

Form (H)
Short course description

Course title: Sampling techniques	Course number and code: STAT 331
Previous course requirement: STAT 215	Language of the course: Arabic
Course level: 5 / Year 3	Effective hours: 3(2+2+0)

Course description

Elements of Sampling. Sources of Errors in Surveys. Simple Random Sampling. Estimation of a Population Mean and Total. Stratified Random Sampling. Estimation of a Population Mean and Total. Selecting the Sample Size. Allocation of the Sample. Systematic Sampling. Estimation of a Population Mean and Total. Selecting the Sample Size. Cluster Sampling. Estimation of a Population Mean and Total. Equal Cluster Sizes. Selecting the Sample Size for Estimating Population Means and Totals. Cluster Sampling Combined with Stratification. Two-Stage Cluster Sampling.

Course objectives

To familiarize students with knowledge of sampling techniques needed for sampling problems.

Select samples to derive information on employment, education, income distribution, and census.

Use the sampling procedures in economic processes to collect economic data.

Use the sampling procedures in agriculture for crop estimation and forecasting.

To develop students' awareness for the relevance of statistics to other areas of medical, agriculture, and environmental issues.

Learning outcomes (understanding, knowledge, and intellectual and scientific skills)

After studying this course, the student is expected to be able to:

Develop of awareness and importance of using samples.

Conducting sample surveys.

Applying sample techniques.

Using computers for analyzing data.

Textbook adopted and supporting references

Title of the book	Author's name	Publisher's name	Date of publication
Elementary survey sampling	Richard L. Scheaffer, III William Mendenhall, R. Lyman Ott, Kenneth G. Gerow	Cengage Learning	2011
Introduction to statistical sampling	AbouAhmoua & Radi, Hendi	AlMareekh	1415
Introduction to statistical sampling methods	Al-siad G. and Galal, M		1990
Statistical sampling techniques	Cochran, W.	John wiley & Sons	1977