



## Master's programme in Mathematics and Statistics: Mathematics or Applied mathematics

### Plan for first 60 cr.

#### 1 Basic Information

Name of student:

E-mail:

Phone:

Specialization of the student (names in contact persons in brackets):

- Mathematics
  - Analysis (Hans-Olav Tylli, Xiao Zhong)
  - Geometry, algebra and topology (Erik Elfving, Pekka Pankka)
  - Mathematical physics (Antti Kupiainen, Jani Lukkarinen)
  - Mathematical logic (Juha Kontinen)
- Applied mathematics
  - Mathematics of imaging (Samuli Siltanen)
  - Probabilistic modelling (Jarno Vanhatalo)
  - Mathematical modelling (Mats Gyllenberg, Eva Kisdi)
  - Applied analysis (Matti Lassas, Petri Ola)
  - Stochastics (Konstantin Izyrov)
  - Insurance and financial mathematics (Dario Gasbarra, Jaakko Lehtomaa)

For studies in statistics, please contact Sangita Kulathinal or Petteri Piironen and in Social statistics Mikko Myrskylä.



**Name of the personal teacher:**

**Contact information:**

**Next date to contact the personal teacher to update the plan:**

## **2 Plan for first 60 credits of courses:**

Core courses (10 – 25 cr need to be chosen):

- Functional analysis (10 cr)
- Real analysis I (5 cr)
- Topology II (10 cr)
- Mathematical logic (10 cr)
- Mathematical modelling (10 cr)
- Introduction to mathematical biology (10 cr)
- Probability theory I and II (5 cr + 5 cr)
- Computational statistics I (5 cr)
- Generalized linear models II (5 cr)

Recommended or mandatory courses in the specialization :

Bachelor level courses in mathematics to be included in master studies:

Other master level courses in mathematics or statistics:

Courses in other subjects (e.g. computer science, physics):

## **3 Preliminary Plan for courses after 60 credits:**

- Master thesis seminar, 5 cr.
- Master thesis, 30 cr.
- Additional courses in Master studies (25 cr.):



#### **4 Plan for the Schedule for first 60 cr.**

Autumn/Spring semester 20\_\_\_\_. Courses (Name, credits):

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When 60 credits are studied, the student should contact the personal teacher and discuss who could be a potential thesis advisor and would become the new personal teacher