

Course Name	Computational Solid Mechanics		
Semester, Year	First Semester, 2019 (Spring Term)	Number of Credits	1 credit
Course level	6000	Course Number	027026
Instructor(s) (Institution)	Kosuke TAKAHASHI 大学院工学研究院		
Course Objectives	This lecture aims to teach macroscopic approaches of computational solid mechanics through basic concepts of finite element method.		
Course Goals	<ol style="list-style-type: none"> 1. Understanding the derivation of entire rigidity equation from finite elements in Finite Element Analysis 2. Acquiring simulation skills through assignments and a final report 		
Course Schedule	<ol style="list-style-type: none"> 1. Introduction to computational solid mechanics (1) 2. Finite Element Method (4) 3. Application to non-linear analysis (2) 		
Homework	<p>Preparation: Reading textbooks in advance. (0.5h)</p> <p>Review: Working on assignments after each lecture. (1.5h)</p>		
Grading System	<ol style="list-style-type: none"> (1) Assignments and attitude in classes: 40% (2) Final report: 60% 		
Textbooks / Reading List	Fundamentals of Finite Element Analysis David V. Hutton McGraw-Hill 2004		
Websites			
Website of Laboratory	http://labs.eng.hokudai.ac.jp/labo/MFM/english/		
Additional Information			