

Tentative Lecture Schedule

Day 1:

Introduction to mechanical metamaterials
Static structural mechanics of cellular metamaterials – homogenised properties
Effective mechanical properties of disordered cellular metamaterials

Day 2:

Mechanics of viscoelastic cellular metamaterials,
Homogenised properties of general multiplanar and multiscale 2D metamaterials
Dynamic homogenisation of cellular metamaterials

Day 3:

Multiphysics wave characteristics of piezoelectric metamaterials
Dynamics of disordered systems