In the name of GOD

Department of

School of pharmacy

Course title: Pharmaceutics 3 (theory)

Course code:

Credit(Theory or Practical): 3 (theory)

Prerequisite: pharmaceutics 1

First Semester: Sep 2023

Course Instructors: Dr. Zohreh Mohammadi, Dr Ahmadreza Barazesh,

Responsible Instructor: Dr. Zohreh Mohammadi

References:

- 1- Aulton's Pharmaceutics: The Design and Manufacture of Medicines, Michael E. AultonBPharm PhD, Kevin M.G. Taylor BPharm PhD, latest edition
- 2- Ansel's Pharmaceutical Dosage Forms and Drug Delivery Systems, Loyd Allen, latest edition
- 3- Recent articles

Student assessment:

1-Attendance, class works and exams: 35%

3-Final exam (multiple-choice questions, descriptive questions):multiplechoice and descriptive questions: 65%

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• All classes will be held in Besarati (Eastern 7) street, North Shahin Boulevard

Course title:

	subject	Professor	Date	Time
1	Suspensions: introduction, definition, main mechanisms, The DLVO theory, And Particle movement in suspensions,	Dr. ZohrehMohammadi	27 Sep	10-13
_	Dispersability issues			
3	General suspension formulation considerations, Stability considerations for suspensions	Dr. ZohrehMohammadi	4 Oct	10-13
4	And nanosuspensions			10 12
5	Emulsions and nanoemulsions: introduction, formation mechanisms, And	Dr. ZohrehMohammadi	11 Oct	10-13
6	Pharmaceutical emulsions and their formulations			
7	Emulsifying agents		25 Oct	10-13
8	And Emulsion processing and stability	Dr. ZohrehMohammadi	25 000	
9	Introduction to solutions,	Dr. Ahmad Reza Barazesh	1 Nov	10-13
10	Pharmaceutical solutions: solvent system, drug, excipients,			
11	Parentral drug delivery: introduction, definition, different routes, Absorption from injection sites			10-13
12	And Pharmacopoeial requirements of parentral dosage forms	Dr. Ahmad Reza Barazesh	8 Nov	
13	Formulation of parentral dosage forms And	Dr. Ahmad Reza Barazesh	15 Nov	
14	Sterilization And Pyrogens and depyrogenation			10-13
	MID-TERM EXAM		22 Nov	10-13

15 ,16	Clean rooms: definition, classification, standards and controls	Dr Ahmad Reza Barazesh	29 Nov	10-13
17	Nasal drug delivery (1): introduction, various delivery systems And	Dr. ZohrehMohammadi	6 Dec	10-13
18	Nasal drug delivery (2): anatomical, physiological and formulation factors.		0 Dec	
19	Ocular drug de livery(1): introduction and basic principles And			
20	Ocular drug delivery(2): Various preparations and their formulations And	Dr. ZohrehMohammadi	13 Dec	10-13
21	Ocular drug de livery(3): Improving drug solubility and absorption in ophthalmic preparations			
22	Pharmaceutical packaging (1): introduction and basic principles And	Dr. ZohrehMohammadi	20 Dec	10-13
23	Pharmaceutical packaging (2): packaging materials		20 Dec	