## Course title: Introduction to population dynamics JE 203 3 credits

## Instructors: Prof. A. Joshi

ca. 42 hrs lecture; pre-requisites: JE 204; 3-4 homework assignments, possibly augmented by one open book exam.

## Syllabus:

Historical outline of the development of classical population dynamics theory.

Continuous and discrete time models of single species population growth.

Dynamic behaviour: equilibria, limit cycles and chaos.

Spatially structured population growth models.

Experimental approaches to population dynamics.

Models of species interactions.

Models of growth in age-structured populations.