

## 탄성체 역학 I (Elasticity I)

2017 년 봄학기

**Instructor** : 이 해 성  
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**Class Hour** : 11:00<sup>AM</sup>-12:15<sup>PM</sup> Mon., 11:00<sup>AM</sup>-12:15<sup>PM</sup> Wed.  
**조 교** : 김지현 (35-211, 880-8740)

**Text :**

1. Class note by the instructor
2. A First course in Continuum Mechanics by Y. C. Fung, 3rd Edition
3. Theory of Elasticity by Timoshenko and Goodier, 3rd. Edition

**Reference :**

1. Foundations of Solid Mechanics by C. Y. Fung
2. Introduction to the mechanics of a continuous media by L. E. Malvern

### Class Contents

1. Introduction of Elasticity (1)
2. Stress and Equilibrium (2-3)
3. Strain, Deformation and Compatibility (4-5)
4. Constitutive Equation (6)
5. Two-dimensional Problems - Plane Stress and Plane Strain (7-8)
6. Plane Problems in Polar Coordinate system (9-10)
7. Beam Problems (11)
8. Torsion (12-13)
9. Energy Method (14-15)

### Evaluation

Midterm Exam × 2	: 40 % (April 10, May 15)
Final Exam	: 30 % (June 14)
Home Work & Attendance	: 30 %

### Rules for Class

1. All grades including C, D, F are possible.
2. No homework will be accepted after due dates.
3. Absence from class by two times without reasonable excuse is equivalent to one homework.