

## عنوان مقاله:

Anthropometric Dimensions and Classroom Furniture Measurements Among Pre-school Students in Kerman, South East of Iran

## محل انتشار:

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## خلاصه مقاله:

**Abstract Introduction:** With the alternation of the educational system from a three-stage into a two-stage system in Iranian schools since several years ago, five-year-old children entered from kindergartens to primary schools. This study was conducted to investigate the harmonization of classroom furniture with anthropometric dimensions in preschool students. **Methods:** In this study, 366 male and female preschool students were selected by cluster sampling method in Kerman, Iran. The sample size was calculated by the Cochran formula. Some of the anthropometric dimensions such as shoulder, elbow, and popliteal height, popliteal buttock length, and buttock breath were measured. Data were analyzed using SPSS 21. Statistical indicators such as mean, maximum, minimum, standard division, and 5th, 50th, and 95th percentiles were calculated for both the sexes and were compared with five dimensions of the existing seats. Next, the dimensions of the standard seats were determined according to the anthropometric dimension's students. **Results:** Anthropometric dimensions comparison between girl and boy pre-school students in Kerman city showed just popliteal height had a significant difference ( $p \leq 0.05$ ). Match of anthropometric measurements with seat dimensions indicated that there is no consistency between the seats and anthropometric dimensions in. Armrest height, seat height, backrest height, seat depth and seat breath were matched with (0, 0.5, 10, 6.7, 0) and (0.7, 28.7, 6, 2.5, 0) percent of anthropometric measurements of girl and boy students respectively. **Conclusions:** Due to adding a new grade to primary school, it seems that no work has been done for improving the furniture. Therefore, in this article, we presented the dimensions of an appropriate seat. This may help not only save production costs in the industry but also increase the matching between students' anthropometric and seat dimensions.

## کلمات کلیدی:

Anthropometry, Primary school, Classroom furniture, Pre-school student  
تن سنجی, دبستان, مبلمان کلاس, دانش آموز پیش دبستانی

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