

## Subjects to be covered

The course stk4500 deals with life and pension insurance which has a liability and an asset side. Risk is seen in a long-term perspective. The course includes practical issues of computation for which R is the course platform (students may use other platforms of their choice). The following main subjects will be covered:

- 1 Single life insurance
- 2 Financial asset models
- 3 Financial options
- 4 Asset-liability management
- 5 Multi-state insurance
- 6 Advanced mortality modelling
- 7 Miscellaneous

Items 1-4 will be finished before the break at Easter. One or two lectures will be held by a senior analyst in the insurance industry. Course language will be Norwegian or English, the latter if there are one or more non-Norwegian speakers in the audience.

Course material are chapters in a book that is being published and will be handed out in the beginning of the course in January. There are three hours teaching weekly on Tuesdays where the first two are for lectures and the third for exercises with the exercise part growing in size after the Easter break and towards the end of the course. Final day of teaching is planned for May 14 and there will probably be no teaching on Tuesday April 2 immediately after Easter.