

NATIONAL DIPLOMA: ECONOMIC MANAGEMENT ANALYSIS

Qualification code: NDEB03 - NQF Level 6

Campus where offered: Ga-Rankuwa Campus (day classes)
Last year of new intake: 2019
Teach-out (phase-out) date: 31 December 2023

Students registered for this qualification should complete their studies according to the teach-out date prescribed for the qualification, subject to the stipulations of Regulation 3.1.11 and 3.1.13 in the Students' Rules and Regulations.

Information on phased-out programmes can be obtained from the TUT website, www.tut.ac.za.

CURRICULUM

Consult the 2019 Faculty Prospectus for the full contents of the qualification.

FIRST YEAR (Last year to be offered: 2021)

CODE	SUBJECT	CREDIT	PREREQUISITE SUBJECT(S)
FIRST SEMESTER			
ALE10AT	Applied Economics IA	(0,100)	
ECN12AT	Economics IA	(0,100)	
EUC10AT	End-User Computing IA	(0,100)	
FAC11AT	Financial Accounting IA	(0,100)	
QTQ10AT	Quantitative Techniques IA	(0,100)	
TOTAL CREDITS FOR THE SEMESTER:		0,500	
SECOND SEMESTER			
ALE10BT	Applied Economics IB	(0,100)	
ECN12BT	Economics IB	(0,100)	
EUC10BT	End-User Computing IB	(0,100)	
FAC11BT	Financial Accounting IB	(0,100)	
QTQ10BT	Quantitative Techniques IB	(0,100)	
TOTAL CREDITS FOR THE SEMESTER:		0,500	
TOTAL CREDITS FOR THE FIRST YEAR:		1,000	

SECOND YEAR (Last year to be offered: 2022)

CODE	SUBJECT	CREDIT	PREREQUISITE SUBJECT(S)
FIRST SEMESTER			
ALE20AT	Applied Economics IIA	(0,125)	Applied Economics IA Applied Economics IB
ECN21AT	Economics IIA	(0,125)	Economics IA Economics IB
FMN21AT	Financial Management IIA	(0,125)	Financial Accounting IA Financial Accounting IB
STF20AT	Statistics for Economists IIA	(0,125)	Quantitative Techniques IA Quantitative Techniques IB
TOTAL CREDITS FOR THE SEMESTER:		0,500	



SECOND SEMESTER

ALE20BT	Applied Economics IIB	(0,125)	Applied Economics IA Applied Economics IB
ECN21BT	Economics IIB	(0,125)	Economics IA Economics IB
FMN21BT	Financial Management IIB	(0,125)	Financial Accounting IA Financial Accounting IB
STF20BT	Statistics for Economists IIB	(0,125)	Quantitative Techniques IA Quantitative Techniques IB
TOTAL CREDITS FOR THE SEMESTER:		0,500	
TOTAL CREDITS FOR THE SECOND YEAR:		1,000	

THIRD YEAR (Last year to be offered: 2023)

CODE	SUBJECT	CREDIT	PREREQUISITE SUBJECT(S)
CEN160T	Communication I	(0,200)	

FIRST SEMESTER

ALE30AT	Applied Economics IIIA	(0,100)	Applied Economics IIA Applied Economics IIB
ECN31AT	Economics IIIA	(0,100)	Economics IIA Economics IIB
EOC30AT	Econometrics IIIA	(0,100)	Statistics for Economists IIA Statistics for Economists IIB
FMN30AT	Financial Management IIIA	(0,100)	Financial Management IIA Financial Management IIB

SECOND SEMESTER

ALE30BT	Applied Economics IIIB	(0,100)	Applied Economics IIA Applied Economics IIB
ECN31BT	Economics IIIB	(0,100)	Economics IIA Economics IIB
EOC30BT	Econometrics IIIB	(0,100)	Econometrics IIIA Statistics for Economists IIA Statistics for Economists IIB
FMN30BT	Financial Management IIIB	(0,100)	Financial Management IIA Financial Management IIB

TOTAL CREDITS FOR THE THIRD YEAR: **1,000**

TOTAL CREDITS FOR THE QUALIFICATION: **3,000**

SUBJECT INFORMATION (OVERVIEW OF SYLLABUS)

The syllabus content is subject to change to accommodate industry changes. Please note that a more detailed syllabus is available at the department or in the study guide that is applicable to a particular subject. At time of publication, the syllabus content was defined as follows:



A**APPLIED ECONOMICS IA (ALE10AT) 1 X 3-HOUR PAPER**
(Subject custodian: Department of Economics)

Rules and regulations that govern financial markets in South Africa. Themes covered in this subject include: overview of the local and international financial systems, the South African Reserve Bank and commercial banks in South Africa, microfinance institutions, regulation of the financial markets, insurance industries, retirement funds and investment institutions in South Africa. (Total tuition time: ± 40 hours)

APPLIED ECONOMICS IB (ALE10BT) 1 X 3-HOUR PAPER
(Subject custodian: Department of Economics)

A comprehensive overview of various aspects of South African financial markets (i.e. money, bonds, equity, foreign exchange, commodities and credit markets) with introduction of applied terminologies, technicalities and theories. (Total tuition time: ± 60 hours)

APPLIED ECONOMICS IIA (ALE20AT) 1 X 3-HOUR PAPER
(Subject custodian: Department of Economics)

An in depth analysis of various types of financial markets and their applications. Themes covered in this subject include: the role of financial markets and institutions, interest rate determination and its structures, money markets, bond markets and valuation and risk of bonds and mortgage markets. (Total tuition time: ± 60 hours)

APPLIED ECONOMICS IIB (ALE20BT) 1 X 3-HOUR PAPER
(Subject custodian: Department of Economics)

An in depth analysis of financial markets and their applications such as equity markets, derivatives, security markets, and applications on economics of financial markets. (Total tuition time: ± 60 hours)

APPLIED ECONOMICS IIIA (ALE30AT) 1 X 3-HOUR PAPER
(Subject custodian: Department of Economics)

This subject enables students to analyse key development issues affecting developing and less developed countries. The core content of this subject includes topics on human development, comparative economic development, classic and contemporary growth models, poverty issues and inequality, causes, consequences, and controversies surrounding economic development, urbanisation and the role of human capital in economic development. (Total tuition time: ± 60 hours)

APPLIED ECONOMICS IIIB (ALE30BT) 1 X 3-HOUR PAPER
(Subject custodian: Department of Economics)

This subject takes a multidisciplinary approach to address development issues facing developing countries. It covers a range of issues including agricultural transformation and rural development; environment and development; policies in international trade theories and development strategies (like balance of payments, debt, financial crisis, and stabilisation policies); topics on controversies and opportunities in foreign finance, investment, aid and conflicts and the role of finance and fiscal policy on development issues. It also covers an introduction to economic indicators, their calculation and measurements. (Total tuition time: ± 60 hours)

C**COMMUNICATION I (CEN160T) 1 X 3-HOUR PAPER**
(Subject custodian: Department of Auditing)

Theory, methods and principles of communication, language acts of the individual, language acts in business and industry, and in a group and in society. Further language acts in business and industry, and in a group and in society. (Total tuition time: ± 60 hours)

E**ECONOMETRICS IIIA (EOC30AT) 1 X 3-HOUR PAPER**
(Subject custodian: Department of Economics)

Introduction to Econometrics, two-variable regression analysis: some basic ideas, two-variable regression model: the problem of estimation, normality assumption: classical, Normal Linear Regression Model (CNLRM), interval estimation and hypothesis testing, multiple regression analysis: the problem of estimation, multiple regression analysis: the problem of inference. (Total tuition time: ± 60 hours)



ECONOMETRICS IIIB (EOC30BT)**1 X 3-HOUR PAPER****(Subject custodian: Department of Economics)**

Revision of introductory econometrics, multicollinearity in regression models, Heteroscedasticity in regression models, autocorrelation in regression models, model diagnostic testing and data manipulation; T-test, Chi square test, F-test, Wald test, Chow test, Unit roots, detrending, normalisation. Basic econometric modelling techniques; ANOVA and ANCOVA LPM, LOGIT, PROBIT and TOBIT models. (Total tuition time: ± 60 hours)

ECONOMICS IA (ECN12AT)**1 X 3-HOUR PAPER****(Subject custodian: Department of Economics)**

An insight into the principles and applications of microeconomics. The core content for this subject includes the problem of scarcity, choice, elasticity, demand and supply utility, efficiency and equity, production and costs, price determination under different market structures: perfect competition, imperfect competition as well as monopoly. Basic calculus and algebra are introduced. (Total tuition time: ± 40 hours)

ECONOMICS IB (ECN12BT)**1 X 3-HOUR PAPER****(Subject custodian: Department of Economics)**

An insight into the principles and applications of macroeconomics. The core content for this subject includes measuring macroeconomic performance of the economy, simple Keynesian model, money and banking, fiscal and monetary policy, exchange rates and the balance of payments and introduction to international trade. (Total tuition time: ± 40 hours)

ECONOMICS IIA (ECN21AT)**1 X 3-HOUR PAPER****(Subject custodian: Department of Economics)**

The objective of this subject is to provide practical analysis of the consumer and producer's behaviour and utility and profit maximisation by the two economic, different market structures in which producers operate (perfect competitive, monopoly, monopolistic markets are presented and analysed in detail, introduction to simple calculus is used to illustrate certain microeconomic principles. (Total tuition time: ± 40 hours)

ECONOMICS IIB (ECN21BT)**1 X 3-HOUR PAPER****(Subject custodian: Department of Economics)**

The objective of this subject is to analyse and discuss the main macroeconomic objectives (economic growth, price stability, full employment) with reference to monetary and fiscal policies. Analysis of macroeconomics models such as Classical, Keynesian and aggregate demand and supply as well foreign exchange models. (Total tuition time: ± 40 hours)

ECONOMICS IIIA (ECN31AT)**1 X 3-HOUR PAPER****(Subject custodian: Department of Economics)**

This subject will equip students with the ability to understand and analyse the fiscal policy, tax (income tax, tax efficiency and tax reform, tax equity), equity and social welfare issues within the context of South African economy and other developing countries. Students will be able to describe, evaluate and advise on the role of government expenditures and tax revenue sources. Students will also be able to critically contend in favour or against tax policies; and public economics assumptions and theories in the South African context applying South African laws and discretion when applying and discussing fiscal policies. (Total tuition time: ± 60 hours)

ECONOMICS IIIB (ECN31BT)**1 X 3-HOUR PAPER****(Subject custodian: Department of Economics)**

This subject will equip students with the ability to understand and analyse different trade theories: Ricardian model, Heckscher-Ohlin model, Standard Trade model, external and internal economies of scale, firms and competition in the global economy, effects of globalisation and internationalisation, price levels and output in the short and long run, exchange and interest rates determination and foreign exchange market and instruments of Trade Policy. (Total tuition time: ± 60 hours)

END-USER COMPUTING IA (EUC10AT)**CONTINUOUS ASSESSMENT****(Subject custodian: End User Computing Unit)**

Students have to acquire theoretical knowledge (computing fundamentals) and practical skills as end-users in operating systems and MS Office Suite applications (MS Word, MS Excel and MS PowerPoint) on an introductory level. Students will do online and computer-based tests. The modules are mapped with SAQA and IC3 Essential Skills for Digital Literacy (international certification). (Total tuition time: ± 40 hours)



END-USER COMPUTING IB (EUC10BT)**CONTINUOUS ASSESSMENT****(Subject custodian: End User Computing Unit)**

Students have to acquire practical skills as end-users in MS Office Suite applications (MS Excel Intermediate and MS Access Essentials), graphic design and dealing with the Internet, networks and how to search for information. Students will do online and computer-based tests. The modules are mapped with SAQA and IC3 Essential Skills for Digital Literacy (international certification). (Total tuition time: ± 30 hours)

F**FINANCIAL ACCOUNTING IA (FAC11AT)****1 X 3-HOUR PAPER****(Subject custodian: Department of Accounting)**

The basic introductory elements of accounting, the application of Generally Accepted Accounting Practice (GAAP) in the business world, constructive interpretation and application of accounting information. (Total tuition time: ± 60 hours)

FINANCIAL ACCOUNTING IB (FAC11BT)**1 X 3-HOUR PAPER****(Subject custodian: Department of Accounting)**

The principles of Generally Accepted Accounting Practice (GAAP). The different undertakings. The various forms of financial reporting for the different undertakings. (Total tuition time: ± 60 hours)

FINANCIAL MANAGEMENT IIA (FMN21AT)**1 X 3-HOUR PAPER****(Subject custodian: Department of Finance and Investment)**

Introduction to financial management, financial statement analysis and time-value of money. Introduction to risk and return for stand-alone financial assets. (Total tuition time: ± 40 hours)

FINANCIAL MANAGEMENT IIB (FMN21BT)**1 X 3-HOUR PAPER****(Subject custodian: Department of Finance and Investment)**

Current asset management, current liability management, leverage and capital structure, cash flow determination. (Total tuition time: ± 40 hours)

FINANCIAL MANAGEMENT IIIA (FMN30AT)**1 X 3-HOUR PAPER****(Subject custodian: Department of Finance and Investment)**

Cash management, advanced time-value of money, introduction to fixed-interest securities and introduction to portfolio risk. (Total tuition time: ± 60 hours)

FINANCIAL MANAGEMENT IIIB (FMN30BT)**1 X 3-HOUR PAPER****(Subject custodian: Department of Finance and Investment)**

Determining the cost of capital, capital budgeting techniques, security valuation, dividend policy. (Total tuition time: ± 60 hours)

Q**QUANTITATIVE TECHNIQUES IA (QTQ10AT)****1 X 3-HOUR PAPER****(Subject custodian: Department of Mathematics and Statistics)**

Basic mathematics (numbers, fractions, exponents, scientific notation and summation notation), percentages, ratios, proportions and algebra. Financial calculations: interests and annuities, graphing, introduction to business statistics, visual presentation of data, measures of central location and of dispersion, sampling, and index numbers. (Total tuition time: ± 60 hours)

QUANTITATIVE TECHNIQUES IB (QTQ10BT)**1 X 3-HOUR PAPER****(Subject custodian: Department of Mathematics and Statistics)**

Elementary probabilities and counting rules, probability functions and the binomial distribution, normal distributions and confidence intervals, correlation analysis. Regression analysis, time-series and trend analysis, hypothesis testing, and analysis of frequency data. (Total tuition time: ± 60 hours)

S**STATISTICS FOR ECONOMISTS IIA (STF20AT)****PRACTICAL EXAMINATION****(Subject custodian: Department of Mathematics and Statistics)**

Decision-making models. Numerical and mathematical concepts. Index numbers. Descriptive statistics. Simple regression and correlation. (Total tuition time: ± 60 hours)



(Subject custodian: Department of Mathematics and Statistics)

Probability distributions. Estimating from samples and hypothesis testing. Analysis of variance and experimental design. Multiple regression. Time-series analysis and forecasting. Quality control. (Total tuition time: \pm 60 hours)

