



## METADATA

**Title:** Sericulture

**Other Titles:** -

**Language:** Greek

**Authors:** Dedos, S., Assistant Professor, UOA

**ISBN:** 978-618-5726-84-3

**Subject:** NATURAL SCIENCES AND AGRICULTURAL SCIENCES, ENGINEERING AND TECHNOLOGY

**Keywords:** Sericulture / Silk / SilkSilkworm / Silk fabrics / Silk reeling

**Bibliographic Reference:** Dedos, S. (2023). Sericulture [Undergraduate textbook]. Kallipos, Open Academic Editions. <http://dx.doi.org/10.57713/kallipos-207>

### Abstract

The textbook "Sericulture" is an academic textbook for students in higher education. Through the 11 chapters of the textbook, and after an introduction to the historical past and the current status of sericulture in Greece and worldwide (Chapter 1), the reader learns about mulberry cultivation (Chapter 2) and the use of mulberry leaves for silkworm rearing. In the following chapters, the reader learns about silkworm anatomy (Chapter 3) and its developmental physiology and nutrition (Chapter 4), silkworm eggs' management (Chapter 5), the rearing of silkworm larvae (Chapter 6), cocoon production (Chapter 7) and the diseases affecting this insect (Chapter 8). The silkworm is reared to harvest its cocoon, therefore, in the final chapters of the textbook, the reader learns about cocoon quality assessment and silk reeling

(Chapter 9) and the emerging uses of silk (Chapter 10) as a biotechnological and environmentally friendly material since there is a clear shift in scientific literature towards the use of silk as an animal product in a variety of applications, beyond its use as a textile material. As silkworm rearing for silk production can no longer be considered a solely agricultural activity, it became necessary to draw on many, specialized and technical textbooks and sources in Japanese, English and Italian to compose the manuscript. A great deal of information was also drawn from extremely rare books that are no longer available in print. However, the reader is provided with several websites and links (Chapter 11) for access to audio-visual material and databases covering a wide range of information on sericulture.

