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PROBLEM-BASED LEARNING AS AN EDUCATIONAL METHOD FOR THE 21ST GENERATION SPACE SCIENTISTS

Abstract

Preparing a student in the field of space technology can be extenuating and more now that the development of a series of skills is needed to enrich their professional and scientific careers. Here we report the application of a Problem-Based Learning model to Postgraduate Students at Beihang University that bolsters the student-centered learning environment and links the knowledge with the student needs. The proposed method, allows teachers to assess different skills such as teamwork, collaboration, creativity, imagination, critical thinking, leadership and problem solving envisioned in real-life scenarios. We demonstrated that the proposed model develops a variety of activities that can work different parts of a satellite project at different stages, giving the subject a sense of deep meaningfulness. We regard our PBL model as a pillar of academic success that can be applied in Space Technology projects.