

SYLLABUS (subject to change)  
STATICS - FALL 2018

Instructor: Youngshik Kim, 6-407, youngshik@hanbat.ac.kr, 821-1163.  
Office Hours: M, T 1:00pm-2:00pm, or by appointment.  
Lecture Time: TBA  
Lecture Location: TBA

Course Description: Statics deals with forces and moments in equilibrium, which provides fundamental engineering concepts for learning more advanced mechanics courses such as dynamics, mechanics of materials, fluid mechanics.  
정역학은 힘과 모멘트가 작용하는 물체의 평형을 다루는 학문이다.  
정역학은 재료역학과 동역학 등의 역학을 공부하는 데 있어 가장 기초가 되는 학문으로 매우 중요하다.

Course Objectives: In this course, students will learn a basic knowledge of forces and moments acting on static systems including machines and structures. They will thus learn static equilibrium, which deals with free body diagrams, the analysis of internal forces and moments in systems, and centroids and moments of inertia.

Prerequisites: Linear Algebra

Textbook: A Pytel and J. Kiusalaas, Engineering Mechanics: Statics (4th ed.), Cengage Learning (영문판/번역판)

Class Website: <http://robot.hanbat.ac.kr> ->teaching -> statics or <http://cyber.hanbat.ac.kr>  
visit the site for class handouts and additional information

Quiz/homework Policies:

1. Quizzes may be given out infrequently in class (~15 minutes). These will be based entirely on the reading material covered in previous classes.
2. No cheating in quizzes (no cheating papers, no text books, no talking, no lecture notes, 부정행위 금지)
3. Grading: each homework problem will be evaluated on a 3-point scale: 3 = good effort, results, and technique; 2 = modest effort with some incorrect technique or results; 1 = poor effort or technique; and 0 = no attempt.
4. Homework must be submitted in class on the date due.
5. Late homework will be marked down 10% per business day unless prior arrangements exist.
6. Discussion of homework and teamwork is encouraged, but each student must complete each assignment individually. Figures and computer programs CANNOT be shared.
7. Homework may be discussed in class, but it is the students' responsibility to compare their results to homework solutions to resolve errors in their work.

Exam Policies:

1. Examinations must be taken at the scheduled time unless prior arrangements are made at least one week before the exam.
2. Any students cheating on an exam will receive a failing grade for the class (부정행위 시 F).
3. No smartphone or devices except for a calculator. (계산기외 다른 기기 금지).

DEPARTMENT OF MECHANICAL ENGINEERING  
HANBAT NATIONAL UNIVERSITY

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Grading Policies:

1. No negotiation for grades. (학점 올려달라고 연락하거나 찾아오지 말 것, 점수 깎일 수 있음)
2. Student attendance will be checked each class. Exemption will be applied according to School Policies (Article 99, 학사운영규정 제 99조에 따라 출석 인정): 수업 1/4 (4회)이상 결석 시 F.

Grade Weightings:      Quiz/homework: 30% (due in class)  
                                  Class Attendance: 10%  
                                  Midterm Exam: 30%  
                                  Final Exam: 30%

**SCHEDULE**

<b>Week</b>	<b>Topic</b>	
1	Introduction (Ch.1)	개요 (1절)
2	Vectors and Force (Ch.1~2)	벡터와 힘 (1~2절)
3	Force Systems (Ch.2)	힘계 (2절)
4	Force System Resultants 1	힘계의 합력 1
5	Force System Resultants 2	힘계의 합력 2
6	Equilibrium Analysis 1: Single body	평형해석 1: 단일물체
7	Midterm Exam	중간고사
8	Equilibrium Analysis 2: Composite bodies	평형해석 2: 복합물체
9	Equilibrium Analysis 3: Truss	평형해석 3: 트러스
10	3D Equilibrium 1	3차원 평형 1
11	3D Equilibrium 2	3차원 평형 2
12	Friction and Centroid	마찰과 도심
13	Distributed Loads	분포하중
14	Moments of Inertia	관성모멘트
15	Final Exam	기말고사

정역학 숙제 표지 샘플  
(문제 번호)

반/수업시간:

제출일:

학번:

이름: