## Study in the field of

# **NESS ANALYTICS**



## **BUSINESS ANALYSTS are able to...**



- Apply data analytics skills to function at highly competitive levels;
- Make decisions based on data-driven evidence;
- Analyse and manage business functions and processes;
- Gain insights from data analysis that inform decision-making;
- Using decision and mathematical modelling tools;
- Present data and information using visualisation techniques and software.

Study

Undergraduate - BCom (Management Sciences) Focal`area: Business Analytics



### **Business Analytics 214 & 244**

Modeling with linear programming, graphical methods, spreadsheet solutions, sensitivity and applications using spreadsheets. Decision modelling: Basic concepts, multi-criterion decision analysis, decision trees, utility theory, analytical hierarchy process. Types of social networks, graph visualization, network relationships, network evolution and marketing research.

Prerequisite subjects: Statistics 186, Probability theory and Statistics 114 or 144, or Statistical methods 176



#### **Business Analytics 318 & 348**



Basic web page scripting and web page analysis, introduction to and technologies required for large data set-analytics, analysis of extracted data, considerations in data warehousing and data stream processing and analytics. Data and information visualization: Identify data types, meta data descriptions, applying appropriate charts, graphs or mapping techniques. Quality control, performance measurement and performance management: control cards, dashboards, balanced scorecards, Six Sigma. Business report writing. Applications using applicable software.

Prerequisite subjects: Statistics 186, Probability theory and Statistics 114 or 144, or Statistical methods 176





Operations researchers use analytics and optimisation techniques to make a difference in the world. We apply maths to complex problems to find meaningful, data-driven insights and improvements. Operations research: the science of better, evidence-based decision making.

It is possible to bridge into operations research from business analytics by means of online modules in mathematics and linear programming.



Business intelligence, consulting, advanced analytics: Business Modelling Associates, McKinsey & Company, PBT Group, OpSI,

Pivot Sciences, XTranda, Spatial Edge. Retail: Takealot, PEP, Shoprite, Pepkor

Banks: Capitec Bank, Rand Merchant Bank, First National Bank, Commonwealth Bank

Researcher / lecturer: Universities (local / abroad), CSIR

Other exciting alternative industries: PIC Solutions, WiGroup, Broadreach, Sasol, RCS Group, DXC Technology, f(x) Software

Development, Discovery, Medscheme













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