

Homework, Exam, Project Timetable

Item	Dates(week)	Late Homeworks are penalised.
HW 1	out - Fri August 22(w4)	due - Mon September 1(w6)
HW 2	out - Mon September 1(w6)	due - Mon September 15(w8)
HW 3	out - Mon September 15(w8)	due - Mon October 6(w10)
Project	Email expressions of interest (2 topics in order of preference) due Mon August 18(w4) One page proposal due Fri August 22(w4) Talks held the week of October 20(w12) report due - Wed October 22(w12)	
Final	out - Wed October 22(w12)	due - Fri October 31

Teaching Strategies

Lectures	to give the basic material in written form, and to highlight the importance of different sections, and help with the formation of schema.
Assignments	to give practice in problem solving, and to assess your progress.
Examination	the final test of competency.

Learning Outcomes

At the end of the course the student will be familiar with basic aspects of multivariable linear system theory and control, from both an input/output and a state space point of view. The student will be able to use this knowledge to solve basic problem in multivariable linear system theory and multivariable control design.

Academic Honesty and Plagiarism

Plagiarism is the unacknowledged use of other peoples work, including the copying of assignment works and laboratory results from other students. Plagiarism is considered a serious offence by the University and severe penalties may apply. For more information about plagiarism, refer to <http://www.lc.unsw.edu.au/plagiarism>

Administrative Matters

On issues and procedures regarding such matters as special needs, equity and diversity, occupational health and safety, enrolment, rights, and general expectations of students, please refer to the School policies, see <http://scoff.ee.unsw.edu.au/>.

Week Topic

1 Introduction

2 Nonlinear Ordinary Differential Equations

3 Phase Plane Methods

4 Lyapunov Stability

5 Input/Output Stability

6 Describing Functions

7 Nonlinear Control - Introduction

8 Feedback Linearization

9 State Feedback Linearization

10 Gain Scheduling

11 Sliding Mode Control

12 Backstepping Design Method