

## Course Description Form

<b>1. Course Name:</b>	
Life statistics	
<b>2. Course Code:</b>	
<b>BST307</b>	
<b>3. Semester / Year:</b>	
Second semester/for the academic year 2023/2024	
<b>4. Description Preparation Date:</b>	
<b>1/9/2023</b>	
<b>5. Available Attendance Forms:</b>	
<b>Attendance in classrooms</b>	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
Number of hours (30) / Number of units (2)	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Bilal Amer Ibrahim Email: Bilal_Amer_Ibrahim@tu.edu.iq	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>• Introducing the student to the importance of statistics, its methods, and how to tabulate data.</li> <li>• Identify measures of central tendency.</li> <li>• Study measures of dispersion, coefficient variation, skewness and kurtosis.</li> </ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<p>A- Knowledge and understanding</p> <p>A1- The ability to collect and classify data.</p> <p>A2- The ability to find and analyze statistical indicators.</p> <p>A3- The ability to measure the degree of relationship between variables.</p> <p>B - Subject-specific skills</p> <p>B1 - Enable selection of the appropriate sample.</p> <p>B2 - Enables discrimination and classification of information.</p> <p>B3 - Enable analysis of variation in measurements.</p> <p>B4- Enabling the ability to analyze simple models.</p> <p>C- Thinking skills</p> <p>C1- Identify the problem and the nature of the variable.</p> <p>C2- Choose the appropriate method.</p> <p>C3- Performing the correct steps for the solution.</p> <p style="padding-left: 40px;">C4- Giving and analyzing the results.</p>

10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Concept of statistics	Definition of statistic and its importance	lecture	the exam
2	2	Data collection	Data collection methods	lecture	the exam
3	2	Classification and tabulation of data	Review, classify and tabulate data	lecture	the exam
4	2	Display data	Random variables and tabular display of data	lecture	the exam
5	2	Display data	Tabular display of data	lecture	the exam
6	2	Display data	Tabular display of data	lecture	the exam
7	2	Display data	Geometric display of data	lecture	the exam
8	2	Display data	Geometric display of data	lecture	the exam
9	2	Measuring mediators	Measures of central tendency: the arithmetic mean	lecture	the exam
10	2	Measuring mediators	Measures of central tendency: weighted arithmetic mean, harmonic mean	lecture	the exam
11	2	Measuring mediators	Measures of central tendency: square mean, geometric mean	lecture	the exam
12	2	Measuring mediators	Measures of central tendency: mode, median	lecture	the exam
13	2	Measuring mediators	Fractional scales: quartiles, deciles	lecture	the exam
14	2	Measuring mediators	The relationship between measures of central tendency	lecture	the exam
15	2	Measure variation in data	Measures of dispersion: range, interquartile deviation	lecture	the exam

### 11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

### 12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<ul style="list-style-type: none"> <li>- Sources: Statistics book, written by Dr. Mahmoud Al-Mashhadani, Amir Hanna Hormuz, 1989.</li> <li>- Applied statistics using ready-made packages: stat &amp; spss. Written by Mustafa Hussein B. Dr. Ahmed Abdel Fattah Salem and others, 2006.</li> </ul>
Main references (sources)	<ul style="list-style-type: none"> <li>- Principles of Statistics, Dr. Ahmed Abdel Samie</li> <li>- Introduction to statistics, Dr. On Friday</li> </ul>

Recommended books and references (scientific journals, reports...)	- International Journal of Statistical Studies and Insurance (IJSSI). Journal of Statistical Sciences, Arab Institute for Training and Statistical Research.
Electronic References, Websites	MarinStatsLectures-R Programming & Statistics  Khan Academy Probability and Statistics