

# **NORMALIZED GAIN AND LEAST SQUARES TO MEASURE OF THE EFFECTIVENESS OF A PHYSICS COURSE**

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## **Abstract:**

We present a quantitative analysis using the concepts of Normalized Gain and Least Squares in a process of Physics Teaching. This paper presents the results of the strategy based in The Construction of Prototypes (TCP) and Project Based Learning (PrBL) which was applied in a course of Mechanics in Bogotá-Colombia. The strategy focuses on three topics of Rotational Dynamics Teaching (RDT) specifically at centripetal force, Inertia moment and theorem de parallel axes and angular momentum conservation. We present results and analysis of employed method.

## **Keywords**

Least squares, Normalized Gain, Projects-based learning