

PHC 428 (Medicinal chemistry IV)

Lectures outlines

Week	Lecture number	Topic
1	1	Chemotherapy: Introduction to chemotherapy
	2	Sulfonamides
2	3	Synthetic antimalarials
	4	
3	5	Synthetic antimalarials
	6	
4	7	Antimycobacterium agents
	8	Antiamoebic agents
5	9	Anthelmintic agents
	10	Antiviral agents
6	11	Antiviral agents
	12	
7	13	Antiviral agents
	14	Antifungal agents
8	15	Cancer chemotherapy (antineoplastic agents):
	16	DNA interactive agents
9	17	Alkylating agents
	18	
10	19	Antimetabolites
	20	
11	21	Miscellaneous antineoplastic agents
	22	
12	23	Hypoglycaemic agents
	24	
13	25	Thyroid and antithyroid agents
	26	
14	27	Two Examinations
	28	

Laboratory project's outlines

Week	Topic	Project
1	Aspirin	<ol style="list-style-type: none"> 1. Synthetic route 2. Identification: IR, MS, NMR 3. Yield %
2	Aspirin tablet	<ol style="list-style-type: none"> 1. Identification 2. Limit test 3. Assay according to British Pharmacopeia
	Ascorib acid tablet	Assay (redox titration)
3	Chloramphenicol capsules	<ol style="list-style-type: none"> 1. Identification 2. Assay (UV assay)
	Indomethacin suppositories	<ol style="list-style-type: none"> 1. Identification 2. Assay (UV assay)
4	Methyldopa tablet	<ol style="list-style-type: none"> 1. Identification 2. Assay (visible or colourimetric assay)
	Furosemide injection	<ol style="list-style-type: none"> 1. Identification 2. Assay (UV assay)
5	Benzocaine	1. Synthetic route
6		<ol style="list-style-type: none"> 2. Identification: IR, MS, NMR 3. Yield %
7	Practical examination 1	
8	Paracetamol	<ol style="list-style-type: none"> 1. Synthetic route 2. Identification: IR, MS, NMR 3. Yield %
	Paracetamol tablet	<ol style="list-style-type: none"> 1. Identification 2. Assay (UV assay)
9	Tolbutamide tablet	<ol style="list-style-type: none"> 1. Identification 2. Assay (acid-base titration)
	Griseofulvin tablet	<ol style="list-style-type: none"> 1. Identification 2. Assay (UV assay)
10	Phenytoin	<ol style="list-style-type: none"> 1. Synthetic route 2. Identification: IR, MS, NMR 3. Yield %

Week	Topic	Project
11	Busulfan tablet	1. Identification 2. Assay
	Chloroquine phosphate tablet	1. Identification 2. Assay
12	Dichloramine-T and chloramine-T	1. Synthetic route 2. Identification: IR, MS, NMR 3. Yield %
13	Revision	
14	Practical examination 2	