

Teaching Staff	Dr. Abbasali Saboktakin	E-mail: alaptakin [at] gmail [dot] com
Course	ADVANCED HYDRAULIC AND PNEUMATIC SYSTEMS	
Grading	Grades will be based upon the following elements: <ul style="list-style-type: none"> • Homework (10% of total grade) • Midterm Exam (30 % of total grade) • Final Exam (50 % of total grade) • Course Project (10 % of total grade) 	
Textbook	<ul style="list-style-type: none"> ➤ Anthony E., Fluid Power with Applications, Prentice Hall, 2008. ➤ McCloy D., Martin, H., Control of Fluid Power: Analysis and Design. Chichester, Ellis Horwood, 1980. 	
Web Page	https://www.usb.ac.ir/astaff/Saboktakin/fa	
Course Policies	<ul style="list-style-type: none"> ➤ In general, no late homework will be accepted. ➤ It is anticipated, even encouraged, that students will consult with each other on assignments. It is expected, however, that all work submitted by the student represent his/her own effort. ➤ Instances of plagiarism on an assignment will result in full loss of credit for that assignment. ➤ Instances of cheating in any form during an exam will result in full loss of credit for that exam. 	
Consulting	If you would like to talk with me outside of the course hours, please make an appointment via Email: alaptakin [at] gmail [dot] com	
Topics	<ol style="list-style-type: none"> I. Introduction to Industrial Hydraulic & Pneumatics systems II. Fluid System Fundamentals III. Hydraulic Drive Systems IV. Electrohydraulic Valve-Controlled (Servomechanism) V. Hydraulic Circuit Design VI. Pneumatics Drive Systems VII. Pneumatics Circuit Design VIII. Logic Control Systems IX. System Modeling X. Steady State Errors XI. Frequency Response Methods XII. Industrial Hydraulic System Design Considerations 	

Success is directly proportional to the amount of time devoted to study and learning new things.