.	1	0	0	1
29	D+28	Tutorial	0	1	0	1
30	D+29	(j) Antileprotics-Chaulmoogra Oil.	1	0	0	1
31	D+30	Occurrence, distribution, organoleptic evaluation,	1	0	0	1

		chemical constituents including tests wherever applicable and therapeutic efficacy of following categories of drugs. (k) Antidiabetics -Pterocarpus, Gymnema, Sylvestro.				
32	D+31	(1) Diuretics–Gokhru, Punarrnava.	1	0	0	1
33	D+32	(m) Antidysentrics-Ipecacuanha.	1	0	0	1
34	D+33	Tutorial	0	1	0	1
35	D+34	(n) Antiseptics and disinfectants Benzoin, Myrrh. Nim, curcuma.	1	0	0	1
36	D+35	(o) Antimalarials–Cinchona.	1	0	0	1
37	D+36	(p) Oxytocics-Ergot.	1	0	0	1
38	D+37	(q) Vitamines-Shark liver Oil and Amla.	1	0	0	1
39	D+38	Tutorial	0	1	0	1
40	D+39	(r) Enzymes-Papaya, Diastase, Yeast.	1	0	0	1
41	D+40	(s) Perfumes and flavouring agents –Peppermint Oil, Lemon Oil, Orange Oil	1	0	0	1
42	D+41	Lemon grass Oil, Sandalwood.	1	0	0	1
43	D+42	(t) Pharmaceutical aids-Honey, Arachis Oil,	1	0	0	1
44	D+43	Starch, Kaolin, Pectin, Olive oil,	1	0	0	1
45	D+44	Lanolin, Beeswax, Acacia,	1	0	0	1
46	D+45	Tutorial	0	1	0	1
		TOTAL	18	4		22
47	D+46	Tragacanth, Sodium alginate	1	0	0	1
48	D+47	Agar, Guar gum, Gelatin.	1	0	0	1

49	D+48	(u) Miscellaneous-Liquorice, Garlic,	1	0	0	1
50	D+49	Picrorhiza, Dioscorea,	1	0	0	1
51	D+50	Linseed, Shatavari,	1	0	0	1
52	D+50	Shankhapusphi, Pyrethrum, Tobacco.	1	0	0	1
53	D+51	Tutorial	0	1	0	1
54	D+52	Collection and preparation of crude drug for the market as				
		exemplified by Ergot, opium, Rauwolfia, Digitalis, Senna.	1	0	0	1
55	D+53	Study of source, preparation and identification of fibres	1	0	0	1
56	D+53	used in sutures and surgical dressings—cotton, silk,	1	0	0	1
57	D+54	wool and regenerated fibre.	1	0	0	1
58	D+55	Tutorial	0	1	0	1
59	D+56	Gross anatomical studies of Senna, Datura,	1	0	0	1
60	D+57	Cinnamon, Cinchona,	1	0	0	1
61	D+58	Fennel, Clove, Ginger, Nux vomica	1	0	0	1
62	D+59	Ipecacuanha.	1	0	0	1

Signature of faculty



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Lesson Plan

Program- D.Pharm

year- 1st year

Course DPH-113 PHARMACOGNOSY

Session	- 2020-21					
S. No.	Day	Subject	L	Т	P	Total
1	D Day	To study the parts of compound microscope.	0	0	0	0
2	D+1	To study the morphology of Rauwolfia and Vinca.	0	0	4	4
3	D+2	To study the morphology of Coriander and Fennel.	0	0	4	4
4	D+3	To study the morphorlogy of Rhubarb and Isphagula.	0	0	4	4
5	D+4	To study the morphology of Ashwagandha and Nuxvomica.	0	0	4	4
6	D+5	To study the morphology of Gokhru and Black pepper.	0	0	4	4
7	D+6	To study the morphology of Aloe and Castor oil.	0	0	4	4
8	D+7	To study the morphology of Clove and Ginger.	0	0	4	4
9	D+8	To perform the identification tests for alkaloids.	0	0	4	4
10	D+9	To study the morphology of Tulsi and Neem.	0	0	4	4
11	D+10	To study the morphology of Guggul and Amla.	0	0	4	4
		TOTAL				40
12	D+11	To study the transverse section of Clove.	0	0	4	4
13	D+12	To study the microscopy of Datura leaf.	0	0	4	4
14	D+13	To study the transverse section of Fennel.	0	0	4	4

15	D+14	To study the transverse section of Senna leaf.	0	0	4	4
16	D+15	To study the transverse section of Nux-vomica seed.	0	0	4	4
17	D+16	To study the transverse section of Ipecacuanha.	0	0	4	4
18	D+17	To study the morphorlogy of Senna and Belladona.	0	0	4	4
19	D+18	To study the morphorlogy of Ipecac and Punarnava.	0	0	4	4
20	D+19	To study the morphorlogy of Shatavari and Shankhpushpi.	0	0	4	4
21	D+20	To study the morphorlogy of Digitalis and Arjuna.	0	0	4	4
22	D+21	To study the morphorlogy of Datura and Liquorice.	0	0	4	4
23	D+22	To perform the identification tests for starch, tragacanth and agar.	0	0	4	4
24	D+23	To study the various types of calcium oxalate crystals in powdered drug.i.e. Liquorice& Rhubarb.	0	0	4	4
25	D+24	To study the morphological and microscopical (powder) characters of Liquorice along with its chemical test.	0	0	4	4
26	D+25	To study the morphological and microscopical (powder) characters of Rhubarb along with its chemical test.	0	0	4	4
27	D+26	To determine the swelling index of Isabgol seeds.	0	0	4	4
28	D+27	To determine the ash value, total ash for given plant sample-Cinchona.	0	0	4	4
29	D+28	To determine the LOD (Loss on Drying) for given powder sample i.e. Coriander and Liquorice.	0	0	4	4
		TOTAL				72

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Lesson plan

Program- DIPLOMA IN PHARMACY

Course- BIOCHEMISTRY AND CLINICAL PATHOLOGY

Course Code- DPH-114T

S. No.	Day	Subject	L	T	P	Total
1	D Day					
2	D+1	Introduction about biochemistry	1	0	0	1
3	D+2	Chemistry of proteins and qualitative test for proteins	1	0	0	1
4	D+3	Role and functions of proteins and its deficiency diseases	1	0	0	1
5	D+4	Role and functions of proteins and its deficiency diseases	1	0	0	1
6	D+5	Problem Solving Session/ class test	0	1	0	1
7	D+6	Chemistry of polypeptides and amino acids	1	0	0	1
8	D+7	Classification of amino acids and polypeptides	1	0	0	1
9	D+8	Qualitative tests of amino acids	1	0	0	1
10	D+9	Deficiency Diseases of amino acids and polypeptides	1	0	0	1
11	D+10	Problem Solving Session/ class test	0	1	0	1
12	D+11	Chemistry of carbohydrates	1	0	0	1
13	D+12	Role of carbohydrates	1	0	0	1

14	D+13	Qualitative tests for carbohydrates	1	0	0	1
15	D+14	Diseases related to carbohydrates metabolism	1	0	0	1
16	D+15	Problem Solving Session/ class test	0	1	0	1
17	D+16	Classification of carbohydrates	1	0	0	1
18	D+17	Diseases related to deficiency of amino acids	1	0	0	1
19	D+18	Chemistry of amino acids	1	0	0	1
20	D+19	Chemistry of polypeptides	1	0	0	1
21	D+20	Qualitatively test for carbohydrates	1	0	0	1
22	D+21	Problem Solving Session/class test	0	1	0	1
		TOTAL	17	04	0	21
23	D+22	Chemistry of lipids	1	0	0	1
24	D+23	Role of lipids	1	0	0	1
25	D+24	Classification of lipids	1	0	0	1
26	D+25	Problem Solving Session/ class test	0	1	0	1
27	D+26	Diseases related to lipid metabolism	1	0	0	1
28	D+27	Qualitative test for lipids	1	0	0	1
29	D+28	Qualitative test for lipids	1	0	0	1
30	D+29	Important and function of lipids	1	0	0	1
31	D+30	Problem Solving Session/ class test	0	1	0	1

S. No.	Day	Subject	L	T	P	Total
32	D Day					
33	D+31	chemistry of Vitamins	1	0	0	1
34	D+32	Problem Solving Session/ class test	0	1	0	1
35	D+33	Importance and function of Vitamins	1	0	0	1
36	D+34	Important types of vitamin body required balance diet	1	0	0	1
37	D+35	Problem Solving Session/ class test	0	1	0	1
38	D+36	Chemistry of Coenzymes	1	0	0	1
39	D+37	Importance of Coenzymes	1	0	0	1
40	D+38	Functions of Coenzymes	1	0	0	1
41	D+39	Role of Vitamins	1	0	0	1
42	D+40	Problem Solving Session/ class test	0	1	0	1
43	D+41	Role of minerals in life processes	1	0	0	1
44	D+42	Classification of minerals	1	0	0	1
45	D+43	Functions of minerals and its uses	1	0	0	1
46	D+44	Importance of water and its resources	1	0	0	1
47	D+45	Problem Solving Session/ class test	0	1	0	1
48	D+46	Functions of Water	1	0	0	1

49	D+47	Role of Water in life processes	1	0	0	1
50	D+48	Problem Solving Session/ class test	0	1	0	1
		TOTAL	20	07	0	27

S. No.	Day	Subject	L	T	P	Total
51	D Day					
52	D+49	Enzymes and its types	1	0	0	1
53	D+50	Functions of enzymes	1	0	0	1
54	D+51	Factor affecting enzymatic action	1	0	0	1
55	D+52	Therapeutic and pharmaceutical importance of enzymes	1	0	0	1
56	D+53	Problem Solving Session/ class test	0	1	0	1
57	D+54	Concept of normal and abnormal metabolism of proteins	1	0	0	1
58	D+55	Concept of Metabolism of Carbohydrates	1	0	0	1
59	D+56	Concept of Metabolism of Lipids	1	0	0	1
60	D+57	Importance of balance diet	1	0	0	1
61	D+58	Problem Solving Session/ class test	0	1	0	1
		TOTAL	08	2	0	10
62	D+59	Introduction, pathology of blood	1	0	0	1
63	D+60	Introduction and pathology of urine	1	0	0	1
64	D+61	Lymphocytes their role in health and disease	1	0	0	1
65	D+62	Platelets their role in health and disease	1	0	0	1
66	D+63	Problem Solving Session/ class test	0	1	0	1
67	D+64	Function of erythrocytes	1	0	0	1
68	D+65	Erythrocytes abnormal cells and their significance	1	0	0	1
69	D+66	Concept of abnormal constituents of urine and their significance in diseases.	1	0	0	1
70	D+67	Erythrocytes importance and function	1	0	0	1
71	D+68	Problem Solving Session/ class test	0	1	0	1
		TOTAL	08	2	0	10

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Lesson plan

Program- DIPLOMA OF PHARMACY

D.Pharma-Ist Year

Course- BIOCHEMISTRY AND CLINICAL PATHOLOGY

Course Code-- DPH-114

S. No.	Day	Subject	L	T	P	Total
1	D Day					
2	D+1	To determine the identification test for carbohydrate (Glucose).	0	0	4	4
3	D+2	To determine the identification test for carbohydrate (fructose).	0	0	4	4
4	D+3	To determine the identification test for protein.	0	0	4	4
5	D+4	To determine the identification test for lipid (Paraffin oil)	0	0	4	4
6	D+5	To determine the identification test for lipid (peppermint oil).	0	0	4	4
7	D+6	To determine the identification test for carbohydrates in unknown solution.	0	0	4	4
8	D+7	To perform physical test for urine.	0	0	4	4
9	D+8	To identify the normal inorganic constituents in the urine.	0	0	4	4
10	D+9	To identify the normal organic constituents in the urine.	0	0	4	4
11	D+10	To perform the qualitative test for abnormal constituents in the urine.	0	0	4	4
12	D+11	To analyze the sample of saliva.	0	0	4	4
13	D+12	To calculate the Rf value to given amino acid by the thin layer chromatography.	0	0	4	4
	D : 12	To manfarms the identification test for the siven sounds	I			

16	D+15	To perform the chemical and physical test for cholesterol (stearic acid).	0	0	4	4
17	D+ 17	To perform the identification test for the given lipid sample (Bee Wax).	0	0	4	4
18	D+18	To perform the study of estimation of glucose in the blood.	0	0	4	4
19	D+19	To perform the study of determination of creatinine in the blood.	0	0	4	4
20	D+20	To perform the identification test for carbohydrates (Dextrose).	0	0	4	4
21	D+21	To perform the practice in injecting the drug by I.V and I.M.	0	0	4	4
		TOTAL	0	0	84	84

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Lesson Plan

Program: - D.Pharm

Year :- 1st year

Course:- HUMAN ANATOMY AND PHYSIOLOGY

Course code (DPH-115)

Session: 2020-21

S. No.	Day	Subject	L	T	P	Total
1	D Day					
2	D+1	Scope of Anatomy and Physiology.	1	0	0	1
3	D+2	Definition of various terms used in anatomy.	1	0	0	1
4	D+3	Structure and functions of cell.	1	0	0	1
5	D+4	Cell Membrane	1	0	0	1
6	D+5	Cell organelles	1	0	0	1
7	D+6	Tutorial	0	1	0	1
8	D+7	Structure of cytoplasm and nucleus.	1	0		1
9	D+8	Structure and function of mitochondria and golgi complex.	1	0	0	1
10	D+9	Structure and functions of lysosomes and ribosomes	1	0	0	1
11	D+10	Tutorial	0	1	0	1

12	D+11	Difference between prokaryotic and eukaryotic cell	1	0	0	1
13	D+12	Elementary tissues of the body	1	0	0	1
14	D+13	Tutorial	0	1	0	1
15	D+14	Epithelial tissue	1	0	0	1
16	D+15	Muscular tissue,	1	0	0	1
17	D+16	Connective tissue,	1	0	0	1
18	D+17	Nervous tissue	1	0	0	1
19	D+18	Structure and function of skeleton.	1	0	0	1
20	D+19	Tutorial	0	1	0	1
21	D+20	Classification of joints	1	0	0	1
22	D+21	Functions of joints	1	0	0	1
23	D+22	Joint disorders	1	0	0	0
		TOTAL	18	4		22
24	D+23	Description about blood	1	0	0	0
25	D+24	Composition of blood	1	0	0	1
26	D+25	RBC, WBC and Platelets	1	0	0	1
27	D+26	Functions of blood elements.	1	0	0	1
28	D+27	Tutorial	0	1	0	1
29	D+28	Blood group.	1	0	0	1
30	D+29	Coagulation of blood	1	0	0	1
31	D+30	Brief information regarding disorders of blood	1	0	0	1
32	D+31	Name of lymph glands	1	0	0	1
33	D+32	Tutorial	0	1	0	1
34	D+33	Functions of lymph glands	1	0	0	1
35	D+34	Structure of various parts of heart	1	0	0	1
36	D+35	Functions of various parts of heart	1	0	0	1
37	D+36	Arterial system of heart with reference to name of main arteries	1	0	0	1
		urones				

38	D+37	Tutorial	0	1	0	1
39	D+38	Venous system of heart with reference to name of main veins	1	0	0	1
40	D+39	Blood pressure and its recording	1	0	0	1
41	D+40	Brief information about cardiovascular disorders	1	0	0	1
42	D+41	Cardiovascular disorders	1	0	0	1
43	D+42	Various parts of respiratory system and their functions	1	0	0	1
44	D+43	Structure and functions of respiratory tract	1	0	0	1
45	D+44	Tutorial	0	1	0	1
46	D+45	Class test	1	0	0	1
47	D+46	Physiology of respiration	1	0	0	1
		TOTAL	20	4		24
48	D+47	Urinary system	1	0	0	1
49	D+48	Various parts of urinary system and their functions	1	0	0	1
50	D+49	Structure and function of kidney	1	0	0	1
51	D+50	Physiology of urine formation	1	0	0	1
52	D+51	Tutorial	0	1	0	1
53	D+52	Pathophysiology of renal diseases	1	0	0	1
54	D+53	Pathophysiology of edema	1	0	0	1
55	D+54	Class test	1	0	0	1
56	D+55	Structure of skeletal muscle	1	0	0	1
57	D+56	Tutorial	0	1	0	1
58	D+57	Physiology of muscle contraction	1	0	0	1
59	D+58	Names and position of various skeletal muscles	1	0	0	1
60	D+59	Class test	1	0	0	1
61	D+60	Attachment and functions of various skeletal muscles	1	0	0	1
62	D+61	Tutorial	0	1	0	1

63	D+62	Physiology of neuromuscular junction	1	0	0	1
64	D+63	Various parts of central nervous system	1	0	0	1
65	D+64	Brain and its parts	1	0	0	1
66	D+65	Class test	1	0	0	1
67	D+66	Functions and reflex action	1	0	0	1
68	D+67	Anatomy and physiology of autonomic nervous system	1	0	0	1
69	D+68	Tutorial	0	1	0	1
		Total	18	4		22
70	D+69	Elementary knowledge of structure and functions of the organs of taste and smell	1	0	0	1
71	D+70	Structure and functions of the organs of ear, eye and skin continue	1	0	0	1
72	D+71	Structure and functions of the organs of ear, eye and skin	1	0	0	1
73	D+72	Physiology of pain	1	0	0	1

74	D+73	Tutorial	0	1	0	1
75	D+74	Digestive system	1	0	0	1
76	D+75	Names of various parts of digestive system and their functions	1	0	0	1
77	D+76	Class test	1	0	0	1
78	D+77	Structure and functions of liver	1	0	0	1
79	D+78	Tutorial	0	1	0	1
80	D+79	Physiology of digestion	1	0	0	1
81	D+80	And physiology of absorption	1	0	0	1
82	D+81	Class test	1	0	0	1
83	D+82	Endocrine glands and hormones. location of glands	1	0	0	1
84	D+83	Location and functions of pituitary gland	1	0	0	1

85	D+84	Tutorial	0	1	0	1
86	D+85	Class test	1	0	0	1
87	D+86	Location and function of thyroid gland and its hormones	1	0	0	1
88	D+87	Location and functions of adrenal gland	1	0	0	1
89	D+88	Location and functions of Pancreas and its hormones	1	0	0	1
90	D+89	Tutorial	0	1	0	1
91	D+90	Reproductive system - Anatomy and Physiology of Reproductive system continue	1	0	0	1
92	D+91	Anatomy and physiology of reproductive system	1	0	0	1
93	D+92	Tutorial	0	1	0	1
		Total	19	5		24

Signature of faculty



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Lesson plan

Program- D.Pharm

year- 1st year

Course code DPH-115-P

Course name HUMAN ANATOMY AND PHYSIOLOGY

S. No.	Day	Subject	L	T	P	Total
1	D Day	To study the human skeleton system with the help of charts and models.	0	0	0	0
2	D+1	To study the compound microscope.	0	0	4	4
3	D+2	To find the bleeding time of our own sample.	0	0	4	4
4	D+3	To find the clotting time of our own sample.	0	0	4	4
5	D+4	To determine the blood pressure of a person.	0	0	4	4
6	D+5	To estimate the own body temperature.	0	0	4	4
7	D+6	To record the pulse rate.	0	0	4	4
8	D+7	To determine the amount of haemoglobin in human blood sample.	0	0	4	4
9	D+8	To count the RBCs in our own blood sample by haemocytometer.	0	0	4	4
10	D+9	To count the WBCs in our own blood sample.	0	0	4	4
11	D+10	To study the blood glucose level with the help of glucometer.	0	0	4	4

		TOTAL				44
13	D+12	To study the respiratory system.	0	0	4	4
14	D+13	To study the Nervous system.	0	0	4	4
15	D+14	To study the digestive system.	0	0	4	4
16	D+15	To study the cardiovascular system.	0	0	4	4
17	D+16	To study the urinary system.	0	0	4	4
18	D+17	To study the special sense organs (Ear & Eye).	0	0	4	4
19	D+18	To study smooth muscle with the help of microscope .	0	0	4	4
20	D+19	To study cardiac muscle with the help of microscope.	0	0	4	4
21	D+20	To study the nervous and muscular tissue with the help of microscope.	0	0	4	4
22	D+21	To study the Epithelial and connective tissue with the help of microscope.	0	0	4	4
23	D+22	To study the histology of taste buds and salivary glands.	0	0	4	4
24	D+23	To study the histology of endocrine glands.	0	0	4	4
		TOTAL				48

Signature faculty



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Lesson Plan

Program-DIPLOMA IN PHARMACY

Year - Istyr

Course Code-DPH116T

Course-HEALTH EDUCATION & COMMUNITY PHARMACY

S. No.	Day	Subject	L	T	Total
1	D+1	Definition of physical health, mental health, social health, spiritual health		0	1
2	D+2	Determinants of health, indicators of health		0	1
3	D+3	Concept of disease	1	0	1
4	D+4	Discussion Session/ Revision/Class Test	0	1	1
5	D+5	Natural history of diseases	1	0	1
6	D+6	The disease agents	1	0	1
7	D+7	Concept of prevention of diseases	1	0	1
8	D+8	Discussion Session/ Revision/Class Test	0	1	1
9	D+9	Classification of foods requirements	1	0	1
10	D+10	Disease induced due to deficiency of Proteins		0	1
11	D+11	Disease induced due to deficiency of Vitamins		0	1
12	D+12	Discussion Session/ Revision/Class Test	0	1	1
13	D+13	Disease induced due to deficiency of minerals	1	0	1
14	D+14	Treatment and prevention	1	0	1
15	D+15	Treatment and prevention	1	0	1
16		TOTAL CLASS		3	15
17	D+16	Discussion Session/ Revision/Class Test		1	1
18	D+17	Demography cycle, fertility, family planning	1	0	1
19	D+18	Contraceptive methods	1	0	1
20	D+19	Behavioral methods	1	0	1
21	D+20	Discussion Session/ Revision/Class Test	0	1	1
22	D+21	Natural family planning method	1	0	1
23	D+22	Hormonal contraceptives	1	0	1
24	D+23	Emergency treatment in shock, snake-bite, burns poisoning, heart disease	1	0	1

	D 24	D' G G G G G G G G G G G G G G G G G G G	0	1	1
25	D+24	Discussion Session/ Revision/Class Test		1	1
26	D+25	Fractures and resuscitation methods		0	1
27	D+26	Sources of water supply, water pollution, purification of water, health and air		0	1
28	D+27	Noise light-solid waste disposal and control -medical entomology		0	1
29	D+28	Discussion Session/ Revision/Class Test	0	1	1
30	D+29	Arthropod borne diseases and their control	1	0	1
31	D+ 30	Rodents, animals and diseases	1	0	1
32	D+31	Chemical method, mechanical methods	1	0	1
33	D+32	Elements of minor surgery and dressings	1	0	1
34	D+33	Discussion Session/ Revision/Class Test	0	1	1
35	D+34	Population problem of India	1	0	1
36	D+35	Discussion Session/ Revision/Class Test	0	1	1
37		Total Class	14	6	20
38	D+36	Fundamental principles of microbiology classification of microbes		0	1
39	D+37	isolation, staining techniques of organisms of common diseases		0	1
40	D+38	Communicable diseases, Causative agents	1	0	1
41	D+39	Discussion Session/ Revision/Class Test	0	1	1
42	D+40	Modes of transmission and prevention	1	0	1
43	D+41	Respiratory infections—Chicken pox, measles	1	0	1
44	D+42	Influenza, diphtheria, whooping cough, Tuberculosis		0	1
45	D+43	Discussion Session/ Revision/Class Test	0	1	1
46	D+44	Arthropod borne infections –plague, Malaria, Filariasis		0	1
47	D+45	Surface infections –Rabies, Trachoma, Tetanus, and Leprosy		0	1
48	D+46	Sexually transmitted diseases –Syphilis. Gonorrhea. AIDS		0	1
49	D+47	Discussion Session/ Revision/Class Test		1	1
50	D+48	Typhoid, Food poisoning, Hookworm infection.		0	1
51		Total Class		3	13
52	D+49	Non-communicable diseases –Causative agents, prevention, care and control	1	0	1
53	D+50	Cancer, Diabetes, Blindness		0	1
54	D+51	Cardiovascular diseases	1	0	1
55	D+52	Discussion Session/ Revision/Class Test	0	1	1

56	D+53	Epidemiology– Its scope, methods, uses, and dynamics of disease transmission	1	0	1
57	D+54	Immunity and immunization		0	1
58	D+55	Immunological products and their dose schedule		0	1
59	D+56	Discussion Session/ Revision/Class Test		1	1
60	D+57	Principles of disease control and prevention, hospital acquired infection, prevention and control		0	1
61	D+58	Disinfection, types of disinfection, disinfection procedures, for faeces, urine, sputum	1	0	1
62	D+59	Room linen, dead –bodies, instruments	1	0	1
63	D+60	Discussion Session/ Revision/Class Test	0	1	1
64		Total Class	9	3	12

Signature Faculty



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Lesson Plan

Program- D.Pharm

year- 2nd year

Course DPH-211 PHARMACEUTICS-II

S. No.	- 2020-21 Day	Subject	L	T	P	Total
1	D Day	1. Dispensing Pharmacy:	1	0	0	1
1		(i) Prescriptions –Reading and understanding of prescription;				
2	D+1	Latin terms commonly used (Detailed study is not necessary),	1	0	0	1
3	D+2	Modern methods of prescribing,	1	0	0	1
4	D+3	adoption of metric system.	1	0	0	1
5	D+4	Calculations involved in dispensing.	1	0	0	1
6	D+5	(ii) Incompatibilities in Prescriptions –Study of various types of incompatibilities –physical, chemical	1	0	0	1
7	D+6	Tutorial	0	1	0	1
8	D+7	and therapeutic.	1	0	0	1
9	D+8	(iii) Posology—Dose and Dosage of drugs, Factors influencing dose,	1	0	0	1
10	D+9	Calculations of doses on the basis of age sex and surface area. Veterinary doses.	1	0	0	1
11	D+10	2. Dispensed Medications: (Note: A detailed study of the following dispensed	1	0	0	1

		medication is necessary. Methods of preparation with theoretical and practical aspects, use of appropriate				
		containers and closures. Special labelling requirements and storage conditions should be high –lighted).				
12	D+11	Tutorial	0	1	0	1
	D : 12		0	1	0	1
13	D+12	(i) Powders –Types of powders –Advantages and disadvantages of powders, Granules, Cachets	1	0	0	1
14	D+13	and Tablet triturates.	1	0	0	1
15	D+14	Preparation of different types of powders encountered in prescriptions.	1	0	0	1
16	D+15	Weighing methods, possible errors in weighing,	1	0	0	1
17	D+16	minimum weighable amounts and weighing of material below the minimum weighable amount,	1	0	0	1
18	D+17	Tutorial	0	1	0	1
19	D+18	geometric dilution and proper usage and care of dispensing balance.	1	0	0	1
20	D+19	(ii) Liquid Oral Dosage Forms:(a). Monophasic-Theoretical aspects including commonly used vehicles, essential adjuvant like stabilizers,	1	0	0	1
21	D+20	, colourants and flavours, with examples.	1	0	0	1
22	D+21	Tutorial	0	1	0	0
23	D+22	Review of the following monophasic liquids with details of formulation and practical methods. • Liquids for internal administration	1	0	0	1
24	D+23	Liquids for external administration or used on mucus membranes.	1	0	0	1
25	D+24	Mixtures and concentratesGargles	1	0	0	1
26	D+25	 Syrups Mouth washes Throat –paints Douches 	1	0	0	1
27	D+27	Tutorial	0	1	0	1
	i			1	1	

29	D+29	Ear Drops Nasal drops & Sprays Liniments, Lotions.	1	0	0	1
30	D+30	(b) Biphasic Liquid Dosage Forms:(i) Suspension (elementary study)- Suspensions containing diffusible solids	1	0	0	1
31	D+31	and liquids and their preparations.	1	0	0	1
32	D+32	Tutorial	0	1	0	1
33	D+33	Study of the adjuvants used like thickening agents, wetting agents,	1	0	0	1
34	D+34	their necessity and quantity to be incorporated.	1	0	0	1
35	D+35	Suspensions of precipitate forming liquids like, tinctures, their preparations and stability.	1	0	0	1
36	D+36	Suspensions produced by chemical reaction	1	0	0	1
37	D+37	Tutorial	0	1	0	1
38	D+38	An introduction to flocculated, non-flocculated suspension system.	1	0	0	1
39	D+39	(b) Biphasic Liquid Dosage Forms:(ii) Emulsions –Types of emulsions, identification of emulsion system,	1	0	0	1
40	D+40	formulation of emulsions, selection of emulsifying agents.	1	0	0	1
41	D+41	Instabilities in emulsions. Preservation of emulsions.	1	0	0	1
42	D+42	Tutorial	0	1	0	1
43	D+43	(iii) Semi –Solid Dosage Forms:	1	0	0	1
44	D+44	(a) Ointments–Types of ointments, classification and selection of dermatological vehicles.	1	0	0	1
45	D+45	Preparation and stability of ointments by the following processes: (i) Trituration (ii) Fusion	1	0	0	1
46	D+46	(iii) Chemical reaction (iv) Emulsification.	1	0	0	1
47	D+47	Total	38	8		46
48	D+48	(b) Pastes Difference between ointments and pastes, bases of pastes.	1	0	0	1
49	D+49	Preparation of pastes and their preservation.	1	0	0	1

	D+50	(c) Jellies –An introduction to the different types of jellies				
50		(*) 6	1	0	0	1
51	D+51	and their preparation.	1	0	0	1
52	D+52	Tutorial	0	1	0	1
53	D+53	(d) An elementary study of poultice.	1	0	0	1
54	D+54	(e) Suppositories and pessaries –Their relative merits and demerits,	1	0	0	1
55	D+55	types of suppositories,	1	0	0	1
56	D+56	Tutorial	0	1	0	1
57	D+57	suppository bases, classification, properties,	1	0	0	1
58	D+58	Preparation and packing of suppositories.	1	0	0	1
59	D+59	Use of suppositories for drug absorption	1	0	0	1
60	D+60	Tutorial	0	1	0	1
61	D+61	(iv)Dental and Cosmetic Preparations: Introduction to	1	0	0	1
62	D+62	Dentrifices, Facial cosmetics,	1	0	0	1
63	D+63	Deodorants, Antiperspirants, Shampoos,	1	0	0	1
64	D+64	Hair dressing and Hair removers.	1	0	0	1
65	D+65	(v) Sterile Dosage Forms:	1	0	0	1
66	D+66	Tutorial	0	1	0	1
67	D+67	(a) Parenteral dosage forms—Definitions	1	0	0	1
68	D+68	, General requirements for parenteral dosage forms.	1	0	0	1
69	D+69	Types of parenteral formulations,	1	0	0	1
70	D+70	vehicles, adjuvants, processing,	1	0	0	1
71	D+71	personnel, facilities and Quality control.	1	0	0	1
72	D+72	Tutorial	0	1	0	1
73	D+73	Preparation of Intravenous fluids and admixtures –	1	0	0	1
74	D+74	Total parenteral nutrition, Dialysis fluids.	1	0	0	1
	1				0	1

	D+75	(b) Sterility testing, particulate matter monitoring -				
75		Faulty seal packaging.				
			1	0	0	1
76	D+76	(c) Ophthalmic Products –Study of essential	1	0	0	1
		characteristics of different ophthalmic preparations.				
		Total				
			24	5		29



Lesson Plan

Program- D.Pharm

year- 2nd year

Course DPH-211 P PHARMACEUTICS-II

S. No.	Day	Subject	L	T	P	Total
1	D Day					
2	D+1	To prepare & submit 20 ml of Simple Syrup.	0	0	4	4
3	D+2	To prepare 20 gm of Zinc Oxide and Starch Dusting powder.	0	0	4	4
4	D+3	To prepare and pack 20 gm of Talc dusting powder.	0	0	4	4
5	D+4	To prepare and pack 20 gm of Kaolin Powder.	0	0	4	4
6	D+5	To prepare & pack 20 ml of Pottasium Permagnate gargles.	0	0	4	4
7	D+6	To prepare & submit 20ml Mouth Wash.	0	0	4	4
8	D+7	To prepare & submit 20ml of Magnesium Sulphate Oral Suspension.	0	0	4	4
9	D+8	To prepare & submit 20ml of Calamine Lotion.	0	0	4	4
10	D+9	To prepare & submit 20ml of Milk of Magnesia suspension.	0	0	4	4
11	D+10	To prepare & submit 20ml of Calamine lotion.	0	0	4	4
		Total				40
12	D+11	To prepare & pack 20gm of Tooth Powder.	0	0	4	4
13	D+12	To prepare & pack 20gm Clear Liquid Shampoo.	0	0	4	4
14	D+13	To prepare & pack 20gm of After Shaving Lotion.	0	0	4	4

15	D+14	To prepare & pack 20ml of Ferrous Sulphate Syrup USP.	0	0	4	4
16	D+15	To prepare & pack 20gm Zinc Oxide Ointment.	0	0	4	4
17	D+16	To prepare & submit 10ml Chloramphenicol Ear Drop.	0	0	4	4
18	D+17	To prepare & submit 10 ml of Elixir as non-aqueous preparation.	0	0	4	4
19	D+18	To prepare & submit 10ml Ephedrine Nasal Drops.	0	0	4	4
20	D+19	To prepare & submit 10ml Turpentine Liniment.	0	0	4	4
21	D+20	To prepare & submit 20ml Methyl Salicylate Liniment B.P.	0	0	4	4
		Total				40
22	D+21	To prepare & submit 20gm of Sodium Alginate Beads.	0	0	4	4
23	D+22	To prepare & submit Zinc Sulphate Eye Drop.	0	0	4	4
24	D+23	To prepare & submit 20gm Toothpaste.	0	0	4	4
25	D+24	To prepare & submit 20gm clear liquid Shampoo.	0	0	4	4
26	D+25	To prepare & submit 20gm of Glycerin Suppositories.	0	0	4	4
27	D+26	To prepare & submit 30 gm insufflations.	0	0	4	4
28	D+27	To demonstrate physical incompatibility (immiscibility) & its method of correction.	0	0	4	4
29	D+28	To prepare & submit 20gm of Glycero gelatin Jelly.	0	0	4	4
30	D+29	To prepare & submit 20gm Mixture.	0	0	4	4
31	D+30	To demonstrate chemical incompatibility (immiscibility) & its method of correction.	0	0	4	4
		Total				40



Monad university

Program- D.Pharma

year- 2nd year

Course code DPH-212

Course name PHARMACEUTICAL CHEMISTRY-II

S. No.	Day	Subject	L	T	P	Total
1	D Day					
2	D+1	Introduction to the nomenclature of organic chemical systems with particular reference	1	0	0	1
3	D+2	heterocyclic system containing up to 3 rings continue	1	0	0	1
4	D+3	heterocyclic system containing up to 3 rings	1	0	0	1
5	D+4	Antiseptics and Disinfectants -Proflavine, * Benzalkoniumchloride,	1	0	0	1
6	D+5	Cetrimide, Chlorocresol	1	0	0	1
7	D+6	Tutorial	0	1	0	1
8	D+7	Chloroxylene	1	0	0	1
9	D+8	Formaldehyde solution,	1	0	0	1
10	D+9	Liquified	1	0	0	1
11	D+10	phenol	1	0	0	1
12	D+11	Nitrofurantoin	1	0	0	1
13	D+12	Tutorial	0	1	0	0
14	D+13	Sulfonamides-Sulfadiazine,	1	0	0	1
15	D+14	Sulfaguanidine*,	1	0	0	1
16	D+15	Phthalysulfathiazole,	1	0	0	1
17	D+16	Succinylsulfathiazole	1	0	0	1

18	D+17	Class test	1	0	0	1
	D+18	Tutorial	0	1	0	1
19						
20	D+19	Sulfadimethoxine,	1	0	0	1
21	D+20	Sulfamethoxypridazine,	1	0	0	1
22	D+21	co-trimoxazole, Sulfacetamide	1	0	0	
23	D+22	Tutorial	0	1	0	1
24	D+23	Antileprotic Drugs –Clofazimine,	1	0	0	1
25	D+24	Thiambutosine, Dapsone*, Solapsone	1	0	0	1
26	D+25	Anti-tubercular Drugs –Isoniazid*, PAS	1	0	0	1
27	D+26	Streptomycin, Rifampicin, Ethambutol*,	1	0	0	1
28	D+27	Tutorial	0	1	0	1
29	D+28	Thiacetazone, Ethionamide,	1	0	0	1
30	D+29	Cycloserine, Pyrazinamide	1	0	0	1
		Total	25	5		30
31	D+30	Antiamoebic and Anthelmintic Drugs- Emetine, Metronidazole	1	0	0	1
32	D+31	Halogenated hydroxyquinolines,	1	0	0	1
33	D+32	diloxanidefuroate, Paramomycin,	1	0	0	1
34	D+33	Piperazine*, Mebendazole	1	0	0	1
35	D+34	Tutorial	0	1	0	1
36	D+35	Antibiotics —Benzyl Penicillin*, Phenoxy methyl Penicillin*,	1	0	0	1
37	D+36	Benzathine Penicillin Ampicillin	1	0	0	1
38	D+37	Tutorial	0	1	0	1
39	D+38	Cloxacillin, Carbenicillin, Gentamicin,	1	0	0	1
40	D+39	Neomycin, Erythromycin, Tetracycline, Cephalexin, Cephaloridine,	1	0	0	1
41	D+40	Cephalothin, Griseofulvin, Chloramphenicol.	1	0	0	1
	1	Antifungal agents – Undecylenic acid,	1	0	0	1
42	D+41	Antifungal agents Office yieline acid,				
42	D+41 D+42	Tutorial	0	1	0	1

45	D+44	Amphotericin, Hamycin	1	0	0	1
46	D+45	Antimalarial Drugs-Chloroquine*,	1	0	0	1
47	D+46	Amodiaquine, Primaquine,	1	0	0	1
			1			1
48	D+47	Tutorial	0	1	0	1
49	D+48	Proguanil, Pyrimethamine*,	1	0	0	1
50	D+49	Quinine, Trimethoprim	1	0	0	1
51	D+50	Tranquilizers –Chlorpromazine*, Prochlorperazine,	1	0	0	1
52	D+51	TrifluoPerazine, Thiothixene, Haloperidol	1	0	0	1
53	D+52	Triperidol, Oxypertine, Chlordiazepoxide,	1	0	0	1
54	D+53	Diazepam*, Lorazepam, Meprobamate	1	0	0	1
55	D+54	Tutorial	0	1	0	1
56	D+55	Hypnotics—Phenobarbitone*, Butobarbitone, Cyclobarbitone, Nitrazepam, Glutethimide*, Methyprylone, Paraldehyde, Triclofos sodium.	1	0	0	1
57	D+56	General Anaesthetics –Halothane*, Cyclopropane*, Diethyl ether*, Methohexital sodium, Thiopental sodium, Trichloroethyelene.	1	0	0	1
58	D+57	Antidepressant Drugs—Amitriptyline, Nortryptyline, Imipramine*, Phenelzine, Tranylcypromine.	1	0	0	1
59	D+58	Analeptics –Theophylline, Caffeine*, Coramine*, Dextroamphetamine. Adrenergic Drugs –Adrenaline*, Noradrenaline, Isoprenaline*, Phenylephrine Salbutamol, Terbutaline, Ephedrine *, Pseudoephedrine.	1	0	0	1
		Total	25	5		30
60	D+59	Adrenergic Antagoinst -Tolazoline, Propranolol*, Practolol	1	0	0	1
61	D+60	Cholinergic Drugs -Neostigmine*, Pyridostigmine, Pralidoxime, Pilocarpine, Physostigmine*	1	0	0	1
62	D+61	Cholinergic Antagonists –Atropine*, Hysocine,	1	0	0	1
		Homatropine,				

64	D+63	Tutorial	0	1	0	1
65	D+64	Diuretic Drugs –Furosemide*, Chlorothiazide,	1	0	0	1
		Hydrochlorothaizide*,				
66	D+65	Benzthiazide, Urea*, Mannitol *, Ethacrynic Acid.	1	0	0	1
67	D+66	Tutorial	0	1	0	1
68	D+67	Cardiovascular Drugs –Ethyl nitrite*, Glyceryltrinitrate,	1	0	0	1
69	D+68	Alpha methyl dopa, Guanethidine,	1	0	0	1
70	D+69	Clofibrate, Quinidine	1	0	0	1
71	D+70	Tutorial	0	1	0	1
72	D+71	Hypoglycemic Agents – Insulin, Chlorpropamide*, Tolbutamide,	1	0	0	1
	<u> </u>	1				
73	D+72	Glibenclamide, Phenformin *, Metformin.	1	0		1
74	D+73	Coagulants and Anti –Coagulants –Heparin, Thrombin, Menadione	1	0	0	1
75	D+74	Bishydroxycoumarin, Warfarin Sodium.	1	0	0	1
76	D+75	Local Anesthetics – Lignocaine*,	1	0	0	1
77	D+76	Tutorial	0	1	0	1
78	D+77	Procaine*,	1	0	0	1
79	D+78	Benzocaine	1	0	0	1
80	D+79	Histamine and Anti-histaminic Agents-Histamine cont	1	0	0	1
81	D+80	Histamine and Anti-histaminic Agents-Histamine,	1	0	0	1
82	D+81	Diphenhydramine*,	1	0	0	1
83	D+82	Promethazine,	1	0	0	1
84	D+83	Tutorial	0	1	0	1
85	D+84	Analgesics and Anti-pyretics—Morphine, Pethidine*, Codeine, Methadone	1	0	0	1
86	D+85	Aspirin*, Paracetamol*, Analgin,	1	0	0	1
87	D+86	Dextropropoxyphene, Pentazocine	1	0	0	1
88	D+87	Cyproheptadine, Mepyramine,	1	0	0	1

90 D+89 Non-steroidal anti-inflammatory Agents – 1 Indomethacin*, phenylbutazone*, 91 D+90 Oxyphenbutazone, Ibuprofen, 92 D+91 Thyroxine and Antithyroids –Thyroxine*, 1 93 D+92 Methimazole, Methylthiouracil, Propylthiouracil 94 D+93 Tutorial 95 D+94 Diagnostic Agents-Iopanoic Acid, Propyliodone, 1	5 0 0 0 1	0 0 0	1 1 1
Indomethacin*, phenylbutazone*, 91 D+90 Oxyphenbutazone, Ibuprofen, 92 D+91 Thyroxine and Antithyroids –Thyroxine*, 1 93 D+92 Methimazole, Methylthiouracil, Propylthiouracil 94 D+93 Tutorial 95 D+94 Diagnostic Agents-Iopanoic Acid, Propyliodone, 1	0 0 0 1	0 0	1 1 1
91 D+90 Oxyphenbutazone, Ibuprofen, 1 92 D+91 Thyroxine and Antithyroids –Thyroxine*, 1 93 D+92 Methimazole, Methylthiouracil, Propylthiouracil 1 94 D+93 Tutorial 0 95 D+94 Diagnostic Agents-Iopanoic Acid, Propyliodone, 1	0 0 1	0	1
92 D+91 Thyroxine and Antithyroids –Thyroxine*, 1 93 D+92 Methimazole, Methylthiouracil, Propylthiouracil 1 94 D+93 Tutorial 0 95 D+94 Diagnostic Agents-Iopanoic Acid, Propyliodone, 1	0 0 1	0	1
93 D+92 Methimazole, Methylthiouracil, Propylthiouracil 1 94 D+93 Tutorial 0 95 D+94 Diagnostic Agents-Iopanoic Acid, Propyliodone, 1	0	0	1
94 D+93 Tutorial 0 95 D+94 Diagnostic Agents-Iopanoic Acid, Propyliodone, 1	1		
95 D+94 Diagnostic Agents-Iopanoic Acid, Propyliodone, 1		0	
	0		1
96 D+95 Sulfobromonhthalein Sodium indigotindisulfonate 1	U	0	1
30 2 135 Sanos en oprima de la margo investo.	0	0	1
97 D+96 Indigo Carmine,Evans blue, Congo Red, Fluorescein 1 Sodium	0	0	1
98 D+97 Tutorial	1	0	1
99 D+98 Anticonvulsants, cardiac glycosides, 1	0	0	1
100 D+99 Antihypertensives, Antiarrhythmic 1	0	0	1
101 D+100 Vitamins 1	0	0	1
102 D+101 Class test 1	0	0	1
103 D+102 Tutorial 0	1	0	1
		I	l
104 D+103 Steroidal Drugs –Betamethazone, 1	0	0	1
105 D+104 Cortisone, Hydrocortisone,	0	0	1
106 D+105 prednisolone, 1	0	0	1
107 D+106 Anti- Neoplastic Drugs –Actinomycins,	0	0	1
108 D+107 Tutorial 0	1	0	1
109 D+108 Azathioprine, Busulphan,	0	0	1
110 D+109 Chlorambucil, Cisplatin 1	0	0	1
111 D+110 Cyclophosphamide 1	0	0	1
112 D+111 Tutorial 0	1	0	1

Daunorubicin hydrochloride,

113

D+112

114	D+113	Fluorouracil, Mercaptopurine	1	0	0	1
115	D+114	Methotrexate, Mytomycin.	1	0	0	1
116	D+115	Class test	1	0	0	1
117	D+116	Progesterone,	1	0	0	1
118	D+117	Tutorial	0	1	0	1
119	D+118	Testosterone,	1	0	0	1
120	D+119	Oestradiol,Nandrolone.	1	0	0	1
		Total	22	6		28



Monad university

Program- D.Pharm

year- 2nd year

Course DPH-212P

Course name PHARMACEUTICAL CHEMISTRY-II

S. No.	Day	Subject	L	T	P	Total
1	D Day					
2	D+1	To identify the functional groups and elements in a given sample.	0	0	4	4
3	D+2	To identify the functional groups and elements in a given sample	0	0	4	4
4	D+3	To identify the functional groups and elements in a given sample	0	0	4	4
5	D+4	To perform the preliminary examination of unknown compound	0	0	4	4
6	D+5	To determine the melting point of unknown compound.	0	0	4	4
7	D+6	To determine the boiling point of unknown compound.	0	0	4	4
8	D+7	To determine the Solubility of an unknown compound.	0	0	4	4
9	D+8	To prepare and submit Aspirin & calculate it's percent yield.	0	0	4	4
10	D+9	To perform the Pharmacopoeialstandardisation of Aspirin.	0	0	4	4
11	D+10	To prepare and submit 7 Hydoxyl 4-Methyl Coumarin and report its Percent yield and Melting point range.	0	0	4	4
		TOTAL				40
12	D+11	To Prepare and synthesize Benzoyl Peroxide and to calculate it'spercentyield.	0	0	4	4

13	D+12	To perform Pharmacopoeial Standardization and analysis		0	4	4
		of Benzoyl peroxide.	0			
14	D+13	To prepare and submit Paracetamol and report its		0	4	4
		percent yield.	0			
15	D+14	To perform the Pharmacopoeialstandardisation of		0	4	4
		Paracetamol.	0			
16	D+15	To prepare and submit Methyl Salicylate and to calculate		0	4	4
16		it's percent yield.	0			
18	D+16	To perform the Pharmacopoeialstandardisation of		0	4	4
17		Methyl Salicylate.	0			
10	D+17	To perform the Pharmacopoeialstandardisation of		0	4	4
18		Ciprofloxacin.	0	J		
10	D+18	To prepare and submit Phenacetin& calculate it's percent		0	4	
19		yield.	0			4
20	D+19	To prepare and submit benzocaine & calculate		0	4	
20		it'spercent yield.	0			4
		Total				36



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Lesson Plan

Program:- D.Pharm

Year :- 2nd year

Course:- PHARMACOLOGY AND TOXICOLOGY

Course code (DPH-213)

S. No.	Day	Subject	L	T	P	Total
1	D Day					
2	D+1	Introduction of Pharmacology, scope of Pharmacology.	1	0	0	1
3	D+2	Routes of administration of drugs, their advantages and disadvantages.	1	0	0	1
4	D+3	and their advantages and disadvantages.	1	0	0	1
5	D+4	Various processes of absorption of drugs and the factors affecting them	1	0	0	1
6	D+5	Metabolism	1	0	0	1
7	D+6	Tutorial	0	1	0	1
8	D+7	Distribution of drugs.	1	0		1
9	D+8	And excretion of drugs.	1	0	0	1
10	D+9	General mechanism of drugs action and the factors which modify drug action. Pharmacological classification of drugs.	1	0	0	1

		Tutorial	0	1	0	1
12	D+11	(i) Drugs acting on the Central Nervous System:(a) General anaesthetics, adjunctions to anesthesia, intravenous anesthetics continue	1	0	0	1
13	D+12	(i) Drugs acting on the Central Nervous System:(a) General anaesthetics, adjunction to anesthesia, intravenous anesthetics.	1	0	0	1
14	D+13	Tutorial	0	1	0	1
15	D+14	b) Analgesic antipyretics	1	0	0	1
16	D+15	and non-steroidal anti -inflammatory drugs,	1	0	0	1
17	D+16	Narcotic analgesics,	1	0	0	1
18	D+17	Anti-rheumatic	1	0	0	1
19	D+18	antigout remedies,	1	0	0	1
20	D+19	Tutorial	0	1	0	1
21	D+20	(c)Centrally acting muscle relaxants	1	0	0	1
22	D+21	anti-parkinsonism agents	1	0	0	1
23	D+22	Sedatives and Hypnotics,	1	0	0	0
24	D+23	Psychopharmacological agents, anti convulsants, analeptics.	1	0	0	0
		TOTAL	19	4		23
25	D+24	Pharmacological classification of drugs. The discussion of drugs should emphasize the following aspect: (ii) Local anaesthetics continue	1	0	0	0
26	D+25	Pharmacological classification of drugs. The discussion of drugs should emphasize the following aspect: (ii) Local anesthetics.	1	0	0	1
27	D+26	(iii) Drug acting on autonomic nervous system. (a) Cholinergic drug, Anticholinergic drugs,	1	0	0	1
28	D+27	Anti-cholinesterase drugs continue	1	0	0	1
29	D+28	Tutorial	0	1	0	1
30	D+29	Anti-cholinesterase drugs.	1	0	0	1
31	D+30	(b) Adrenergic drugs	1	0	0	1
32	D+31	adrenergic receptor blockers	1	0	0	1
33	D+32	(c) Neurons	1	0	0	1

34 35 I	D+33 D+34	Tutorial	0	1	0	1
	D+34				Ü	1
36 I		Neurons blockers	1	0	0	1
	D+35	ganglion blockers	1	0	0	1
37 I	D+36	(d) Neuromuscular blockers	1	0	0	1
38 I	D+37	Drugs used in myasthenia gravis.	1	0	0	1
39 I	D+38	Tutorial	0	1	0	1
40 I	D+39	Drugs acting on eye, mydriatics, drugs used in glaucoma.	1	0	0	1
I	D+40	Drugs acting on respiratory system				
41		-Respiratory stimulants, Bronchodilators,	1	0	0	1
		Nasal decongestants,				
		Expectorants and Antitussive agents overview				
42 I	D+41	Drugs acting on respiratory system –Respiratory stimulants,	1	0	0	1
43 I	D+42	Bronchodilators	1	0	0	1
44 I	D+43	Nasal decongestants, Expectorants and Antitussive agents.	1	0	0	1
45 I	D+44	Antacids, Physiological role of histamine and serotonin, Histamine and Antihistamines, Prostaglandins.	1	0	0	1
46 I	D+45	Tutorial	0	1	0	1
		TOTAL	18	4		22
47 I	D+46	Cardio Vascular drugs, Cardio tonics, Antiarrhythmic agents, Antianginal agents,	1	0	0	1
48 I	D+47	Antihypertensive agents	1	0	0	1
49 I	D+48	Peripheral Vasodilators	1	0	0	1
50 I	D+49	drugs used in atherosclerosis	1	0	0	1
51 I	D+50	Tutorial	0	1	0	1
52 I	D+51	Drugs acting on the blood	1	0	0	1
53 I	D+52	and blood forming organs	1	0	0	1
54 I	D+53	Haematinics	1	0	0	1
55 I	D+54	Class test	1	0	0	1
56 I	D+55	Tutorial	0	1	0	1
57 I	D+56	Coagulants and anti-Coagulants, Haemostatics, Blood	1	0	0	1

		substitutes and plasma expanders				
58	D+57	Drugs affecting renal function-Diuretics	1	0	0	1
59	D+58	Antidiuretics	1	0	0	1
60	D+59	Hormones and hormone antagonists –hypoglycemic agents,	1	0	0	1
61	D+60	Tutorial	0	1	0	1
62	D+61	Antithyroid drugs,	1	0	0	1
63	D+62	sex hormones and oral contraceptives, corticosteroids	1	0	0	1
64	D+63	oral contraceptives, corticosteroids	1	0	0	1
65	D+64	Drugs acting on digestive system- Carminatives, digestants Bitters, Antacids	1	0	0	1
66	D+65	Tutorial	0	1	0	1
67	D+66	drugs used in Peptic ulcer	1	0	0	1
68	D+67	purgatives, and laxatives	1	0	0	1
69	D+68	Antidiarrheal, Emetics	1	0	0	1
70	D+69	Tutorial	0	1	0	1
		Total	20	5		25
71	D+70	Chemotherapy of microbial disease: Urinary antiseptics,	1	0	0	1
72	D+71	Sulphonamides,	1	0	0	1
73	D+72	Penicillins,	1	0	0	1
74	D+73	Streptomycin Tetracylines	1	0	0	1

75	D+74	antibiotics, Antitubercular agents	1	0	0	1
76	D+75	Tutorial	0	1	0	1
77	D+76	Antifungal agents,	1	0	0	1
78	D+77	antiviral drugs,	1	0	0	1
79	D+78	antileprotic drugs	1	0	0	1
80	D+79	Tutorial	0	1	0	1

81	D+80	Chemotherapy of protozoal	1	0	0	1
82	D+81	Anthelmintic drugs continue	1	0	0	1
83	D+82	Anthelmintic drugs	1	0	0	1
84	D+83	Chemotherapy of cancer continue	1	0	0	1
85	D+84	Chemotherapy of cancer	1	0	0	1
86	D+85	Tutorial	0	1	0	1
87	D+86	Class test	1	0	0	1
88	D+87	Disinfectants	1	0	0	1
89	D+88	Antiseptics continue	1	0	0	1
90	D+89	antiseptics.	1	0	0	1
91	D+90	Anti-spasmodics	1	0	0	1
92	D+91	Antiemetics	1	0	0	1
93	D+92	Tutorial	0	1	0	1
		Total	18	4		22



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Program- D.Pharm

year- 2nd year

Course DPH-213-P

Course name PHARMACOLOGY AND TOXICOLOGY

S. No.	Day	Subject	L	T	P	Total
1	D Day	To study about common Lab animals.	0	0	0	0
2	D+1	To prepare physiological salt solutions	0	0	4	4
3	D+2	To study the various instruments & apparatus used in the pharmacology laboratory.	0	0	4	4
4	D+3	To study the anticonvulsant activity by using by electro- convulsometer in rats.	0	0	4	4
5	D+4	To study muscle relaxant activity of Diazepam by using Rota rod apparatus.	0	0	4	4
6	D+5	To study the effect of Local anaesthetic on Rabbit cornea.	0	0	4	4
7	D+6	To study various anaesthetic agents used in Laboratory animal.	0	0	4	4
8	D+7	To study the effect of pentobarbital sodium on righting reflex (hypnosis) in mice.	0	0	4	4
9	D+8	To study the effect of K ⁺ , Ca ⁺⁺ ach. & adrenaline on frog's heart.	0	0	4	4
10	D+9	To study the biological standardization (bio assay) Methods.	0	0	4	4
11	D+10	To obtain a graded dose response curve of histamine &	0	0	4	4

		determine the concentration of the same in a solution (of unknown concentration) using matching bioassay.				
		TOTAL				40
12	D+11	To study Student Organ Bath.	0	0	4	4
13	D+12	To take normal DRC and to find out ceiling effect of acetylcholine.	0	0	4	4
14	D+13	To study the anticonvulsant property of diazepam against pentylenetetrazol induced colonic convulsion in mice.	0	0	4	4
15	D+14	To study the drug profile of chloramphenicol.	0	0	4	4
16	D+15	To study the drug profile of Sulphonamide drug.	0	0	4	4
17	D+16	To study the different types of routes of administration of the drugs.	0	0	4	4
18	D+17	To record the DRC of atropine using isolated chicken ileum preparation.	0	0	4	4
19	D+18	To study the CNS depressant property of diazepam on locomotor activity of mice using actophotometer.	0	0	4	4
		TOTAL				32



Lesson Plan

Course - DIPLOMA IN PHARMACY

Semester- IIndYear

Subject Name - PHARMACEUTICAL JURISPRUDENCE

Subject Code-DPH-214
Session- 2020-21

S. No.	Day	Subject	L	T	Total
1	D+1	Origin and nature of Pharmaceutical legislation in India	1	0	1
2	D+2	its scope and objectives	1	0	1
3	D+3	Evolution of the "Concept of Pharmacy" as an integral part of the Health Care System	1	0	1
4	D+4	Discussion Session/ Revision/Class Test	0	1	1
5	D+5	Evolution of the "Concept of Pharmacy" as an integral part of the Health Care System	1	0	1
6	D+6	Principles and significance of Professional Ethics	1	0	1
7	D+7	Critical study of the code of Pharmaceutical Ethics drafted by Pharmacy Council of India.	1	0	1
8	D+8	Discussion Session/ Revision/Class Test	0	1	1
9	D+9	Critical study of the code of Pharmaceutical Ethics drafted by Pharmacy Council of India.	1	0	1
10	D+10	Pharmacy Act, 1948 –The General study of the Pharmacy Act with special reference to Education Regulations	1	0	1
11	D+11	Pharmacy Act, 1948 –The General study of the Pharmacy Act with special reference to Education Regulations	1	0	1
12	D+12	Discussion Session/ Revision/Class Test	0	1	1
13	D+13	working of State and Central Councils	1	0	1
14	D+14	constitution of these councils and functions	1	0	1
15	D+15	Registration procedures under the Act.	1	0	1
16		TOTAL CLASS	12	3	15
17	D+16	Discussion Session/ Revision/Class Test	0	1	1
18	D+17	The Drugs and Cosmetics Act, 1940 —General study of the Drugs and Cosmetics Act and the Rules thereunder.	1	0	1
19	D+18	General study of the Drugs and Cosmetics Act and the Rules thereunder.	1	0	1
20	D+19	Definitions and salient features related to retail and wholesale distribution of drugs.	1	0	1
21	D+20	Discussion Session/ Revision/Class Test	0	1	1
22	D+21	The powers of Inspectors	1	0	1

23	D+22	the sampling procedures and the procedure and formalities in obtaining licenses under the rule	1	0	1
24	D+23	the sampling procedures and the procedure and formalities in obtaining licenses under the rule	1	0	1
25	D+24	Discussion Session/ Revision/Class Test	0	1	1
26	D+25	Facilities to be provided for running a Pharmacy effectively	1	0	1
27	D+26	Facilities to be provided for running a Pharmacy effectively	1	0	1
	D+27	General study of the Schedules with special reference of	1	0	1
28		schedules C, C1and salient features of labelling and storage condition of drugs.			
29	D+28	Discussion Session/ Revision/Class Test	0	1	1
30	D+29	General study of the Schedules with special reference of schedules F, G, and salient features of labelling and storage condition of drugs.	1	0	1
31	D+30	General study of the Schedules with special reference of schedules J,H and salient features of labelling and storage condition of drugs.	1	0	1
32	D+31	General study of the Schedules with special reference of schedules P and X and salient features of labelling and storage condition of drugs.	1	0	1
33		TOTAL CLASS	12	4	16
	D+32	Discussion Session/ Revision/Class Test	0	1	10
34	D+32 D+33		1	0	1
35		The Drug and Magic Remedies (Objectionable Advertisement) Act, 1945			
36	D+34	General study of the Act Objectives	1	0	1
37	D+35	General study of the Act Objectives	1	0	1
38	D+36	Discussion Session/ Revision/Class Test	0	1	1
39	D+37	special reference to be laid on Advertisements	1	0	1
40	D+38	special reference to be laid on Advertisements	1	0	1
41	D+39	Magic remedies and objectionable and permitted advertisements	1	0	1
42	D+40	Discussion Session/ Revision/Class Test	0	1	1
43	D+41	Magic remedies and objectionable and permitted advertisements	1	0	1
44	D+42	disease which cannot be claimed to be cured.	1	0	1
45	D+43	disease which cannot be claimed to be cured.	1	0	1
46	D+44	Discussion Session/ Revision/Class Test	0	1	1
47	D+45	Narcotic Drugs and Psychotropic Substances Act, 1985	1	0	1
48	D+46	A brief study of the act with special reference to its objectives	1	0	1
49	D+47	A brief study of the act with special reference to its objectives	1	0	1

50	D+48	Discussion Session/ Revision/Class Test	0	1	1
51	D+49	offences and punishment	1	0	1
52		TOTAL CLASS	12	4	16
53	D+50	Brief introduction to the study of the following acts.	1	0	1
54	D+51	Latest Drugs (Price Control) Order in force.	1	0	1
55	D+52	Discussion Session/ Revision/Class Test	0	1	1
56	D+53	Latest Drugs (Price Control) Order in force.	1	0	1
57	D+54	Poisons Act 1919 (as amended to date)	1	0	1
58	D+55	Poisons Act 1919 (as amended to date)	1	0	1
59	D+56	Discussion Session/ Revision/Class Test	0	1	1
60	D+57	Medicinal and Toilet Preparations (Excise Duties) Act,1995 (as amended to date)	1	0	1
61	D+58	Medicinal and Toilet Preparations (Excise Duties) Act,1995 (as amended to date)	1	0	1
62	D+59	Medical Termination of Pregnancy Act, 1971 (as amended to date).	1	0	1
63	D+60	Discussion Session/ Revision/Class Test	0	1	1
64	D+61	Medical Termination of Pregnancy Act, 1971 (as amended to date).	1	0	1
		TOTAL CLASS	9	3	12



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Lesson Plan

Program- D.Pharm

year- 2nd year

Course code- DPH-215

Course name- DRUG STORE AND BUSINESS MANAGEMENT

S. No.	Day	Subject	L	T	P	Total
1	D Day					
2	D+1	Introduction of Trade, Industry and Commerce	1	0	0	1
3	D+2	Functions and subdivision of Commerce	1	0	0	1
4	D+3	Introduction of Elements of Economics and Management	1	0	0	1
5	D+4	Introduction of Elements of Economics and Management	1	0	0	1
6	D+5	Forms of Business Organizations.	1	0	0	1
7	D+6	Tutorial	0	1	0	1
8	D+7	Forms of Business Organizations.	1	0		1
9	D+8	Channels of Distribution.	1	0	0	1
10	D+9	Channels of Distribution.	1	0	0	1
11	D+10	Tutorial	0	1	0	1
12	D+11	Drug House Management -Selection of Site	1	0	0	1
13	D+12	Space Lay-out and legal requirements.	1	0	0	1
14	D+13	Tutorial	0	1	0	1
15	D+14	Space Lay-out and legal requirements.	1	0	0	1
16	D+15	Importance and objectives of Purchasing	1	0	0	1

17	D+16	selection of suppliers, credit information	1	0	0	1
18	D+17	selection of suppliers, credit information	1	0	0	1
19	D+18	tenders, contracts and price determination	1	0	0	1
20	D+19	Tutorial	0	1	0	1
21	D+20	tenders, contracts and price determination	1	0	0	1
22	D+21	legal requirements thereto	1	0	0	1
23	D+22	Codification, handling of drug stores and other hospital supplies.	1	0	0	0
24	D+23	Codification, handling of drug stores and other hospital supplies.	1	0	0	0
		TOTAL	19	4		23
25	D+24	Inventory Control –objects and importance	1	0	0	0
26	D+25	modern techniques like ABC, VED analysis	1	0	0	1
27	D+26	modern techniques like ABC, VED analysis	1	0	0	1
28	D+27	Class test	1	0	0	1
29	D+28	Tutorial	0	1	0	1
30	D+29	the lead time inventory carrying cost	1	0	0	1
31	D+30	safety stock	1	0	0	1
32	D+31	minimum and maximum stock levels	1	0	0	1
33	D+32	minimum and maximum stock levels	1	0	0	1
34	D+33	Tutorial	0	1	0	1
35	D+34	economic order quantity	1	0	0	1
36	D+35	economic order quantity	1	0	0	1
37	D+36	scrap and surplus disposal	1	0	0	1
38	D+37	scrap and surplus disposal	1	0	0	1
39	D+38	Tutorial	0	1	0	1
40	D+39	Class test/Revision	1	0	0	1
41	D+40	Market Research	1	0	0	1
42	D+41	Market Research	1	0	0	1

43	D+42	Salesmanship	1	0	0	1
44	D+43	qualities of a salesman	1	0	0	1
45	D+44	qualities of a salesman	1	0	0	1
46	D+45	Tutorial	0	1	0	1
		TOTAL	18	4		22
47	D+46	Advertising and Window Display	1	0	0	1
48	D+47	Advertising and Window Display	1	0	0	1
49	D+48	Advertising and Window Display	1	0	0	1
50	D+49	Recruitment, training	1	0	0	1
51	D+50	Tutorial	0	1	0	1
52	D+51	evaluation and compensation of the pharmacist	1	0	0	1
53	D+52	evaluation and compensation of the pharmacist	1	0	0	1
54	D+53	evaluation and compensation of the pharmacist	1	0	0	1
55	D+54	evaluation and compensation of the pharmacist	1	0	0	1
56	D+55	Tutorial	0	1	0	1
57	D+56	Banking and Finance Service	1	0	0	1
58	D+57	Banking and Finance Service	1	0	0	1
59	D+58	functions of the bank	1	0	0	1
60	D+59	functions of the bank	1	0	0	1
61	D+60	Tutorial	0	1	0	1
62	D+61	Finance Planning and sources of finance.	1	0	0	1
63	D+62	Finance Planning and sources of finance.	1	0	0	1
64	D+63	Finance Planning and sources of finance.	1	0	0	1
65	D+64	Introduction to the accounting concepts and conventions	1	0	0	1
66	D+65	Tutorial	0	1	0	1
67	D+66	Introduction to the accounting concepts and conventions	1	0	0	1
68	D+67	Introduction to the accounting concepts and conventions	1	0	0	1
69	D+68	Double entry Book keeping	1	0	0	1
70	D+69	Tutorial	0	1	0	1

		Total	20	5		25
71	D+70	Double entry Book keeping	1	0	0	1
72	D+71	Double entry Book keeping	1	0	0	1
73	D+72	Different kinds of accounts	1	0	0	1
74	D+73	Different kinds of accounts	1	0	0	1
75	D+74	Class test/ Revision	1	0	0	1
76	D+75	Tutorial	0	1	0	1
77	D+76	Class test/ Revision	1	0	0	1
78	D+77	Class test/ Revision	1	0	0	1
79	D+78	General Leger and Trial Balance	1	0	0	1
80	D+79	Tutorial	0	1	0	1
81	D+80	General Leger and Trial Balance	1	0	0	1
82	D+81	Profit and Loss Account	1	0	0	1
83	D+82	Profit and Loss Account	1	0	0	1
84	D+83	Balance Sheet	1	0	0	1
85	D+84	Balance Sheet	1	0	0	1
86	D+85	Tutorial	0	1	0	1
87	D+86	Simple technique of analyzing financial statements	1	0	0	1
88	D+87	Simple technique of analyzing financial statements	1	0	0	1
89	D+88	Introduction to Budgeting	1	0	0	1
90	D+89	Introduction to Budgeting	1	0	0	1
91	D+90	Class test/ Revision	1	0	0	1
92	D+91	Class test/ Revision	1	0	0	1
93	D+92	Tutorial	0	1	0	1
		Total	18	4		22



Lesson Plan

Program- D.Pharm

Year - II

Course - HOSPITAL AND CLINICAL PHARMACY

Course code (DPH-216)

S. No.	Day	Subject	L	T	P	Total
1	D Day					
2	D+1	Definition of Hospitals and its Function	1	0	0	1
3	D+2	Classification of hospital based on organization	1	0	0	1
4	D+3	Classification of hospital based on Management and Health delivery system in India	1	0	0	1
5	D+4	Definition of Hospital Pharmacy	1	0	0	1
6	D+5	Tutorial(Discussion Session/Revision/Class Test)	0	1	0	1
7	D+6	Functions and objectives of Hospital Pharmaceutical services	1	0	0	1
8	D+7	Location, Layout, Flow chart of material and men for hospital	1	0	0	1
9	D+8	Personnel and facilities requirements including equipment based on individual and basic needs	1	0	0	1
10	D+9	Requirements and abilities required for Hospital pharmacists	1	0	0	1
11	D+10	Tutorial(Discussion Session/Revision/Class Test)	0	1	0	1
12	D+11	Drug Distribution system in Hospitals	1	0	0	1
13	D+12	Out –patient services in Hospitals	1	0	0	1
14	D+13	In-patient services – (a) types of services (b) detailed discussion of unit Dose system, Floor ward stock system	1	0	0	1
15	D+14	Satellite pharmacy services, Central sterile services, Bed Side Pharmacy	1	0	0	1
16	D+15	Tutorial(Discussion Session/Revision/Class Test)	0	1	0	1
17	D+16	Manufacturing type based hospitals	1	0	0	1

18	D+17	Economical considerations, estimation of demand	1	0	0	1
19	D+18	Sterile manufacture-large and small volume parenteral	1	0	0	1
20	D+19	Facilities and requirements for manufacturing parenteral	1	0	0	1
21	D+20	Tutorial(Discussion Session/Revision/Class Test)	0	1	0	1
22	D+21	Layout production and planning and man-power requirements	1	0	0	1
23	D+22	Non-sterile manufacture like Liquid orals	1	0	0	1
24	D+23	External preparations like bulk concentrates and Procurement of stores and testing of raw materials	1	0	0	1
		Total	19	4	0	23
25	D+24	Nomenclature and uses of surgical instruments	1	0	0	1
26	D+25	Hospital Equipment and health accessories	1	0	0	1
27	D+26	P.T.C (Pharmacy Therapeutic Committee) and its functions	1	0	0	1
28	D+27	Hospital Formulary System and their organization	1	0	0	1
29	D+28	Tutorial(Discussion Session/Revision/Class Test)	0	1	0	1
30	D+29	Hospital Formulary functioning and composition.	1	0	0	1
31	D+30	Drug Information service	1	0	0	1
32	D+31	Drug Information Bulletin and its role in hospitals	1	0	0	1
33	D+32	Surgical dressing like cotton.	1	0	0	1
34	D+33	Tutorial(Discussion Session/Revision/Class Test)	0	1	0	1
35	D+34	Adhesive tapes including their pharmacopoeial tests for quality	1	0	0	1
36	D+35	Other hospital supply e.g. I.V sets B.G sets, Ryals tubes, Catheters, Syringes etc	1	0	0	1
37	D+36	gauze, bandages and their quality control	1	0	0	1
38	D+37	Application of computer in maintenance of records	1	0	0	1
39	D+38	Tutorial(Discussion Session/Revision/Class Test)	0	1	0	1
40	D+39	inventory control and its role in hospital pharmacy	1	0	0	1
41	D+40	medication and monitoring	1	0	0	1
42	D+41	drug information and data storage	1	0	0	1
43	D+42	retrieval in hospital and its functions	1	0	0	1
44	D+43	Tutorial(Discussion Session/Revision/Class Test)	0	1	0	1
45	D+44	Retail pharmacy establishments.	1	0	0	1
46	D+45	Role of surgical instruments in hospital	1	0	0	1
47	D+46	Quality control of parenteral and its factors.	1	0	0	1

		Total	19	4	0	23
48	D+47	Introduction of Clinical Pharmacy Practice	1	0	0	1
49	D+48	Definition and scope of Clinical Pharmacy Practice	1	0	0	1
50	D+49	Modern dispensing aspects	1	0	0	1
51	D+50	Pharmacists and Patient counseling	1	0	0	1
52	D+51	Tutorial(Discussion Session/Revision/Class Test)	0	1	0	1
53	D+52	Pharmacist advice for the use of common drugs	1	0	0	1
54	D+53	Maintenance of medication history	1	0	0	1
55	D+54	Common daily terminology used in the Practice of Medicine	1	0	0	1
56	D+55	manifestation and pathophysiology including salient symptoms to understand the disease like Tuberculosis and Hepatitis	1	0	0	1
57	D+56	Tutorial(Discussion Session/Revision/Class Test)	0	1	0	1
58	D+57	Manifestation and pathophysiology including salient symptoms to understand the disease Rheumatoid and Arthritis	1	0	0	1
59	D+58	Manifestation and pathophysiology including salient symptoms to understand the disease Diabetes, Peptic Ulcer, Hypertension	1	0	0	1
60	D+59	Manifestation and pathophysiology including salient symptoms to understand the disease Cardiovascular diseases, Epilepsy	1	0	0	1
61	D+60	Physiological parameters with their significance	1	0	0	1
62	D+61	Tutorial(Discussion Session/Revision/Class Test)	0	1	0	1
63	D+62	Definition and introduction Drug Interactions	1	0	0	1
64	D+63	Mechanism of Drug Interaction	1	0	0	1
65	D+64	Drug –drug interaction with reference to analgesics, diuretics	1	0	0	1
66	D+65	Drug –drug interaction with reference to cardiovascular drugs	1	0	0	1
67	D+66	Tutorial(Discussion Session/Revision/Class Test)	0	1	0	1
68	D+67	Drug –drug interaction with reference to Gastro-intestinal agents	1	0	0	1
69	D+68	Drug –drug interaction of Vitamins and Hypoglycemic agents.	1	0	0	1
70	D+69	Drug –food interaction and Some common examples of food food interaction and drug drug interaction	1	0	0	1
		Total	19	4	0	23
71	D+70	Definition of Adverse Drug Reactions	1	0	0	1
72	D+71	Significance of Adverse Drug Reactions	1	0	0	1

73	D+72	Drug –induced diseases and Teratogenicity	1	0	0	1
74	D+73	Drugs in Clinical Toxicity	1	0	0	1
75	D+74	Tutorial(Discussion Session/Revision/Class Test)	0	1	0	1
76	D+75	Introduction, definition and effects of Drugs in Clinical Toxicity	1	0	0	1
77	D+76	General treatment of poisoning	1	0	0	1
78	D+77	Systematic antidotes with examples	1	0	0	1
79	D+78	Treatment of insecticide poisoning	1	0	0	1
80	D+79	Tutorial(Discussion Session/Revision/Class Test)	0	1	0	1
81	D+80	Heavy metal poison	1	0	0	1
82	D+81	Treatment of Narcotic drugs	1	0	0	1
83	D+82	Treatments of Barbiturate	1	0	0	1
84	D+83	Organophosphorus poisons	1	0	0	1
85	D+84	Tutorial(Discussion Session/Revision/Class Test)	0	1	0	1
86	D+85	Definition and introduction of Drug dependences	1	0	0	1
87	D+86	Introduction and causes of Drug abuse	1	0	0	1
88	D+87	Addictive drugs and their treatment	1	0	0	1
89	D+88	Drug complications and its treatment	1	0	0	1
90	D+89	Tutorial(Discussion Session/Revision/Class Test)	0	1	0	1
91	D+90	Definition of Bio-availability of drugs	1	0	0	1
92	D+91	Types of bioavailability	1	0	0	1
93	D+92	Factors affecting bioavailability	1	0	0	1
		Total	19	4	0	23

Signature Faculty



Lesson Plan

Program- D.Pharm

Year - II

Course - HOSPITAL AND CLINICAL PHARMACY

Course code (DPH-216)

S. No.	Day	Subject	L	T	P	Total
1	D Day					
2	D+1	To prepare 100ml of compound sodium chloride i.v. infusion.	4	0	0	4
3	D+2	To prepare 100ml of compound sodium bicarbonate i.v. infusion.	4	0	0	4
4	D+3	To prepare 100ml of 5% w/v dextrose solution for injection I.P.	4	0	0	4
5	D+4	To prepare 100ml of normal saline solution for injection.	4	0	0	4
6	D+5	To sterilize various surgical instruments by dry heat sterilization.	4	0	0	4
7	D+6	To sterilize the following objects by moist heat sterilization method using Autoclave. Rubber gloves Rubber closure Surgical dressing	4	0	0	4
8	D+7	To study various equipments, clothing and materials used in aseptic technique.	4	0	0	4
9	D+8	To perform the identification test for the absorbent cotton wool.	4	0	0	4

		Total	80	0	0	80
21	D+20	To study various components of computer	4	0	0	4
2 U	D+19	it by filtration method.	4		U	4
20	D+19	fluorescence test. To prepare 50 ml of 5% dextrose solution and sterilize	4	0	0	4
19	D+18	To evaluate the given sample of cotton wool by	4	0	0	4
18	D+17	To determine the loss on drying of absorbent cotton wool.	4	0	0	4
17	D+16	To determine the no. of threads per 10 cm of absorbent ribbon gauge.	4	0	0	4
16	D+15	To determine the sinking time of absorbent cotton wool.	4	0	0	4
15	D+14	To prepare water for injection.	4	0	0	4
14	D+13	To sterilize rubber gloves.	4	0	0	4
13	D+12	To prepare 100 ml of compound sodium lactate for injection I.P.	4	0	0	4
12	D+11	To prepare 100 ml of 20% w/v Mannitol I.V infusion.	4	0	0	4
11	D+10	To find out the % variation in the length and width of given sample of bandage.	4	0	0	4
10	D+9	To perform the limit test for chloride &sulphate.	4	0	0	4