# Course title: Introduction to population dynamics JE 2033 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.

