

Math 4425 Introductory Time Series

Syllabus – Spring 2023-2024

Course Home Page

<http://www.math.ust.hk/~maling/>

Instructor

Prof Shiqing Ling

Contact Details: Rm 3460; phone: 2358-7459; e-mail: maling@ust.hk

Office Hour: Tu., 4 to 6 pm.

Teaching Assistants

KAZOVSKAIA Anastasiia

Contact Details: Rm 3214; phone: 23587468 E-mail: akazovskaia@connect.ust.hk

Office Hour: Wed, 4 to 6 pm

Meeting Time and Venue

TuTh 10:30AM - 11:50AM/Rm 2610, Lift 31-32 (26)

Course Description

Duration: one semester. Credits: 3 units.

Prerequisites: MATH 3423 and MATH 3424

Key topics: ACF, PACF, AR model, ARMA model, ARIMA model, seasonal time series models, estimation, diagnostic checking of models.

Assessment Scheme

<u>Assessment</u>	<u>Assessing Course ILOs</u>
Homework: 15 %.	1,2
Midterm Exams: 15 %.	1
Final Exam: 50 %.	1,2
project 20%,	

Student Learning Resources

Lecture Notes:

Lecture notes (All exams and homework problems will be based on the contents covered in lectures.)

Textbooks/ References:

1. William W. S. Wei (2006): *Time Series Analysis: Univariate and Multivariate Methods*, Addison-Wesley.
2. Taylor Stephen (1986): *Modelling Financial Time Series* John Wiley&Sons
3. Walter Enders (1995): *Applied Econometric Time Series* John Wiley&Sons.

