

Practical Course on Market Microstructure in R

Unit Title	Practical Course on Market Microstructure in R		
Level of Study	MA		
Credit Value		ECTS Value	
Home Department	Mathematical methods in economics		
Home Faculty	Economics		
Unit Co-ordinator			
Key Words	Market microstructure, Continuous Double Auction, R, Liquidity, Stylized facts		
Brief Summary	This is a practical unit that enables students to synthesise theoretical knowledge on market microstructure with work on high-frequency data and asset pricing skills using R.		
Indicative Content	<p>Basic methods working with R language</p> <p>Data management in R</p> <p>Financial data sources in R</p> <p>Working with L1 and L2 data in R</p> <p>Working with Tradelog and Orderlog data in R</p> <p>R packages for working with microstructure data</p> <p>Models of Dealer Market</p> <p>Models of Continuous Double Auction</p> <p>Liquidity estimation in R</p> <p>Detection of stylized facts</p> <p>Empirical order flow characteristics</p> <p>Transaction cost analysis for equity portfolio in R</p>		