

PRESERVICE SCIENCE TEACHERS' OPINIONS ON THE HISTORY AND PHILOSOPHY OF SCIENCE

Arş. Gör. Nisa Yenikalaycı
Ondokuz Mayıs Üniversitesi
nisa.yenikalayci@omu.edu.tr

Öğr. Gör. Dr. İbrahim Yüksel
Gazi Üniversitesi
ibrahimyuksel@gazi.edu.tr

Abstract

The aim of the study is to determine the views of preservice teachers about science and philosophy in different periods and regions in history. Research conducted according to case study design, was carried out with 49 preservice teachers studying in the fourth grade of the Science Education Department of a public university in the Black Sea region. In order to collect the data, the opinion form prepared by the researchers based on expert opinions was used. In the content of the opinion form there are open-ended questions that question the status of science and philosophy in Ancient Greece, Medieval Europe and Scholastic period, Islamic cultural geography, Mesopotamia, Renaissance Europe and the Enlightenment Age. The opinions of prospective teachers were analyzed by content analysis and the data were divided into categories and codes. The data in the research; general characteristics of the period, inventions / discoveries / investigations / observations and scientists / philosophers are discussed in 3 categories. As a result of the research, it was determined that the preservice teachers' opposing opinions arising from the lack of information besides the correct information regarding the periods.

Keywords: History of science, philosophy of science, science student.