Session index (50min each)	Title	Intended Learning Outcomes	Teaching Material and Learning Activities
1	making robots balance - part 1	• overview of the purpose of the project • overview of what one is expected to do and learn • examples of what is control • fundamental block scheme • introduction of the 'balancing problem' • expliciting of the meaning of the control actions	• slides • video • demonstrations with sticks • discussion sessions
2	making robots balance - part 2	• intuitive understanding of what feedback is • introduction to the robot platform • overview of the hardware components in the platform • introducing and testing different control heuristics • introduction to P controllers • testing the P controller on the robot • intuitions about how to tune P controllers	• slides • video • demonstrations with the robots • discussion sessions
3	making robots balance - part 3	• consolidating the intuitions about the P controller • other physical examples of P controllers • effects of constant disturbances • introduction to integral and derivative actions • intuitions about how to tune I and D actions • summary of what a PID is • mentioning integrals and derivatives • tests with different tunings with the robot	• slides • video • demonstrations with the robots • discussion sessions