

Introduction

The department of Statistics and Actuarial Science welcomes you to a conducive and inspiring learning environment. The Department is one of eight departments in the School of Pure and Applied Sciences at Kenyatta University.

Programmes and Duration

The Department offers courses at both undergraduate and postgraduate levels.

Postgraduate Programmes

The programme takes at least two academic years and includes coursework, examination and thesis or project.

1. M.Sc. Programme

Depending on the area students majored in at undergraduate level, a student can opt for any of the following programmes at the Msc level:

i) M Sc. in Statistics

Core Units

SST 800: Design of Experiment I
SST 801: Design of Experiment II
SST 802: Multivariate Analysis I
SST 803: Multivariate Analysis II
SST 804: Sample Surveys
SST 805: Theory of Estimation
SST 806: Hypothesis Testing
SST 807: Stochastic Processes I

600 Level Units

Core Unit

SST 829: Project in Statistics (two units)

Elective Units

SST 808: Stochastic Processes II
SST 809: Non-parametric Inference
SST 810: Design of Experiment III
SST 811: Statistical Decision and Game Theory
SST 812: Probability Theory
SST 813: Ranking and Selection Procedures
SST 814: Time Series Analysis
SST 815: Statistical Modeling
SST 816: Regression Analysis
SST 817: Information Theory
SST 818: Order Statistics
SST 819: Discrete Multivariate Analysis
SST 820: Demographic Techniques
SST 821: Statistical Genetics
SST 822: Contingency Tables Analysis
SST 823: Survival Analysis
SST 824: Clinical Trials

2. M Sc. in Biostatistics

Core Units

SST 860: Biostatistical methods I
SST 861: Biostatistical methods II
SST 862: Introduction to Probability Theory
SST 863: Statistical Inference I
SST 864: Applied General Linear Models
SST 827: Contingency Table Analysis

Elective Units

SST 866: Observational Studies
SST 867: Sampling Applications
SST 868: Statistical Methods for Epidemiology
SST 840: Statistical Computing
SST 821: Statistical Genetics
SST 823: Survival Analysis
SST 824: Clinical Trials
SST 870: Applied Multivariate Methods
SST 871: Statistical Methods in Biological Assays
SST 872: Statistical Inference II
SST 873: Stochastic Processes in Biostatistics

3. M Sc. in Social Statistics

There will be sixteen (16) units to be offered as given below:

All the units are core

SST 830: Survey Design Methods
SST 831: Contemporary Demographic Issues
SST 832: Survey Data Analysis
SST 833: Sample Survey Theory
SST 834: Social Research Methods
SST 835: Multivariate Data Analysis I
SST 836: Statistical Modelling
SST 837: Multivariate Data Analysis II
SST 838: Demographic Methods
SST 839: Observational Studies
SST 840: Statistical Computing
SST 841: Applied Contingency Table Analysis
SST 842: Analysis of Repeated Measures.
SST 823: Survival Analysis
SST 849: Project in Social Statistics
(Equivalent to two units)

- ❖ *For those doing by Course Work and Project, a total of 14 units (course work) and a Project equivalent to two units.*
- ❖ *For those doing by Course Work and Thesis, will take a total of 10-12 units (course work) and a Thesis equivalent to 6 units.*

DOCTOR OF PHILOSOPHY (Ph.D)

SST 900: Ph.D thesis in Statistics
SST 910: Ph.D thesis in Biostatistics
SST 920: Ph.D thesis in Social Statistics