C 4. D

Course Description Form	
1. Course Name:	
biosensor	
2. Course Code:	
WBM-52-08	
3. Semester /	
Year: second \ fifth year	
4. Description Preparation Date:	
19/3/2024	
5. Available Attendance Forms:	
6. Number of Credit Hours (Total) / Number of Units (Total)	
45 hours	
7. Course administrator's name (mention all, if more than one name)	
Name: Assistant Lecturer :Mustafa Habib	
Email: <u>mustafa.ha@uowa.edu.iq</u>	
8. Course Objectives	
Course Objectives • 1- Identify the basic parts of the medical sensor and how to mai	ufact
 2- How medical allergens develop over time 	
- 3- Knowing the types of medical allergens	
• 4– Classification of medical allergens according to use	
5- The purpose of using medical sensors with the human body	
9. Teaching and Learning Strategies	
Strategy1- Theoretical lectures. Using the whiteboard and da 2- Discussion lectures Tutorials. 3- Practical experiments in laboratories.	a sh
4- Homework assignments.	
10. Course Structure	

جامعة وارث الأنبياء / كلية الهندسة / قسم هندسة الطب الحياتي وصف المقرر الدراسي

Week	Hours	Required Learning	Unit or subject name	Learning meth o
		Outcomes		
First	3	Definition, characteristics, principles, and requirements.	Definition, characteristics, principles, and requirements.	theory
Second	3	Electrodes and definition	Electrodes and definition	theory
Third	3	electronic CCT and types.	electronic CCT and types.	theory
Fourth	3	Surface electrodes	Surface electrodes	theory
Fifth	3	Needle electrodes	Needle electrodes	theory
Sixth	3	Transducers and properties.	Transducers and properties.	theory
Seventh	3			theory
Eighth	5 3	Resistive transducers and thermometric transducers.	Resistive transducers and thermometric transducers.	theory
ninth	3	Medical applications	Medical applications	theory
tenth	3	Piezoelectric	Piezoelectric	theory
eleventh	3	ultrasound transducers	ultrasound transducers	theory
twelveth	3	20 Mechanical transducers, and medical applications.	Mechanical transducers, and medical applications.	theory
Thirteenth	3-	م الهندش		theory
fourteenth	3	Chemical transducers and medical applications	Chemical transducers and medical applications	theory
fifteenth	3	pressure measurement transducers.	pressure measurement transducers.	theory

2

جامعة وارث الأنبياء / كلية الهندسة / قسم هندسة الطب الحياتي وصف المقرر الدراسي

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparati etc

12. Learning and Teaching Resources		
Required textbooks (curricular books, if any)	Wang, P., & Liu, Q. (201 Business Media.	'). Bic
Main references (sources)	 Wang, P., & Liu, Q. (2017 & Business Media. 	. Bio
	2- Introduction to Biomedical l	ngine
Recommended books and references (scientific journals, reports)	Standard handbook of biomedical senso	s
Electronic References, Websites	https://books.google.iq/books/about/Ha	dbook
OF WORTH .		

- 5° 14 - 5° 4, 74.