**Title:** Dynamical Systems

**Basis Details:**
- Core Audience: Mathematics
- Course Format: Core (10h)

**Course Description:**
- Keywords: flows, maps, periodic points, topological conjugacy, Bernoulli shift, symbolic dynamics, deterministic chaos, invariant measures, Ljapunov exponents.

- Synopsis: This course introduces some basic concepts of both continuous-time and discrete-time dynamical systems. These systems will be characterised in terms of periodic orbits, attractors, and Lyapunov exponents. Techniques such as linearisation, topological conjugacy, and symbolic dynamics will be explained.

**Recommended reading:**

**Format:**
- No. of problem sheets: 5 (optional)
- Electronic lecture notes: yes
- Necessary support facilities: none
- Necessary software requirements for computing facilities: None

**Lecture Details**
- Lecturer: Prof Franco Vivaldi, QMUL