MODULE DESCRIPTION FORM

Module Information		
معلومات المادة الدراسية		
Module Title	**Statistics**	**Module Delivery**
Module Type	**Core**	☒ **Theory** ☐ **Lecture** ☐ **Lab** ☒ **Tutorial** ☐ **Practical** ☐ **Seminar**
Module Code	TINI100	
ECTS Credits		
SWL (hr/sem)		

Module Level	1	**Semester of Delivery**		1
Legal Management Techniques Department	RETE	**College**	Nineveh Technical Management Institute	
Module Leader	Ammar Hazem	**e-mail**		
Module Leader's Acad. Title	Lecturer	**Module Leader's Qualification**		MS.C
Module Tutor		**e-mail**		
Peer Reviewer Name	Name	**e-mail**	E-mail	
Scientific Committee Approval Date		**Version Number**		

Relation with other Modules		
العلاقة مع المواد الدراسية الأخرى		
Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents

Module Aims	1. Understanding and applying statistical principles to categorized and uncategorized data. 2. Working on implementing statistical analysis tools and statistical software.
Module Learning Outcomes	1- Understanding statistical methods and data analysis techniques. 2- Recognizing the significance of the correlation between the department's scientific specialization and the utilization of statistical tools.
Indicative Contents	

	Learning and Teaching Strategies
Strategies	1. Delivering lectures and explaining the scientific and practical material to students in detail. 2. Engaging students through discussing topics to enhance their scientific and practical skills. 3. Student groups. 4. Discussing and dialoguing about vocabulary related to the subject.

Delivery Plan (Weekly Syllabus)
المنهاج الأسبوعي النظري

	Material Covered
Week 1	Statistics: Definition, Importance, and its Relationship with Other Sciences. Statistical Method Definition, Review of Statistical Method.
Week 2	Data Classification and Tabulation, Construction of Simple and Double Frequency Tables.
Week 3-4	Graphical Presentation of Categorized Data: A. Histogram B. .. Polygon C. . Ogive. D. D. Cumulative Frequency Curve for Ascending and Descending Series
Week 5	Measures of Central Tendency: Concept and Uses, Mean in Ungrouped and Grouped Data (Elaborate Method) and Concise Method.
Week 5	Median: Definition, Calculation Methods for Ungrouped and Grouped Data - Numerically and Graphically.
Week 6	Mode: Concept, Calculation for Ungrouped and Grouped Data (Numerically and Graphically).
Week 7-8	Measures of Dispersion: Concept, Uses, Range for Ungrouped and Grouped Data, Standard Deviation for Ungrouped Data.
Week 9-10	Standard Deviation for Grouped and Ungrouped Data.
Week 11	Simple Correlation: Concept, Calculation Methods for Ungrouped Data (Elaborate and Concise Methods).
Week 12	Simple correlation, its concept, and methods of calculating it for ungrouped data (lengthy method and shortcut method).
Week 13	The correlation coefficient for grouped data
Week 14	Rank correlation - Correlation, Spearman's rank correlation

Week 15	Correlation of attribute data. Coefficient of concordance. Coefficient of association
	Time series. Standard scores.

Learning and Teaching Resources		
مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	Principles of Statistics, Ahmed Tayeb, 2017	Yes
Recommended Texts	. Descriptive Statistics, Taha Hussein Youssef, 2019	yes
Websites		