

PBL Online Learning in Thermodynamics and Statistical Physics: Students' Readiness

ABSTRACT

This paper explores students' readiness towards PBL online learning in two subjects of Physics among Physics students from Universiti Malaysia Sabah. Online learning was implemented through Problem-Based Learning (PBL) approach in two subjects, i.e., Thermodynamics Physics and Statistical Physics each during on Semester 1 and 2 respectively. A set of questionnaires was distributed to twenty five (25) second-year students of Physics with Electronics at University Malaysia Sabah before and after online learning was implemented for 28 weeks long. As a supplement, an interview was held with selected group of students from this sample to study students' technical and pedagogical readiness which was discussed in this paper. As a conclusion, results of this paper lays the general foundation for active implementation of PBL online in topics of Physics in Universiti Malaysia Sabah.