Course Description Form of statistics

1. Course Name:
statistics
2. Course Code:
APD-1103
3. Semester / Year:
first semester/ 2024-2025
4. Description Preparation Date:
15/1/2025
5. Available Attendance Forms:
Attending
6. Number of Credit Hours (Total) / Number of Units (Total)
150 hours / 6 units
7. Course Administrator's Name (Mention All, If More Than One Name)
Name: Dr. Zaid Mohmmed Mahdi Email : zaidmahdi@uodiyala.edu.iq
8. Course Objectives
The module aims to teach the students Give a definition of statistics , Practical application of statistics laws and applications ,Statistical analysis of samples taken in statistical research.
9. Teaching and Learning Strategies
A 15 week attendance lectures, interspersed with two monthly exams, daily exams & reports.

10. Course Structure					
Theoretical part					
Week	**Hours**	**Required learning outcomes**	**Unit or Subject**	**Learning Method**	**Evaluation Method**
1	**2**	**A general introduction to statistics, its functions, types, and symbols**	**statistics**	**Lecture Dialogue & discussion Brainstorming**	Daily, monthly and final exams and daily reports
2	**2**	**Continuation of the explanation of a general introduction to statistics, its functions, types, and symbols**	**statistics**	**Lecture Dialogue & discussion Brainstorming**	Daily, monthly and final exams and daily reports
3	**2**	**displaying metadata tabularly and graphically**	**statistics**	**Lecture Dialogue & discussion Brainstorming**	Daily, monthly and final exams and daily reports
4	**2**	**descriptive statistics measures: arithmetic mean, median, mode, range, and average absolute deviations**	**statistics**	**Lecture Dialogue & discussion Brainstorming**	Daily, monthly and final exams and daily reports
5	**2**	**variance, standard deviation, relative coefficient of variation, standard score**	**statistics**	**Lecture Dialogue & discussion Brainstorming**	Daily, monthly and final exams and daily reports
6	Semester 1st exam				
7	**2**	**concepts related to probabilities and methods of calculating them**	**statistics**	**Lecture Dialogue & discussion Brainstorming**	Daily, monthly and final exams and daily reports
8	**2**	**discrete probability distributions (binomial distribution)**	**statistics**	**Lecture Dialogue & discussion Brainstorming**	Daily, monthly and final exams and daily reports
9	**2**	**continuous probability distributions (normal distribution).**	**statistics**	**Lecture Dialogue & discussion Brainstorming**	Daily, monthly and final exams and daily reports
10	**2**	**hypothesis testing**	**statistics**	**Lecture Dialogue & discussion Brainstorming**	Daily, monthly and final exams and daily reports
11	**2**	**chi-square**	**statistics**	**Lecture Dialogue & discussion Brainstorming**	Daily, monthly and final exams and daily reports
12	**3**	**regression and simple correlation**	**statistics**	**Lecture Dialogue & discussion Brainstorming**	Daily, monthly and final exams and daily reports
13	Semester 2nd exam				

14	**2**	**Review**	**statistics**	**Lecture Dialogue & discussion Brainstorming**	Daily, monthly and final exams and daily reports
14	**2**	**Mid exam**			

Practical part

Week	Hours	Required learning outcomes	Unit or Subject Name	Learning Method	Evaluation Method
1	**3**	**Arithmetic applications**	**statistics**	**Lecture Dialogue & discussion Brainstorming**	**Daily, monthly and final exams and daily reports**
2	**3**	**Arithmetic applications**	**statistics**	**Lecture Dialogue & discussion Brainstorming**	**Daily, monthly and final exams and daily reports**
3	**3**	**Arithmetic applications**	**statistics**	**Lecture Dialogue & discussion Brainstorming**	**Daily, monthly and final exams and daily reports**
4	**3**	**Arithmetic applications**	**statistics**	**Lecture Dialogue & discussion Brainstorming**	**Daily, monthly and final exams and daily reports**
5	**3**	**Arithmetic applications**	**statistics**	**Lecture Dialogue & discussion Brainstorming**	**Daily, monthly and final exams and daily reports**
6	**Semester 1st exam**				
7	**3**	**Arithmetic applications**	**statistics**	**Lecture Dialogue & discussion Brainstorming**	**Daily, monthly and final exams and daily reports**
8	**3**	**Arithmetic applications**	**statistics**	**Lecture Dialogue & discussion Brainstorming**	**Daily, monthly and final exams and daily reports**
9	**3**	**Arithmetic applications**	**statistics**	**Lecture Dialogue & discussion Brainstorming**	**Daily, monthly and final exams and daily reports**
10	**3**	**Arithmetic applications**	**statistics**	**Lecture Dialogue & discussion Brainstorming**	**Daily, monthly and final exams**

					and daily reports
11	**3**	**Arithmetic applications**	**statistics**	**Lecture Dialogue & discussion Brainstorming**	**Daily, monthly and final exams and daily reports**
12	**Semester 2nd exam**				
13	**3**	**Arithmetic applications**	**statistics**	**Lecture Dialogue & discussion Brainstorming**	**Daily, monthly and final exams and daily reports**
14	**3**	**Review**	**statistics**	**Lecture Dialogue & discussion Brainstorming**	**Daily, monthly and final exams and daily reports**
15	**3**	**Mid exam**			

11. Course Evaluation
Examination Monthly & daily exams with discussion questions inside the lecture . The degree of participation in the questions related to the subject.

12. Learning and Teaching Sources	
Required Textbooks (Curricular Books, If Any)	
Main References (Sources)	
Recommended Books and References (Scientific Journals, Reports...)	Iraqi academic journal
Electronic References, Websites	