

The background of the entire page is a technical drawing in blue ink on a white background. It features various mechanical components, including gears, shafts, and bearings. A ruler is visible at the top left, showing measurements in centimeters. The drawing is detailed, with many lines and annotations, typical of a mechanical engineering blueprint.

Ultimaker

educational challenge

JU Mješovita srednja
hemijska škola Tuzla
BOSNIA AND HERZEGOVINA

Teacher: Delila Mehmedinović



Name of work: Graphic chair

Mentor: Delila Mehmedinović

students:

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- Ibrahim Mehmedovic
- Armin Karic
- Dropić Merima
- Belkić Elma
- Karabegović Iman

For this work we needed a month and a lot of hard work and suffering, we have invested in order to get what you see today.

Description of work: The work should represent a chair that is made of different materials that are used in the printing industry. The paper is intended to show that the waste is not garbage and the materials used in the printing industry can be reused in order to obtain functional and useful things. In addition, this project we want to show that beauty is in diversity and mixing different materials, and that new technologies allow us to manipulate and create new things and possibilities such as using a 3D printer.

In the work we use materials such as rolls of film we use for lamination of printed products, a CD may not always be just a medium for the transmission of data but can also serve other purposes and contribute to the aesthetic appearance of a new product. All this we lined newspapers to take advantage of the newspapers that were to end up in the trash.

How do we have material unplanned we did a hundred who could serve well for disposal of the morning coffee we drink, or rest in the warm spring garden while listening to birds singing and sitting on our hand-drawn chair.





The first step was coming up with ideas. We are a group of creative people whose original ideas have already won prizes in various fields, but this is really a big challenge for us because the competition is too great. We want to be the best went from the drawing. Sketch is something of which the first move, ideas, and we try to create something that will be original and something that hasn't already been seen before. That what our team makes special is that we work very well as a group and teamwork gives us the exchange idea of a broad spectrum. We tried to use theoretical knowledge in the subject Engineering, Graphic technology, Practical work, graphic materials, Graphic design that exist in our school and to integrate it into a single unit.

See how it all started ...



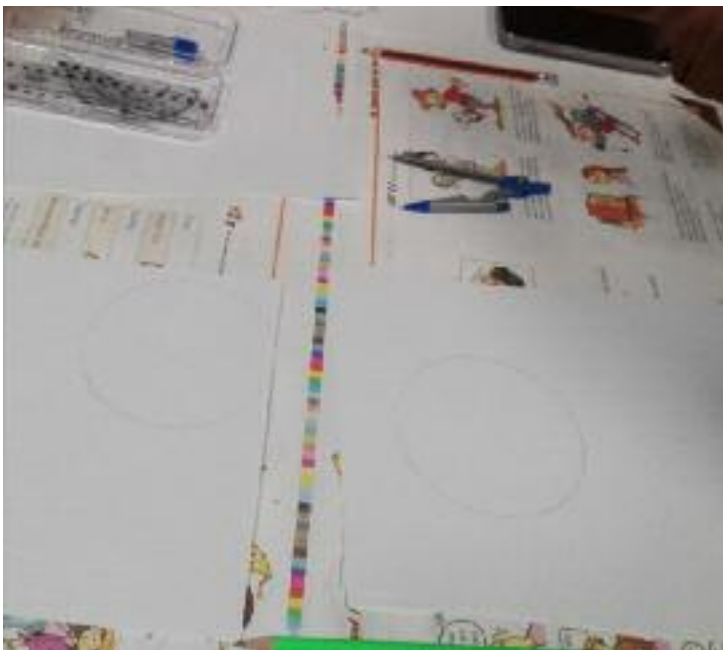
Our creative team



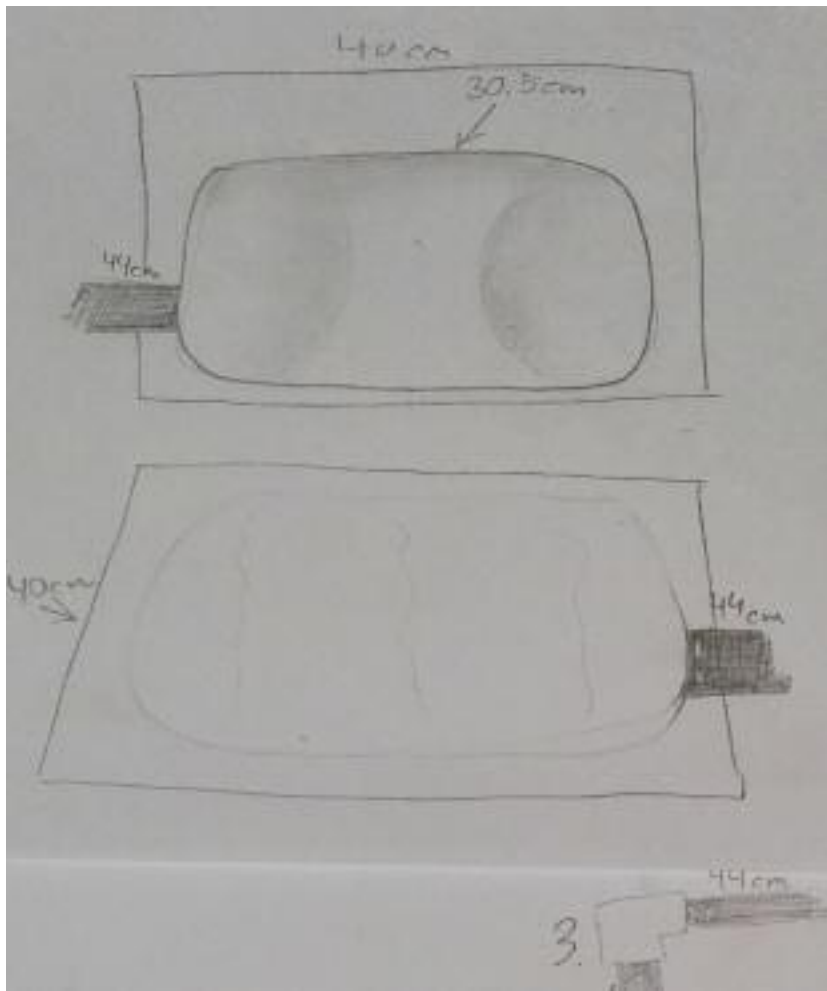
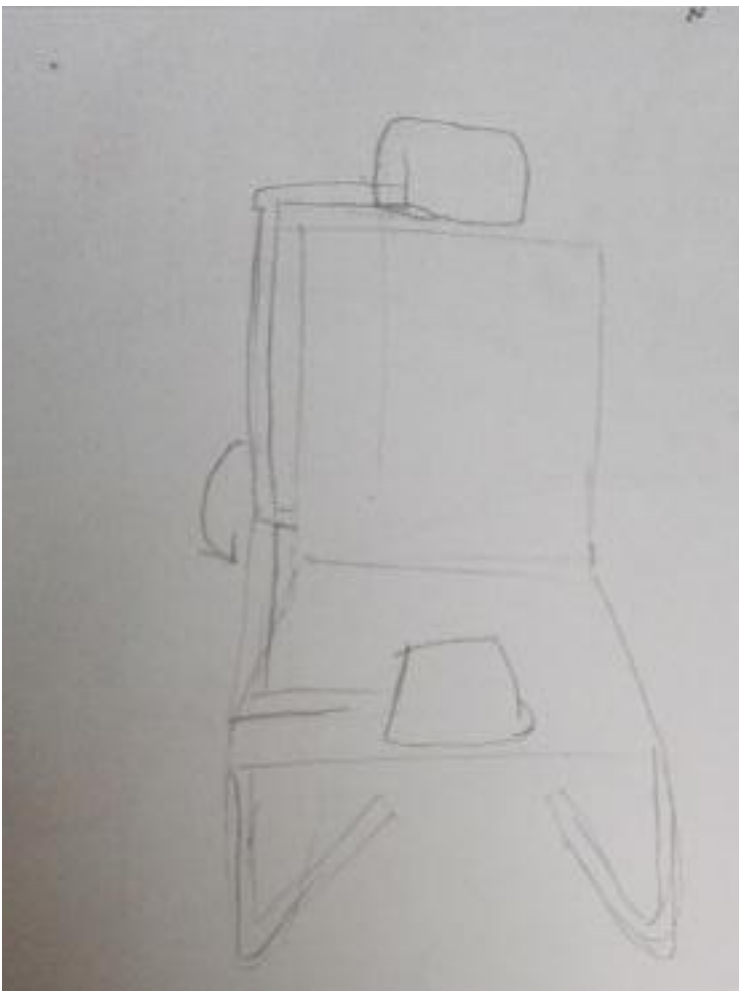
First step



The team suggested their ideas, we started with the implementation. Plotters have taken their supplies in hand and headed to the proposals:



The plan is to make a sketch of the chair to be made from different materials including plastic, metal, paper and other materials that can be recycled and re-used to create functional and cost-effective things. Furniture that we planned to do should, above all, to be aesthetically pleasing to the eye, comfortable seating, but also that its production costs as little money because our budget was not so great. To create sketches we needed a base material: a sheet of paper, compass, ruler, lead pencil and skilled hand drawer.

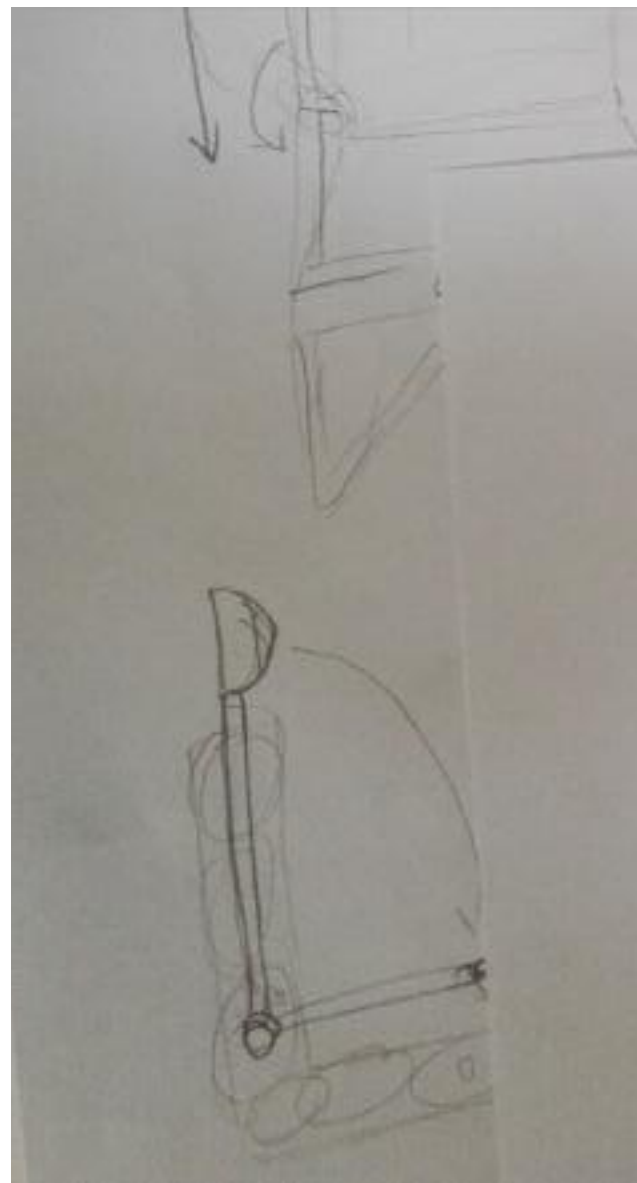
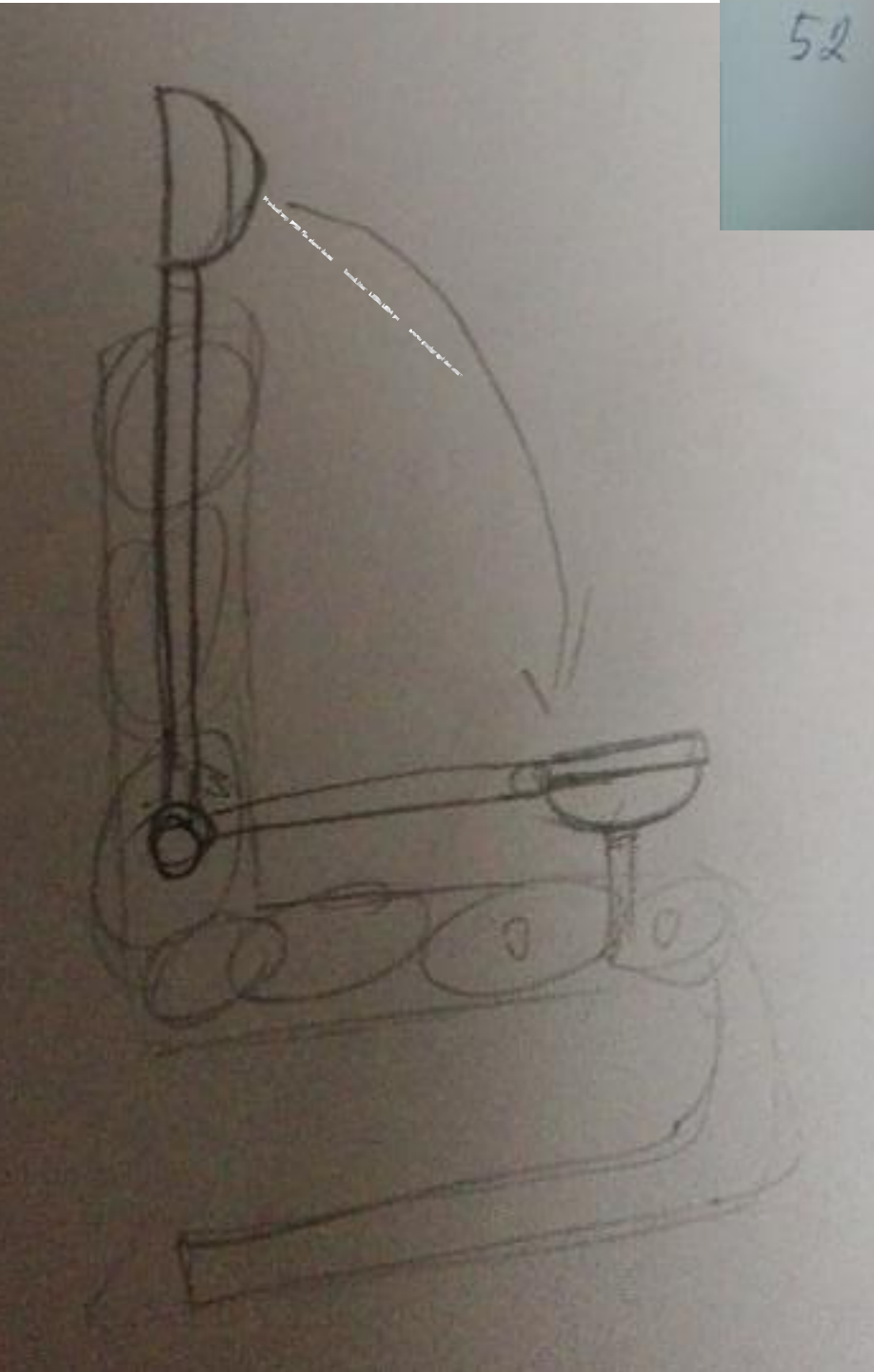


sketches chairs

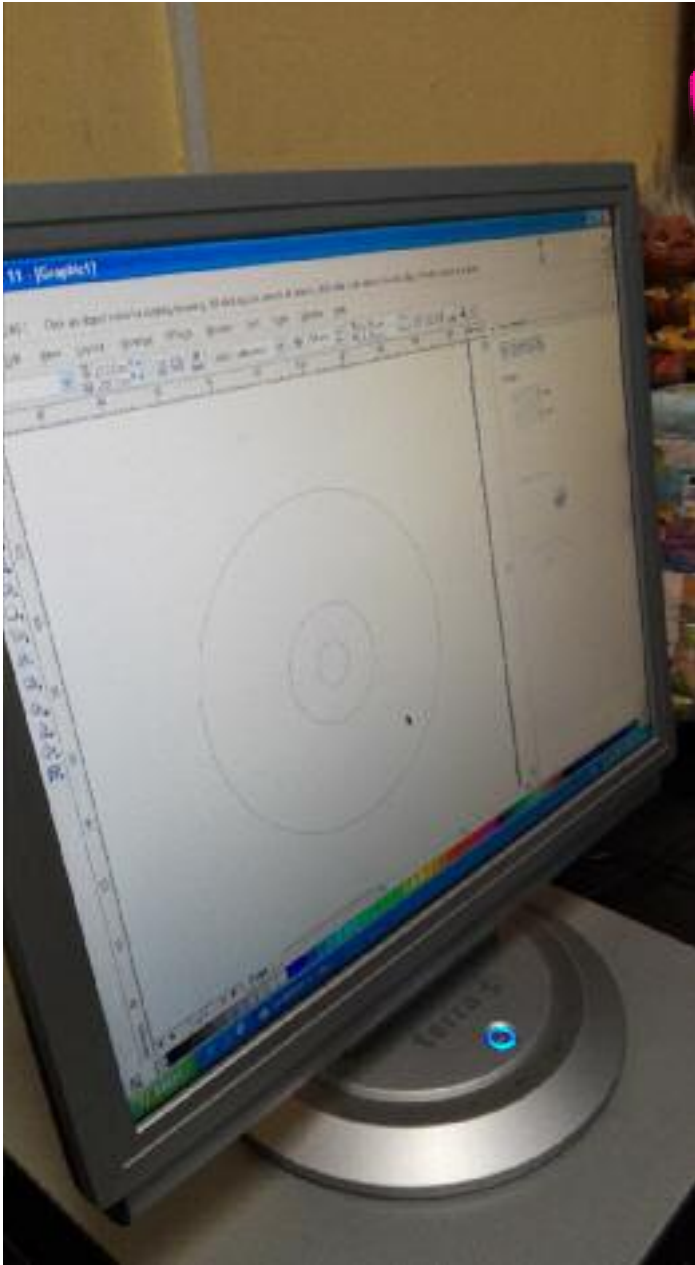
12 mm - debljina roba

ϕ - 10,5 cm

52 cm - dužina roba



Second step

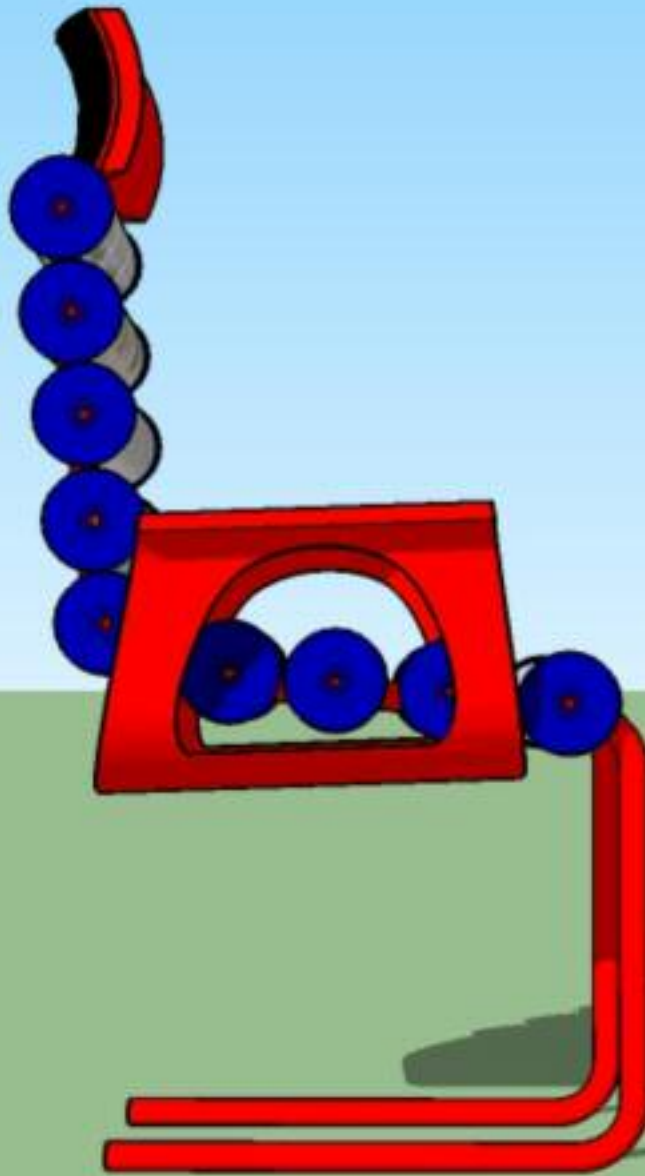


When we transfer our ideas on paper, now passes to take advantage of their knowledge in the field of graphic design and to use some of the software in order to draft transfer to our computer. Since the software we used Corel Draw, a vector program, then Google SketchUp, 3D modeling, and AutoCad. This was also the most difficult part of the task, but all can be harmonious when the arms agreement.

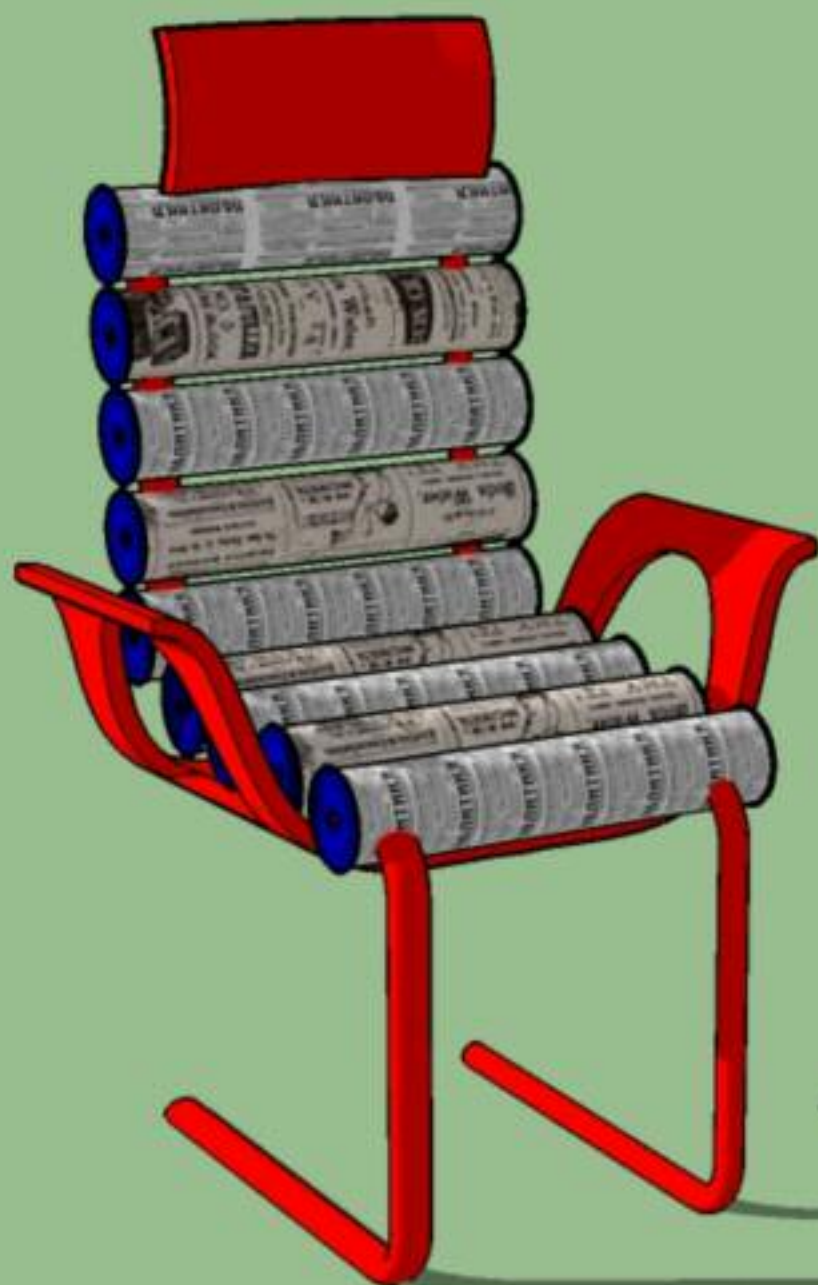


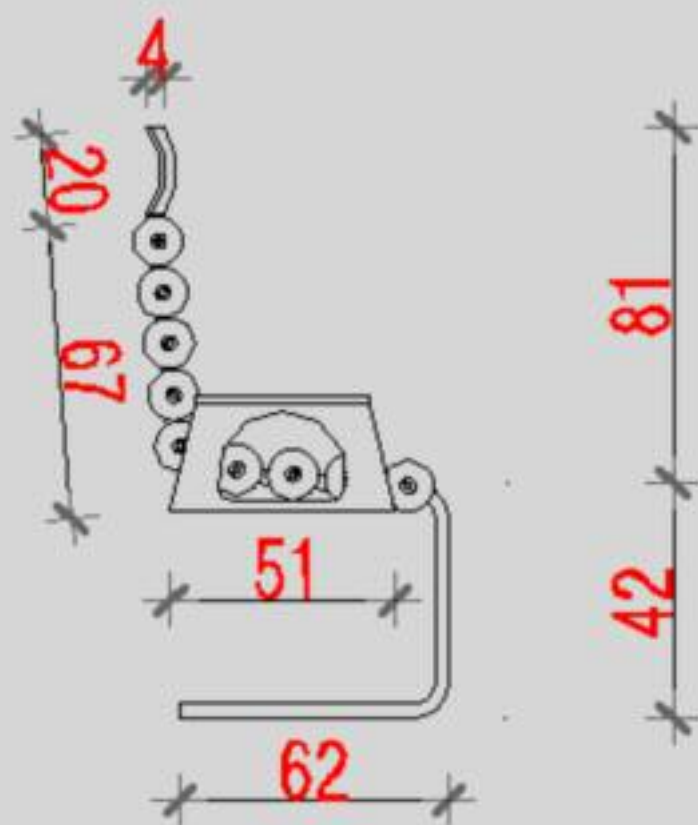
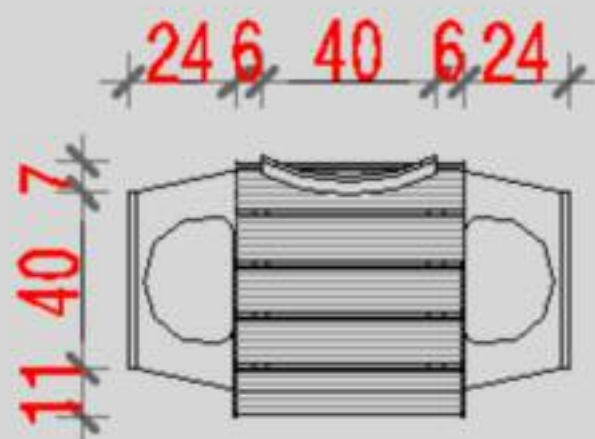
The use of 3D printers in our project

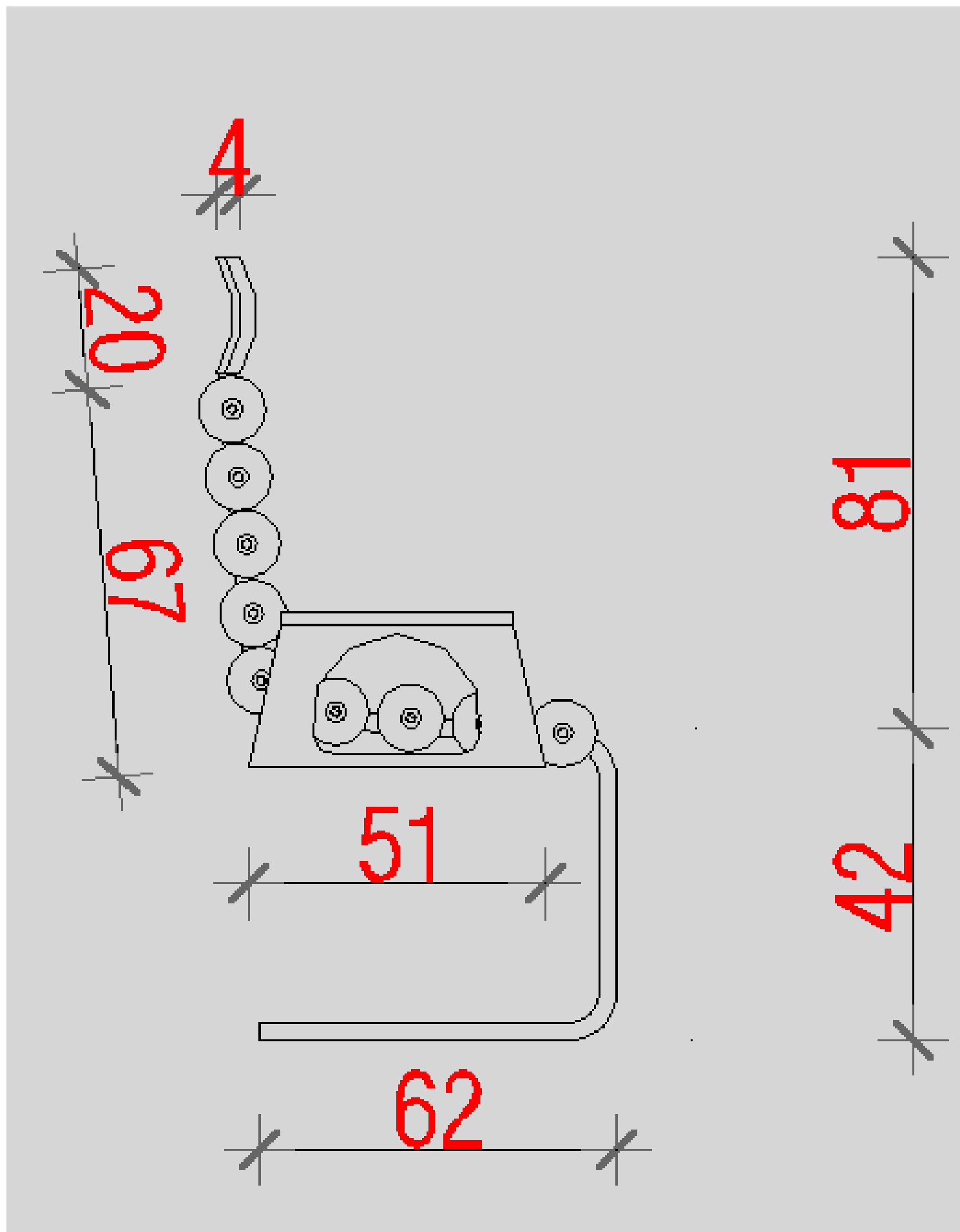
Ergonomics is very important when it comes to furniture intended for vacation, so we came up with the headrest that would be made on a 3D printer in red shades as well as handles that will be tailored to our tired arms.

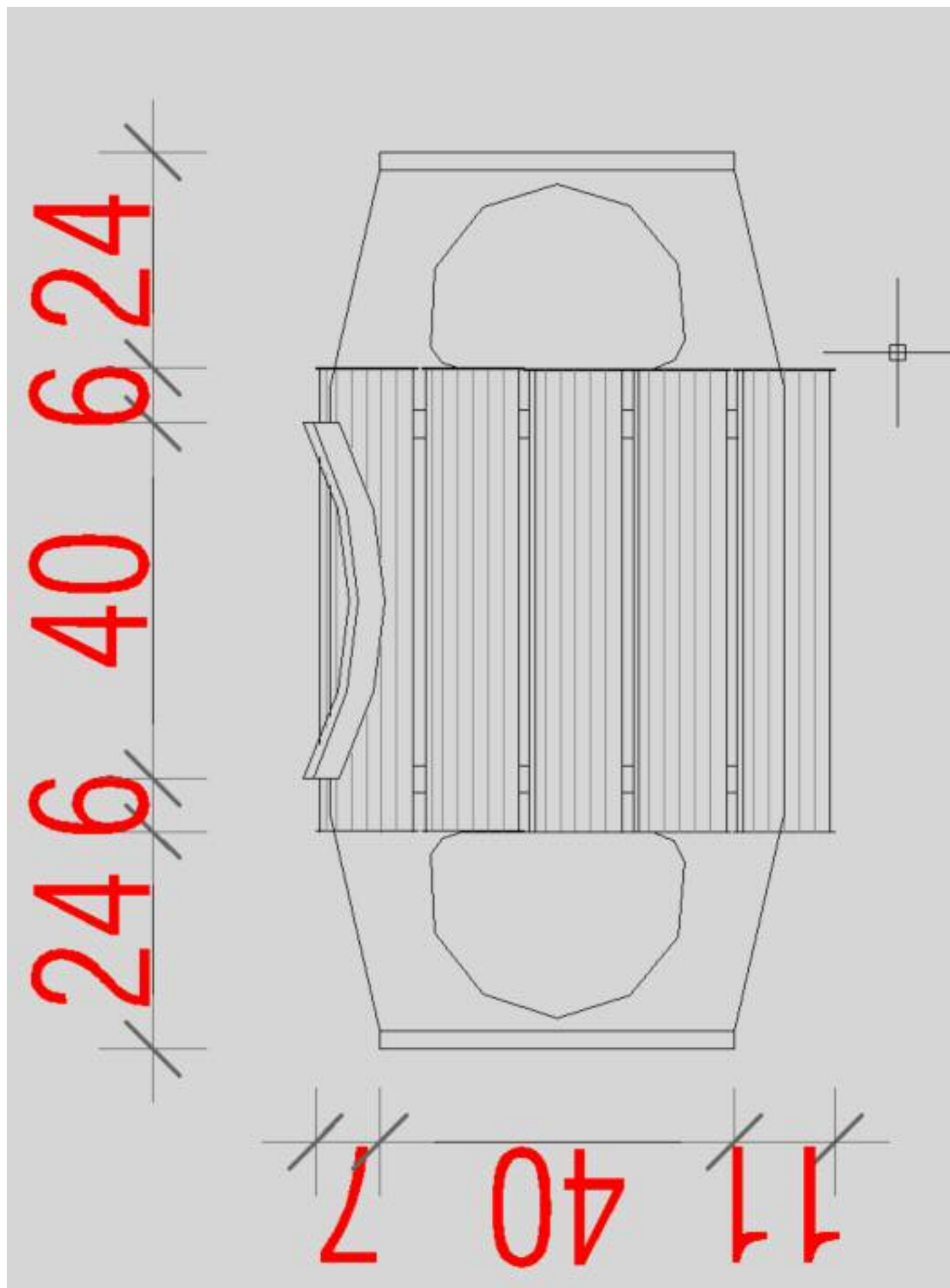












The third step

The idea was to develop a chair that could be used in everyday use. We needed to find a material that will be sturdy and able to withstand the load



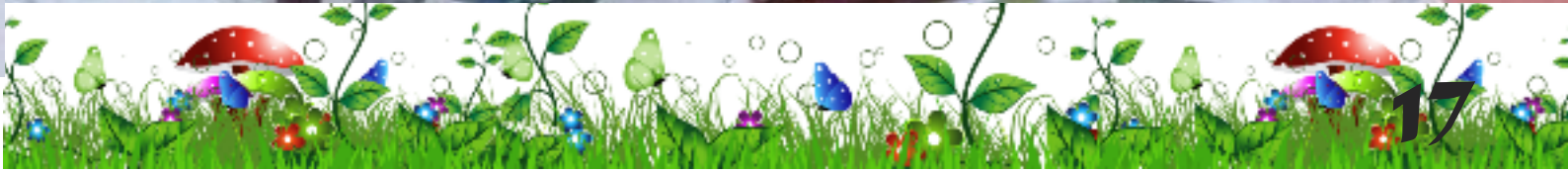
Most of the work we had about devising pedestal chair. We turned around and came up with the idea to school desk could be sacrificed and to help us.



without having to remain stable and not experience deformation. We decided to roll on which the wound film or foil, which are used daily in the printing industry. Zamisli smo i da stolica posje-
duje pokretnu metalnu dršku koja bi









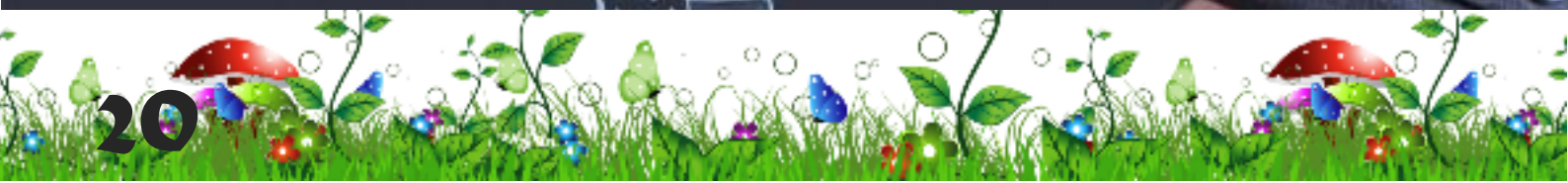
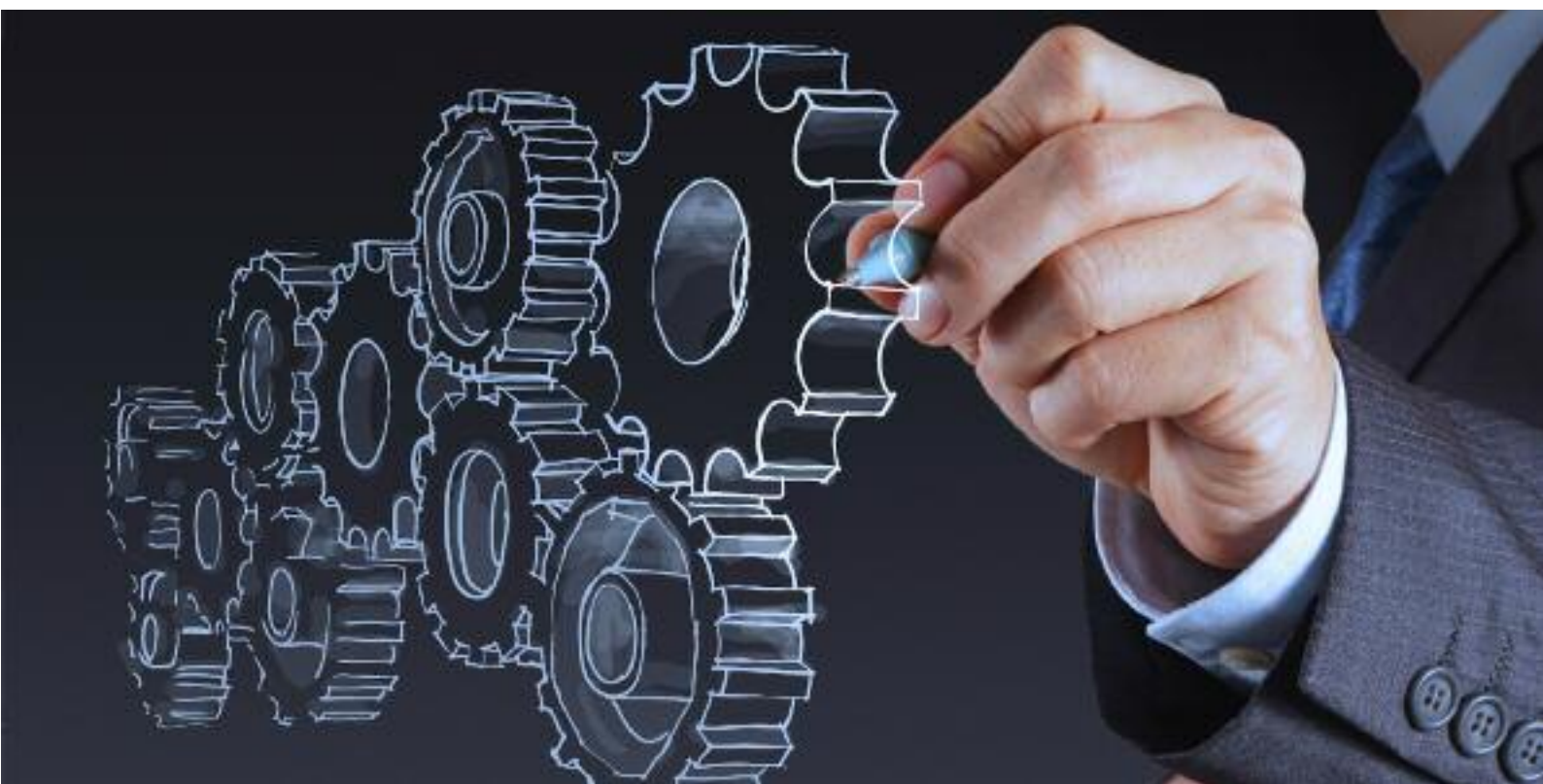


As we finished our project we needed a 3D printer which, unfortunately, do not have, so that we could finish by the end of our chair. We hope to enter into a category that deserves it for all the effort and work

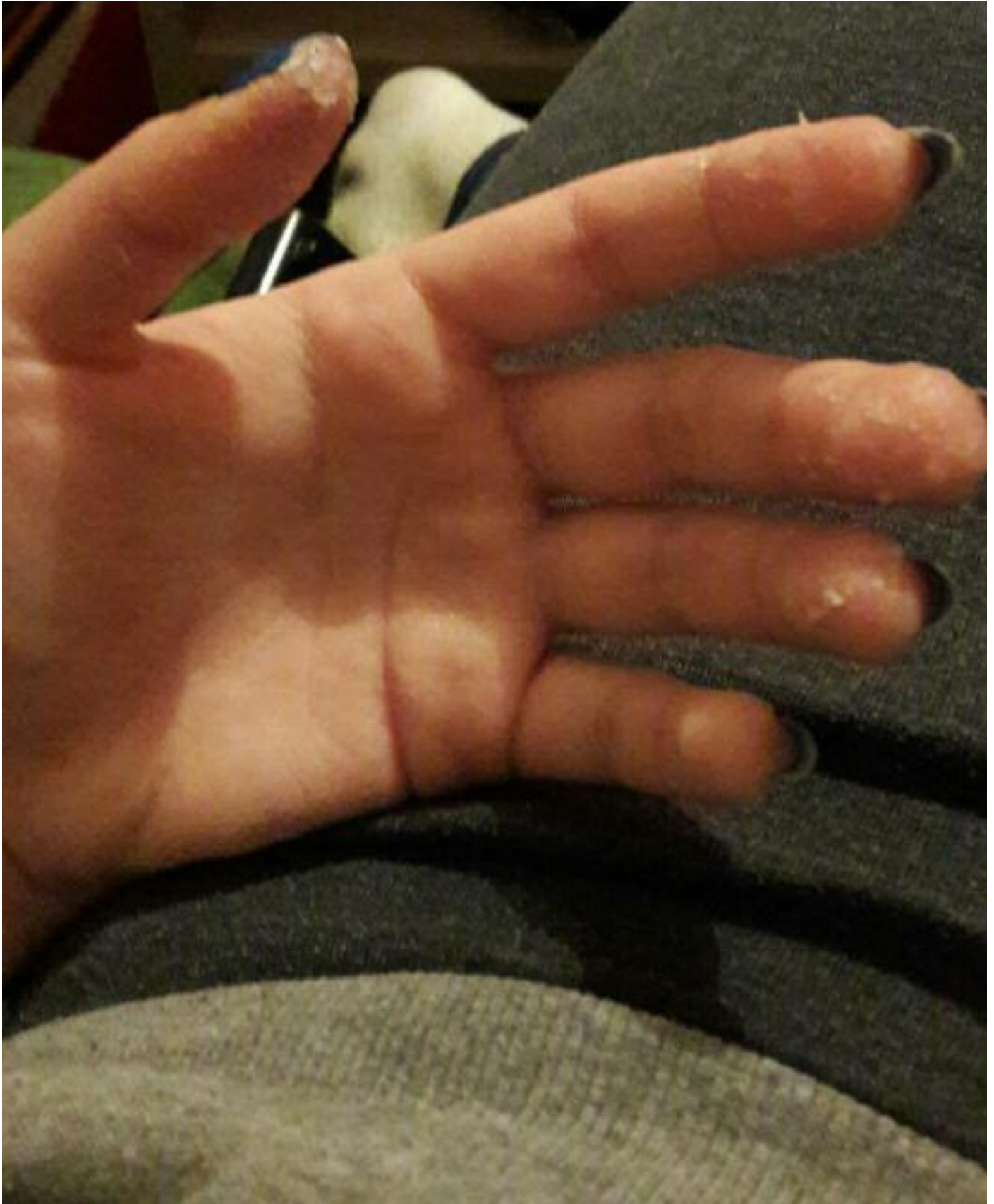
possessed a printer for our school needs and projects.

As we have excess material, we decided to create a table that can get along with our furniture.





After heavy and hard work of our creative hands look like. Beauty is pain, DO NOT
???





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