

Laboratory I: Exercise in Selected Anthropometric Measures Related to Chair Design

Goal: The goal of this laboratory is to familiarize the students with the procedures of anthropometric measurement for the purpose of chair design and redesign.

Equipment: Anthropometric Kit, Measuring Tape.

Procedure: Collect data on your eight standard anthropometric measurements (as given below) related to chair design. Refer to the figures given in the handouts corresponding to these measurements. Get help from your friend to take your measurements, also help him/her to take his/her measurements.

1. Height
2. Sitting height – normal
3. Thigh clearance height
4. Elbow rest height
5. Popliteal height
6. Buttock-popliteal length
7. Elbow-to-elbow breadth
8. Seat breadth

Results:

- Report the measurements in tabular form
- Determine your percentile rank for each of the measures in comparison to the data provided in the Table in the handouts.
- Write a report consisting of the following sections:
 1. Introduction
 2. Objective
 3. Methods and procedure
 4. Results and discussion
 5. Conclusion and recommendation
 6. Appendix