

Theoretical and practical course plan form

Ilam University of Medical Sciences

Introducing the special physics course 2, second semester 2020-2021

School: Health Department: Occupational Health Engineering

Name and course number: special physics 2

Majors and degree: Continuing Bachelor of Occupational Health Engineering

Day and time: Sunday 12-10

Venue: School of Health

Name of the person in charge of the course (course instructor): Dr. Seyed Salman Zakariaei

Office Address: School of Paramedical Sciences

* Email Address: zakariaee-s@medilam.ac.ir

General purpose of the course: Familiarity with the rules and physical equations in the field of mechanical and electromagnetic waves, as well as familiarity with the concepts and principles of electricity and magnetism

• **Student duties** (student homework during the semester)

-Solve exercises presented in class

-Participate in answering lesson questions

-Participate in the evaluations of each session and solve assignments

• **Main sources** (observing the principles of source writing and giving an address for their preparation, including library, bookstore, internet ...)

1- University physics W.Marl W.zemenslay Hugh Young

2- Functional of Physics David Halliday Robert Resnick and Hearl Walker

3- Academic Physics, Francis Serz

4- Fundamentals of Physics, David Halliday, Robert Ring

• **Teaching methods and teaching aids used:**

The teaching method in this course will be in the form of group discussion, problem solving and question and answer using magic and whiteboard as well as using other educational media.

- Methods and time of assessment and evaluation of the student and the bar related to each evaluation: (Type of exams in terms of how to design a question - loading - time of exams and assignments should be mentioned)

Method	Score	Date	Time
Solve problems and midterm exams	8	Semester length	Scheduled training hours
End of term exam	12	End of semester	Scheduled training hours
Total	20		

Lesson rules and expectations from students

- 1- Attending the class on time and based on the set time
- 2- Observance of training and disciplinary regulations
- 3- Studying the contents of the previous session and preparing to attend the class
- 4- Solve problems at home and answer on the due date
- 5- According to the educational regulations, unjustified absence in the final exam will be considered as a score of zero and justified absence will cause the removal of that course.

Schedule of presentation of specialized physics curriculum for the second semester of 2020-2021

Session	Date	Time	Topic	lecturer	Necessary preparation of students before the start of the class
1		10-12	Familiarity with electric current	Dr. Zakariaei	
2		10-12	Familiarity with the construction and application of some electrical components in the circuit	Dr. Zakariaei	knowing the contents of the previous session
3		10-12	Familiarity with the construction and application of some electrical components in the circuit	Dr. Zakariaei	knowing the contents of the previous session
4		10-12	Familiarity with electric waves and waves	Dr. Zakariaei	knowing the contents of the previous session
5		10-12	Familiarity with audio and related laws	Dr. Zakariaei	knowing the contents of the previous session
6		10-12	Familiarity with audio and related laws	Dr. Zakariaei	knowing the contents of the previous session
7		10-12	midterm exam	Dr. Zakariaei	knowing the contents of the previous session
8		10-12	Familiarity with electromagnetic waves and optical phenomena	Dr. Zakariaei	knowing the contents of the previous session
9		10-12	Familiarity with electromagnetic waves and optical phenomena	Dr. Zakariaei	knowing the contents of the previous session
10		10-12	Familiarity with the tour and its rules	Dr. Zakariaei	knowing the contents of the previous

					session
11		10-12	Introduction to optics (optics)	Dr. Zakariaei	knowing the contents of the previous session
12		10-12	Familiarity with the medical applications of optics	Dr. Zakariaei	knowing the contents of the previous session
13		10-12	Familiarity with the applications of optics in laboratories and research centers	Dr. Zakariaei	knowing the contents of the previous session
14		10-12	Familiarity with the medical applications of optics	Dr. Zakariaei	knowing the contents of the previous session