Institiúid Teicneolaíochta Chorcaí
Cork Institute of Technology

STAT9005 - *Time Series and Factor Analysis*

CRN 26645

Contact: sean.lacey@cit.ie

This module provides methods to develop and critically evaluate structural equation modelling and time series models.

Among the many topics covered are:

- **Factor analysis**: Data screening, Exploratory Factor Analysis (EFA), Confirmatory Factor Analysis (CFA), Structural Equation Modelling (SEM);
- **Time series analysis:** Decomposition (trend, periodicity, seasonality, white noise), Smoothing Techniques, Autoregressive (AR), Moving Average (MA) and mixed (ARIMA) models.
- Use of IBM **SPSS** Statistics and IBM SPSS Amos to generate and analyse models.