



Shahid Chamran University of Ahvaz  
Engineering Faculty  
Mechanical Engineering Department

Course Info

## Linear Control Systems

Lecturer: Laleh Fatahi, Ph.D. of Mechanical Engineering  
Reference Book: Modern Control Systems, R.C. Dorf and R.H. Bishop  
Fall 2016

### Teaching Schedule

Topic	Chapter	Week
Introduction to control systems	1	1
Mathematical models of systems	2	2-3
State variable models	3	3
Feedback control system characteristics	4	4
The performance of feedback control systems	5	5-7
The stability of linear feedback control systems	6	8
The root locus method	7	9-10
Frequency response methods	8	11
Stability in the frequency domain	9	12-13
The design of feedback control systems	10	14-17

Evaluation: Midterm Exam 30% - Final Exam 50% - Home-works 20%