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Author: Dr. Shinmyeong Kim
Satellite Technology Research Center(SaTReC), KAIST, Korea, Republic of

Mr. Chol Lee
Korea Advanced Institute of Science and Technology (KAIST), Korea, Republic of
Dr. Jeong Ki Seo
Satellite Technology Research Center(SaTReC), KAIST, Korea, Republic of
Prof. Sejin Kwon
Korea Advanced Institute of Science and Technology (KAIST), Korea, Republic of

CASE STUDY OF IMPLEMENTING THE NEW SPACE PERSONNEL TRAINING CURRICULUM

Abstract

As the private space industry rapidly grows worldwide and the new space trend, there is a need to train new human resources in the space industry. Accordingly, there is a need for a systematic and effective training course to train new personnel in the space industry with experience and competency in satellite system development. Thus, in this study, by applying the case study method at the Satellite Technology Research Center in Korea, 10 trainees who are willing to join a space-related firm were selected, and a training course for new space personnel was developed and implemented for 12 months. The curriculum for training new space personnel consisted of primary theory education, practical education, special lectures on the latest space technology, Individual/Team Project Based Learning, major education for each field, and employment competency strengthening education. In order to analyze the change in the trainees' space technology competency, the educational satisfaction and personal reflection activities of trainees who participated in the education were analyzed. Through this course, effective practical strategies to improve the space technology competency of trainees were explored. Through this study, the significance of this study is that it revealed the causal relationship between the training process for new space personnel and the space technology competency of trainees and identified the overall context. It is expected that the main research results of this study will be used as primary data for crucial issues to be considered when developing and implementing a curriculum for training new space personnel.