MERC Area: Courses from 26th April to 18th June, 2021

- **Stochastic Differential Equations and Singular Stochastic Control**
  Lecturer: Prof. Tiziano De Angelis, Prof. Maria Chiarolla
  Teaching mode: online | Hours: 24
  Team code: **pxmnigv**

- **Fundamentals of Natural Hazard Forecasting**
  Lecturer: Prof. Warner Marzocchi
  Teaching mode: online | Hours: 14
  Team code: **4bvahv0**

- **Risk Analysis, Assessment and Management: Why, What and How**
  Lecturer: Prof. Hans Pasman
  Teaching mode: online | Hours: 6
  Team code: **mbi149v**

- **Short-Term Forecasting of Earthquakes, Eruptions, and Heavy Hydrogeological Events**
  Teaching mode: online | Hours: 14
  Team code: **9yzl21x**
  - Part I: Short-Term Earthquake and Eruption Forecasting
    Lecturer: Prof. Warner Marzocchi
    Hours: 6
  - Part II: Short-Term Forecasting of Heavy Hydrological Events
    Lecturer: Prof. Gianfranco Urciuoli
    Hours: 8

- **An Introduction to (Multi-Agent) Reinforcement Learning for Complex Systems Analysis and Data Driven Control**
  Teaching mode: online | Hours: 12
  Team code: **albwrdr**
  - Course: An Introduction to (Multi-Agent) Reinforcement Learning for Complex Systems Analysis
    Lecturer: Prof. Mirco Musolesi
    Hours: 6
  - Seminars: An Introduction to Data Driven Control
    Prof. Giovanni Russo
    Hours: 6

- **Complex Dynamics of Human Behaviour: Theory, Modelling and Analysis**
  Lecturer: Prof. Michael Richardson
  Teaching mode: online | Hours: 6
  Team code: **m48jwz7**

- **Earthquake Early Warning Systems: Concept, Methods and Technologies**
  Lecturer: Prof. Aldo Zollo
  Teaching mode: online | Hours: 12
  Team code: **rwz542q**