

### **Notes for lecture 8**

1. Date: June 2<sup>nd</sup>.
2. The lecture (see SampleProblems8.pdf, SampleProblems8\_extra.pdf and Sample Problems in Chapter3.1-4.pdf files) consider dynamics (motion equations) in different coordinate systems (rectangular and curvilinear coordinates) that we already learnt. The key points are as follows.
  - a. Free-body diagram. If motion of a particle is physically constrained (from being free), the constraints are replaced by reaction forces. Having done that, we then consider the particle as if it were free and moved by the active (such as gravity or other explicitly given force) and reactive forces.
3. The deadline for submitting assignment (see Assignment8.pdf) is June 9.