



**In the name of GOD**

**Department of Pharmaceutics**

**School of pharmacy, Iran University of Medical Sciences**

Course title: Microbial control of drug products

Course code:

Credit (Theory or Practical): 2 (theory)

*Prerequisite:* pharmaceutics 1-4

*First Semester:* Sep 2023

Course Instructors: Dr. Hamed Morad and Dr. Mehdi Ansari

Responsible Instructor: Dr. Hamed Morad

[morad.h@iums.ac.ir](mailto:morad.h@iums.ac.ir)

***References:***

- 1- USP
- 2- BP
- 3- Hugo and Russell's, Pharmaceutical Microbiology
- 4- *Tim Sandle*, Pharmaceutical Microbiology Essentials for Quality Assurance and Quality Control

***Student assessment:***

- 1-Attendance and team work: 10%
- 2-class exams: 20%
- 3-Final exam (multiple-choice questions, descriptive questions): 70%



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

Course title:

	subject	Professor	Date	Time
1	Principles of microbiological control	Dr. Morad	30 Sep	13-15
2	Sterilization methods and principles (1)	Dr. Morad	7 Oct	13-15
3	Sterilization methods and principles (2)	Dr. Morad	14 Oct	13-15
4	Sterilization controls & sterility assurance	Dr. Ansari	21 Oct	13-15
5	Microbiological controls of non-sterile products (1)	Dr. Ansari	28 Oct	13-15
6	Microbiological controls of non-sterile products (2)	Dr. Ansari	4 Nov	13-15
7	Anti-microbial systems (1)	Dr. Ansari	11 Nov	13-15
8	Anti-microbial systems (2)	Dr. Ansari	18 Nov	13-15
9	Quality assurance in anti-microbial processes (1)	Dr. Morad	25 Nov	13-15
10	Quality assurance in anti-microbial processes (2)	Dr. Morad	2 Dec	13-15
11	Analytical microbiology (1)	Dr. Morad	9 Dec	13-15
12	Analytical microbiology (2)	Dr. Morad	16 Dec	13-15
13	Analytical microbiology (3)	Dr. Morad	23 Dec	13-15



### The contribution of the grade of the professors of the course

<b>professors</b>	<b>Attendance and team work</b>	<b>Class Exam</b>	<b>Final Exam</b>	<b>Sum</b>
Dr Hamed Morad	1	2	10	13
Dr. Mehdi Ansari	0.5	1	5.5	7