

The objective of this quiz is to test and examine your knowledge of the class material we have covered so far. We are halfway through the semester, and thus far, we have covered the following modules:

1. Linear systems theory (Module 03)
2. Introduction to optimization and KKT conditions (Module 04)
3. Introduction to optimal control, dynamic programming, etc... (Module 05)
4. Linear Model predictive control (Module 06)
5. Dynamic state estimation and observer design for linear and nonlinear systems (Module 07)

For the above topics (classified by Modules 03–07), discuss in full sentences what you have learned so far. Be abstract, concise, and succinct as much as possible. You will receive credit based on clarity, language, and conciseness. This quiz weights twice as much as a usual one.