

13.3.2026

Author

BALAKRISHNAN, Balamuralithara (LOW, Foon Siang)

Title

Learning experience and socio-cultural influences on female engineering students' perspectives on engineering courses and careers / Balamuralithara Balakrishnan ; Foon Siang Low

Publication year

2016

Source/Footnote

In: Minerva. - 54 (2016) 2, S. 219 - 239

Inventory number

44508

Keywords

Ausland : Japan : Forschung, Hochschullehrer ; Wissenschaftlicher Nachwuchs : Ingenieure ; Prüfungsordnungen : Ingenieure (allg.) ; Frauenstudium

Abstract

As developed and developing countries move towards greater technological development in the 21st century, the need for engineers has increased substantially. Japan is facing the dilemma of insufficient engineers; therefore, the country has to rely on foreign workers. This problem may be resolved if there is a continuous effort to increase the number of women engineers, who currently represent only 1%–2% of engineers in Japan. In this study, the satisfaction level of the learning experience of Japanese female engineering students was measured to determine its relationship with the students' intention to choose engineering as their profession. Socio-cultural influences on the respondents' intentions to pursue careers in the field were also studied. The findings revealed that learning experience was directly related to female students' intention to pursue their career in engineering whereas socio-cultural values of a society have strong influences on students' motivation to pursue careers in engineering in general. Additionally, some strategies are proposed to attract young girls to

13.3.2026

pursue engineering courses, as well as for current female engineering students to continue their studies and choose professions in the field as their career. (HRK / Abstract übernommen)