

## **Project-II on simulated data**

Each student of the program will have to submit a project where he/she must describe one scenario (or scenarios) from a production process.

During this specific production process certain SPC procedures, and specifically control charts, are carried out. For this reason, each student will have to produce random data in which, at a given moment of time, there is a shift (in the mean, standard deviation, the number of conformities etc.) of the process.

Then, the familiar control charts mentioned during the class should be applied to these data. The process can be repeated to different data where a different problem scenario is illustrated.

In each diagram there will be a comment about its ability to detect or not the shift in the process.

The project should include the report (in doc or tex), the R-code and the data.