



## Course syllabus

Faculty of Technology

Kalmar Maritime Academy

1TI06T Grundläggande matematik för sjöbefäl, 7,5 högskolepoäng  
1TI06T Basic Mathematics for Merchant Navy Officers, 7.5 credits

### **Main field of study**

Mathematics

### **Subject Group**

Mathematics

### **Level of classification**

First Level

### **Progression**

G1N

### **Date of Ratification**

Approved by Faculty of Technology 2018-01-08

The course syllabus is valid from autumn semester 2018

### **Prerequisites**

General entry requirements for university studies.

## Objectives

*Skills and abilities*

By the end of this course, students will be able to:

- formulate and solve mathematical problems with systems of linear equations,
- formulate and solve mathematical problems with nonlinear equations and functions,
- formulate and solve mathematical problems with logarithms and exponential equations,
- formulate and solve mathematical problems with geometry.

## Content

The main course contents are divided into the following areas:

- systems of linear equations
- nonlinear equations and functions
- logarithms and exponential equations
- geometry

## Type of Instruction

Teaching consists of lectures and exercises.

## Examination

The course is assessed with the grades Fail (U), Pass (G) or Pass with Distinction (VG).

Knowledge assessment takes place through individual written exam.

## Course Evaluation

During the course or in close connection to the course, a course evaluation is to be carried out. The result and analysis of the course evaluation are to be communicated to the students who have taken the course and to the students who are to participate in the course the next time it is offered. The course evaluation is carried out anonymously. The compiled report will be filed.

## Required Reading and Additional Study Material

Gennow, Susanne, *Exponent 1c*, Susanne Gennow, Ing-Mari Gustafsson, Bo Silborn. Glerups 2013, latest edition (290 of 330 pages)

Gennow, Susanne, *Exponent 2c*, Susanne Gennow, Ing-Mari Gustafsson, Bo Silborn. Glerups 2013, latest edition (220 of 260 pages)

Gennow, Susanne, *Exponent 3c*, Susanne Gennow, Ing-Mari Gustafsson, Bo Silborn. Glerups 2013, latest edition (60 of 230 pages)