



# Universiteit van Pretoria Jaarboek 2018

## Ekonometrie 814 (EKT 814)

<b>Kwalifikasie</b>	Nagraads
<b>Fakulteit</b>	<a href="#">Fakulteit Ekonomiese en Bestuurswetenskappe</a>
<b>Modulekrediete</b>	10.00
<b>Programme</b>	<a href="#">MCom Ekonometrie (Gedoseer)</a> <a href="#">MCom Ekonomie (Gedoseer)</a>
<b>Voorvereistes</b>	Slegs vir studente in toepaslike program
<b>Onderrigtaal</b>	Module word in Engels aangebied
<b>Departement</b>	Ekonomie
<b>Aanbiedingstydperk</b>	Semester 1 of Semester 2

### Module-inhoud

\*Hierdie inligting is slegs in Engels beskikbaar.

In this module, “panel data” refers to the pooling of observations on a cross-section of countries, households, firms, etc. over a number of time periods. We use panel data techniques for example to control for individual heterogeneity or to study the dynamics of adjustment. Panel data allows for more informative results, more variability, more degrees of freedom and more efficiency. This module focuses on statistical theory and empirical estimation, interpretation and evaluation of economic relationships, within a panel data context. The module covers both techniques applicable to stationary and non-stationary panel data sets, and begins with an introduction to one-way error component models (either including individual-specific or period-specific (time) effects), followed by two-way error component models (including individual-specific and time effects simultaneously). Estimation techniques include fixed effects (LSDV or “Within” estimation) and random effects estimation. Hypothesis testing includes tests for poolability (pooled vs. individual regressions), tests for fixed effects, random effects, and specification (exogeneity of the X-regressors). It also includes various tests for serial correlation and heteroscedasticity and the correction thereof. The section on stationary panel data techniques concludes with a discussion of seemingly unrelated regression (SUR) models. In the non-stationary panel data section we discuss unit root testing in the panel context, estimation of non-stationary panels and tests for co integration.

Die inligting wat hier verskyn, is onderhewig aan verandering en kan na die publikasie van hierdie inligting gewysig word.. Die [Algemene Regulasies \(G Regulasies\)](#) is op alle fakulteite van die Universiteit van Pretoria van toepassing. Dit word vereis dat elke student volkome vertrouwd met hierdie regulasies sowel as met die inligting vervat in die [Algemene Reëls](#) sal wees. Onkunde betreffende hierdie regulasies en reëls sal nie as ‘n verskoning by oortreding daarvan aangebied kan word nie.