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Kursplan för DWTS 5

## **THE DEVELOPMENT OF WESTERN TECHNOLOGY AND SCIENCE**

**5 credits (7,5 ECTS) A-level**

The course description is written by Michael Lindgren.

The course description was established by **XXX**

### **PLACEMENT IN ACADEMIC SYSTEM**

The course is given as a single subject course.

### **AIMS**

The overall aim of the course is to provide the students with a basic knowledge to be able to analyse technology and science today. This multidisciplinary course therefore focuses upon how technology and science have evolved and interacted through times in Western Culture. By studying technology and science from several perspectives - e.g. religious, political, economic, military, cultural, geographical and from viewpoints of material resources, nature and environment - the students are given a broad background of general themes and individual accomplishments of both success and failure.

### **PRIMARY CONTENTS**

Focus is set upon the period from 1600 till today, and the development in Europe and the United States of America. Science and technology are studied from the achievements of individuals to the institutionalisation of these areas. Of equal importance are major theme studies, such as the Scientific Revolution and the Industrial Revolution. Among the many sub-subjects are: materials, design, information, communication, energy, disasters, invention, entrepreneurs, innovators and scientists, substitutes for natural products, and the interaction between these matters and religion, economy and environment. Part of the course is focused upon the development of Swedish science and technology, in international perspectives. The driving forces of technology and scientific development will also be examined and analysed, as well as questions regarding the possible developments of the future.

### **COURSE REQUIREMENTS**

General entrance requirements.

### **COURSE EVALUATION**

A course evaluation is included in the course. The evaluation will then be guiding when developing the course. The Course evaluation shall be documented and presented to the students.

### **LECTURING AND EXAMINATION**

The course is offered as a distance course, where the students need to come to lectures and to do their reading and writing of summaries at home. There is an 80% compulsory attendance on the lectures. This is due to the fact that a crucial part of the course is given in the form of lectures. The teaching methods involve mainly lectures and exercises. The students are required to read the literature on their own, with support from what the lectures add. There will be a written exam, covering the lectures and the literature, where the grading is 5, 4, 3 or fail.

### **COURSE LITERATURE**

Donald Cardwell. Wheels, Clocks and Rockets. A History of Technology. Latest edition.

Articles