

INSTITUT SUPERIEUR DE TECHNOLOGIES

Sarl au capital de 10 000 000

IFU 00003441L CMMBF OUA 2002 B00316/CNSS n°3111OR

Autorisation n°204/2000/MESSRS/DGESRS/SPdu 14 mars 2001

Agréé par le FAFPA (ministère de l'emploi)

Diplômes reconnus par le CAMES

Vingt (20) ans au service de la formation des ressources humaines

www.istburkina.com; Email : infos@isburkina.com

Master of Statistic and Applied Science in Economics

TITLE OF PROGRAMME

The programme shall be master of statistic and applied science in economics **MEng. (SASE)**

2 PREAMBLE

2.1 Background

Students who earn a Master of Science (MS) in Applied Economics and Statistics (AES) learn to apply economic theory, design experiments or surveys, estimate econometric models, and test hypotheses with inferential statistics to analyze human behavior, business practice, or government policy. The behavior, practice, or policy might relate to agriculture, banks, credit markets, environmental or natural resource management, forestry, health care, insurance, marketing, property rights, regional economic growth, regulation, stock markets, sports businesses, or sustainable development. The Department of Applied Economics and Statistics offers graduate master's programs focused on the study of quantitative economics, international agricultural trade, economic development and resource economics, marketing and policy.

2.2 Justification

The Master of Statistics and Applied Science in Economics provide students with the necessary background to seek employment in statistics, data sciences or a related field. The degree programs provide training in applied statistics and consulting, as well as in the theory of statistics pertinent to applications. In addition, students are required to study an approved area outside of statistics at the graduate level. Possible areas include numerical analysis, biostatistics, education, economics, sociology, psychology, biology, business, bioinformatics, computer science, mathematical finance, and many others.

2.3 Target Group

The targeted group includes holders of:

Applicants must have completed a UTS recognized bachelor's degree, or an equivalent or higher qualification, or submitted other evidence of general and professional qualifications that demonstrates potential to pursue graduate studies. Bachelor's in Engineering and other related Science and Technology fields. It is a requirement that the bachelor's degree be in engineering or the natural and physical sciences, with no more than 25 per cent of subjects failed

3. Programme Objectives

3.1. General Objectives

The Master of Science in Economics is a full-time program redesigned primarily for students who need adequate preparation for a doctoral degree in Economics in a local or foreign university. The program is also appropriate for those who are teaching or plan to teach Economics at the graduate or advance undergraduate level or who are professionals in government and private research institutions. The training is more rigorous and there is a greater focus on the underlying theory rather than on applications. Students are armed at the outset with the mathematical and statistical tools used by economists in theoretical and applied research.

3.2. Specific Objectives

The programme shall be master of statistic and applied science in economics is ideal for those seeking careers in data analytics, data consulting, and forecasting. The program, available both on-campus and online, gives you the flexibility to continue your career while earning your master's.

- **Duration of the Programme:**

This course is offered on a Two-year (Four semesters), full-time or online.

Programme Structure

Courses codes	Courses Names	Credit Units
	Year one	
	Semester one	
RM M01	Advanced research methods	3
OB M03	Organization Behavior	3
CS M02	Communication Skills	3
ESD M04	Entrepreneurship and Development	3
MBEC 2632	Business Ethics and Corporate Governance	3
MSM 9450	Strategic Management	3
MAE 421	Academic Essay	3
MSASE 110	Production Economics	3
MSASE111	Applied Econometrics	3
	Semester Two	
MSASE120	Economics of Consumer Demand	3
MSASE121	Econometrics I	3
MSASE122	Public Policy Economics	3
MSASE123	benefit-cost analysis	3
MSASE124	economic or regional development	3

MSASE125	commodities and futures	3
MSASE126	mathematical economics	3
MSASE127	public finance, anti-trust policy and regulation	3
MSASE128	monetary economics,	3
MSASE129	natural resource economics,	3
		60
	Year Two	
	Semester One	
MSASE 416	Econometrics II	5
MSASE 417	Microeconomics	5
MSASE 418	spatial statistics	5
MSASE220	Intermediate macroeconomics	5
MSASE 421	Advanced macroeconomics	5
		60
	Semester Two	
MSASE 429	Internship	10
MSASE 430	Thesis	20
		60
GCU		120