

**Course title: Laboratory course on Evolutionary Biology**

**JE 209 (Aug) 1:3 credits**

**Instructor : Prof. Amitabh Joshi**

**Syllabus:**

Basic laboratory ecology and handling of *Drosophila* populations; media preparation, vial stages and cage stages of a culture; egg collection; adult harvesting; assays of basic life-history related traits like pre-adult survivorship and development time, female fecundity and adult life-span; assays of mating-related behaviours and traits. Design and analysis of experimental evolution studies involving laboratory selection.