MODULE ONE: TIME SERIES ECONOMETRICS



Part One

graphs, and visualizations. of autocorrelation 4- Hodrick-Prescott Trend and Cyclical Decomposition. HAC-

Duartion: 28 Hours / 6-7 Weeks

- 1- Time series econometrics: preparing dataset, data description,
- 2- Stationarity and model selection criteria: Akaike and Schwarz, testing unit root, different types of stationarity, and lag operators 3- Stationary models: ARMA and ARIMA models and the detection
- 5- Heteroskedastic and Autocorrelated Consistent Estimator -

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Part Two

1- Volatility models: ARCH and GARCH models model and ARDL

3methodologies for cointegration, roots and ranks.

Duartion: 28 Hours / 6-7 Weeks

- 2- Non-stationary and cointegrated models: Error correction
 - Johansen test, Engle & Granger, and Bound Testing

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Part Three

- 1. VAR family: VAR, VECM, and VARX
- 2. Structural VARs
- Impulse responses, historical and variance decompositions In and out-sample forecasting
- 3. 4.
- Introduction to Mixed Data Sampling (MIDAS) Methods 5-

Duartion: 28 Hours / 6-7 Weeks