Module (Course Syllabus) Catalogue

2022-2023

College/ Institute	**Khabat Technical Institute**
Department	**Food Security and Public Health**
Module Name	**Principle of Statistics**
Module Code	
Degree	**Technical Diploma** ■ **Bachler** ☐ **High Diploma** ☐ **Master** ☐ **PhD** ☐
Semester	**Third**
Qualification	**PhD**
Scientific Title	**Lecturer**
ECTS (Credits)	
Module type	**Prerequisite** ☐ **Core** ☐ **Assist.** ■
Weekly hours	**5**
Weekly hours (Theory)	**(2) hr Class** **(3)Total hrs Workload**
Weekly hours (Practical)	**(3) hr Class** **(4.5)Total hrs Workload**
Number of Weeks	12
Lecturer (Theory)	Dr. Neyaz Rashid Mustafa
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Lecturer (Practical)	Dr. Neyaz Rashid Mustafa
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Websites	**https://epuit.net/cbook/portal/login.php**

Course Book

Course Description	1- planning well a project before applying it. 2- Modality of applying an experiment and material required forthe experiment. 3- Analyzing experimental results, concluding and decidingabout the plan and the experiment.
Course objectives	Expertise includes conducting agricultural experiments, collecting data and information and giving recommendations to farmers and authorities to develop agricultural sector.
Student's obligation	1- Attendance of students in classes is necessary, as non-attendance hasnegative effect on student's perception. 2- Writing reports particularly in practical lessons as well as to scientific excursion.
Required Learning Materials	Computer, PowerPoint, Data show, white board. manualpapers and black and white boards. However, they are presented to student via lecturers' portal in university's website.

Evaluation		Task	Weight (Marks)	Due Week	Relevant Learning Outcome
Evaluation		Paper Review	0	0	
	Assignments	Homework	10	1	10%
		Class Activity	6	2	6%
		Report	2	3	2%
		Seminar	2	4	2%
		Essay			
		Project			
	Quiz		10	5	6%
	Lab. Report		10	6	10%
	Midterm Exam		20	7	20%
	Final Exam		40	12	40%
	Total		100		100%

Specific learning outcome:	1 -How to build self-confidence to do any test. 2- Prepare all requirements before doing the test. 3- Attempting of students to plan for every type of tests.
12Course References:	1. تصميم وتحليل التجارب الزراعية , خاشع محمود الراوي , الموصل , مدريرية دار الكتب للطباعة والنشر, 1980. 2. المدخل إلى الإحصاء , خاشع محمود الراوي , الموصل , 1984. 3. تصميم تجارب و تحليلُها , اكرم عثمان اسماعيل , 2000. 4. Principles and Procedures of Statistics: A Biometrical Approach, Robert George Douglas Steel, James Hiram Torrie, David A. Dickey. McGraw-Hill, 1997

Course topics (Theory)	Week	Learning Outcome
Introduction to Statistics: main concepts of Statistics (definitions)	1	
Measures of Dispersion or Variation	2	
Central Tendency (Average)	3	
Graphical and Tabulation methods for Describing Statistical Data	4	
Significant tests (T test + Z test)	5	
Significant tests (Chi square)	6	
Analysis of variance (ANOVA) + F test	7	
The completely Randomized Design (CRD)	8	
The Randomized complete Block Design (RCBD)	9	

Multiple tests	**10**	
Least significant difference (LSD test)	**11**	
Correlation	**12**	
Practical Topics	**Week**	**Learning Outcome**
Introduction to Statistics	**1**	
Examples of Measures of Dispersion or Variation	**2**	
Examples of Central Tendency (Average)	**3**	
Examples of Graphical and Tabulation methods for Describing Statistical Data	**4**	
Examples of Significant tests (T test + Z test)	**5**	
Examples of Significant tests (Chi square)	**6**	
Examples of Analysis of variance (ANOVA) + F test	**7**	
examples of The completely Randomized Design (CRD)	**8**	
examples of Randomized complete block design (RCBD)	**9**	
examples of Multiple tests	**10**	
Examples Least significant difference (LSD test)	**11**	
examples of Correlation	**12**	