

University of Pretoria Yearbook 2017

Advanced production economics 711 (LEK 711)

Qualification Postgraduate

Faculty [Faculty of Natural and Agricultural Sciences](#)

Module credits 15.00

Programmes [BComHons Agricultural Economics](#)

Prerequisites EKT 713 and MIE 780

Contact time 1 practical per week, 1 lecture per week

Language of tuition Module is presented in English

Academic organisation Agric Econ, Ext + Rural Dev

Period of presentation Semester 2

Module content

Advanced production economics

(a) Primal approach: Structure of the production technology and properties, elasticity of substitution, homogeneity and returns to scale, separability, estimation of technology parameters and testing hypothesis about properties, functional forms.

(b) Normative supply analysis: Applications of linear programming to farm supply decisions.

(c) Dual approach: The profit function, the cost function, duality and technology structure, estimation and hypothesis testing.

(d) Positive supply analysis: Econometric specification of output supply and factor demand, restrictions from technology structure (homogeneity, etc.), aggregate supply analysis.

(e) Risk and uncertainty: Mean-variance analysis applications in agricultural production, stochastic dominance; MOTAD and quadratic programming.

The information published here is subject to change and may be amended after the publication of this information. The [General Regulations \(G Regulations\)](#) apply to all faculties of the University of Pretoria. It is expected of students to familiarise themselves well with these regulations as well as with the information contained in the [General Rules](#) section. Ignorance concerning these regulations and rules will not be accepted as an excuse for any transgression.