

Teaching Staff	Dr. Abbasali Saboktakin	E-mail: alaptakin [at] gmail [dot] com
Course	ADVANCED COMPOSITE MATERIALS	
Grading	<p>Grades will be based upon the following elements:</p> <ul style="list-style-type: none"> • Homework (10% of total grade) • Midterm Exam (30 % of total grade) • Final Exam (50 % of total grade) • FEA Courseproject (10 % of total grade) (Based on Abaqus. Aim is to provide a light introduction to design of composite structures using FEA) 	
Textbook	<ul style="list-style-type: none"> ➤ R. M. Jones, Mechanics of Composite Materials, Taylor and Francis, 1999. ➤ M. W. Hyer, Stress Analysis of Fiber Reinforced Composite Materials, McGraw Hill, 1998. ➤ P. K. Mallick, Fiber-Reinforced Composites: Materials, Manufacturing, and Design, CRC Press, 2007. ➤ Handouts and other material may be provided as needed. 	
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. Constituent materials II. Manufacturing processes (Advanced technologies) III. Mechanics of composite materials (Stiffness and strength of laminates, laminate theory,..) IV. Impact, fatigue and failure V. Design for composites VI. Application examples (in particular aerospace applications) 	

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