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Faculty of Health, Science and Technology  
Mathematics

## Reading List

*Mean Field Games: Theory and Applications*

Valid from spring semester 2023

**Course Code:** 7MAT007  
**Course Title:** *Mean Field Games: Theory and Applications*  
*Mean Field Games: Teori och tillämpningar*  
**Subject:** Mathematics  
**Credits:** 7.5 ECTS  
**Degree Level:** Doctoral

### Reading List

- J.-M- Lasry, P.-L. Lions, *Mean field games*, Japanese Journal of Mathematics, vol. 2, pp. 229-260 (2007)
- F. Delarue (Editor), *Mean Field Games : AMS Short Course, Mean Field Games, Agent Based Models to Nash Equilibria*, American Mathematical Society, Providence, Rhodes Island, 2021
- P. Cardaliaguet, *Notes on Mean Field Games*, P.-L. Lions's College de France seminars, 2013  
(<https://www.ceremade.dauphine.fr/~cardaliaguet/MFG20130420.pdf>)
- L. Ryzhik, *Notes on Mean Field Games*, Stanford University, 2018  
(<https://math.stanford.edu/~ryzhik/STANFORD/MEAN-FIELD-GAMES/notes-mean-field.pdf>)

### Approval

Approved by the Faculty of Health, Science and Technology, 22 March 2023.