Control Systems (802331)

Course Syllabus

	Circuit Analysis II (804302) & Advanced Eng.
Prerequisites:	Mathematics (802347)
Course Units:	Lecture Units: 3 Lab Units: 1 Total Units: 4 Contact
	Hours: 6
Instructor	Dr. Abdulfattah Noorwali and Dr. Abdullah Aljoahni.
Details:	(First Floor, Electrical Engineering Department)
	Email: afnoorwali@gmail.com & ajjoahni@uqu.edu.sa
	Webpage: https://uqu.edu.sa/ajjoahni
Textbook:	0 Modern Control Engineering, Katsuhiko Ogata
	o Modern Control System, Drof and Bishop
Course	The Couse is divided into:
Contents:	1. Mathematical Modeling of Control Systems:
	 Transfer Function, Impulse Response, State-
	Space Representation, Convolution integral
	Mathematical modeling of electrical
	systems and mechanical systems.
	2. Transient and Steady-State response analysis:
	First-order systems, second-order systems
	Matlab transient response. Routh's
	stability, Root-Locus plots, Bode plots and
	Stability with Matlab.
	Note that these topics might adjusted
	or changed as necessary.
Assessment	o 20% Quizzes 30% Midterm Exams and 40% Final
Criteria:	Exam.
	o 10% Lab Work & Home Works.