



Course Weekly Outline

Course Instructor	Dr. Ahmed Hashim Hussein			
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Title	Industrial Pharmacy II			
Course Coordinator	Dr. Ahmed Hashim Hussein			
Course Objective	The course enable technical setup for coordination of standards for formulation of typical dosage forms and the principles needed to learn mass production of different pharmaceutical dosage forms. The syllabus includes different dosage forms like tablets, capsules, aerosols, emulsion, etc, besides the advanced techniques like enteric coating and micro-encapsulation.			
Course Description	This course includes both academic and practical teaching parts to train and prepare the graduating pharmacy students for to work in both drugs factories, quality control facilities and community pharmacies.			
Textbook	The Theory and Practice of Industrial Pharmacy by Leon Lachman et al.			
References	Pharmaceutics: The <i>Science of Dosage Form Design</i> by Michael E. Aulton			
General notes:	Study in faculty of pharmacy- Kufa university is based on semester type rather than annual			
Course Assessment	Term Tests	Laboratory	Quizzes	Final Exam
	As (20%)	As (20%)	As (10%)	As (50%)

Course weekly Outline

week	Date	Topics Covered	Number of Hours
1	22.9.2014	Pharmaceutical dosage forms: Tablets; role in therapy; advantages and disadvantages;	3
2	29.9.2014	Pharmaceutical dosage forms: Tablets; formulation; properties; evaluation; machines used in tableting; quality control	3
3	6.10.2014	Pharmaceutical dosage forms: Tablets; problems; granulation, and methods of production; excipients, and types of tablets coating and types of coating	3
4	13.10. 2014	Tablet coating; principles; properties; equipments; processing; types of coating (sugar and film); quality control, and problems.	3
5	20..10. 2014	modified release tablets dosage forms. theory and concepts; evaluation and testing; formulation.	3
6	27.10. 2014	Capsules: Hard gelatin capsules; materials; production; filling equipments; formulation; special techniques.	3
7	3.11. 2014	Soft gelatin capsules: Manufacturing methods; nature of capsule shell and content; processing and control; stability.	3
8	10.11.2014	Micro-encapsulation; core and coating materials; stability; equipments and methodology.	3

9	17.11. 2014	Liquids: Formulation; stability and equipments. Suspensions: Theory; formulation and evaluation.	3
10	24.11. 2014	Emulsions: Theory and application; types; formulation; equipments and quality control. Semisolids: Percutaneous absorption; formulation; types of bases (vehicles) preservation; processing and evaluation.	3
11	1.12. 2014	Semisolids: Percutaneous absorption; formulation; types of bases (vehicles) preservation; processing and evaluation.	3
12	8.12. 2014	Suppositories: Rectal absorption; uses of suppositories; types of bases; manufacturing processes; problems and evaluation.	3
13	15.12. 2014	types of bases; manufacturing processes; problems and evaluation.	3
14	22.12. 2014	Pharmaceutical aerosols: Propellants; containers; formulation;.	3
15	29.12. 2014	types and selection of components; stability; manufacturing; quality control and testing	3

Instructor Signature:

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