

Универзитет "Св. Кирил и Методиј" во Скопје Машински факултет - Скопје



Одбрани проекти по предметот:

ПРОИЗВОДИ ОД ПЛАСТИКА

Учебна година: 2021-2022

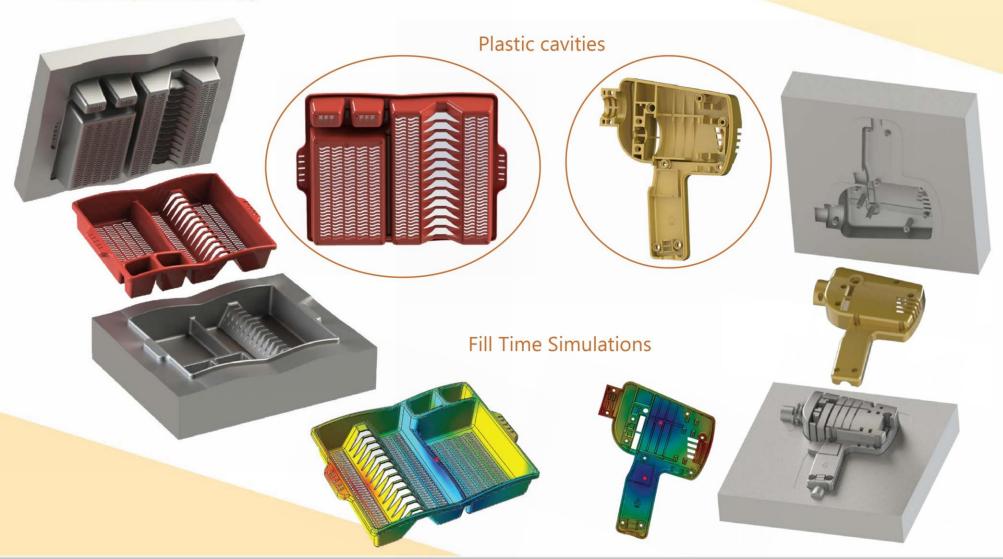
Предметен наставник: Вонр. Проф. д-р Иле Мирчески

Соработник: Асс. м-р Благоја Несторовски

Проект бр. 1: Изработка на калапно гнездо

CORE AND CAVITY DESIGN

Plastic Injection Molding



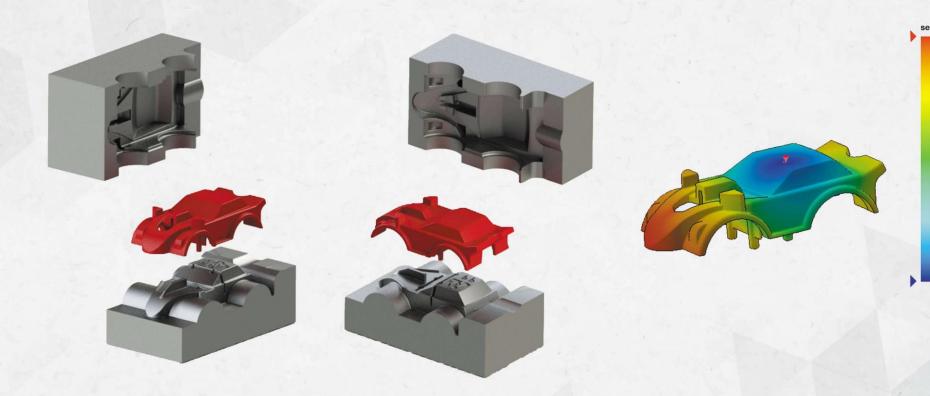


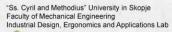




CAVITY AND CORE

Plastic mold design









0.4744

0.3795

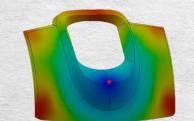
0.2846

0.1898

0.0949

4.181e-05

CORE AND CAVITY



MOLD DESIGN



Electric Toothbrush Holder





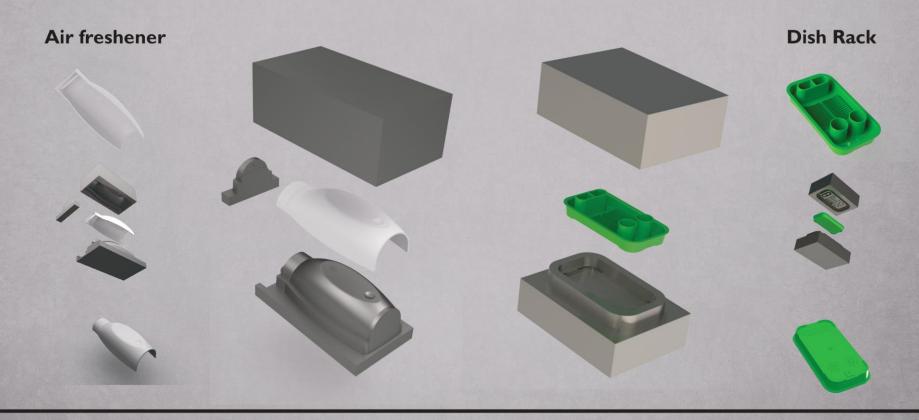




Cordless Phone Stand



CORE & CAVITY Mold Design



"Ss. Cyril and Methodius" University
Faculty of Mechanical Engineering
Industrial Design, Ergonomics and Applications Lab

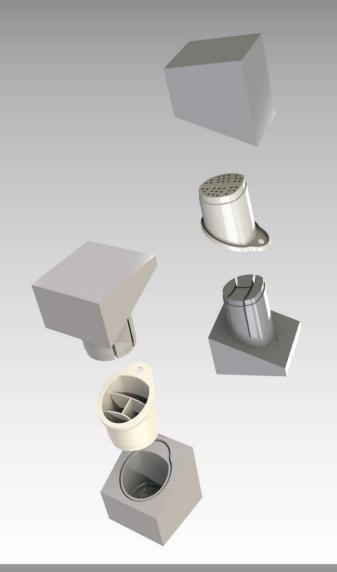








Students: Kristijan Pandev 1620 Milan Veljanov 1137 Course: Design with Plastics Leader: Prof. D-r Ile Mircheski School year: 2021/2022





















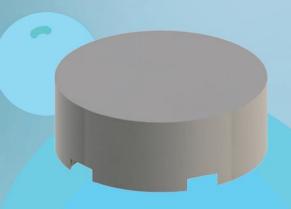




KIDS TOY















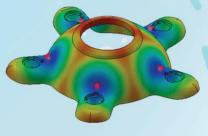


image of simulation of injection molding

"Ss. Cyril and Methodius" University in Skopje Faculty of Mechanical Engineering Industrial Design, Ergonomics and Applications Lab



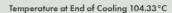
Plastic Injection Molding



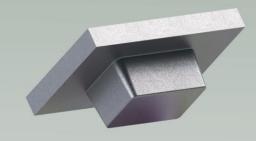
















Cooling Time 18.5 sec







"Ss. Cyril and Methodius" University in Skopje Faculty of Mechanical Egnineering Industrial Design, Ergonomics and Applications Lab



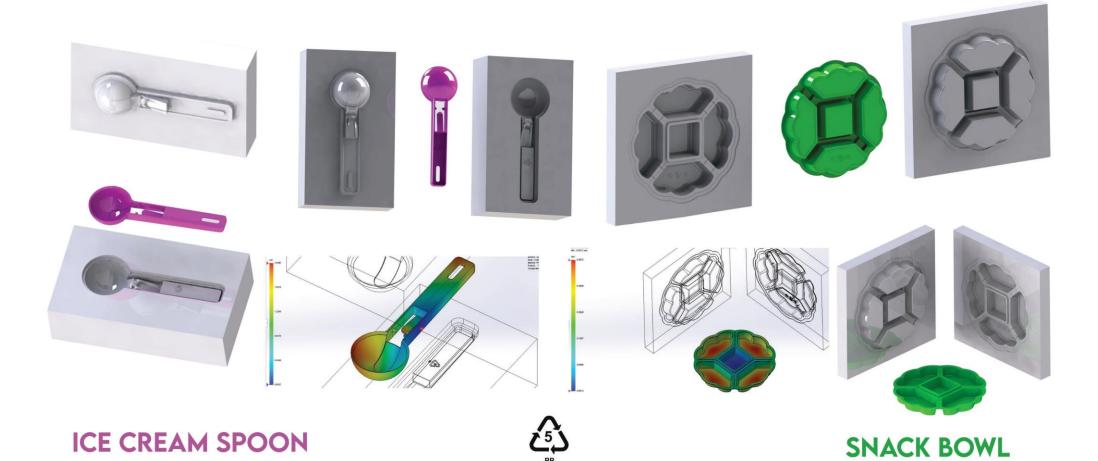






CORE & CAVITY DESIGN

PLASTIC INJECTION MOLDING









"Ss. Cyril and Methodius" University in Skopje Faculty of Mechanical Engineering Industrial Design, Ergonomics and Applications Lab





Student: Mihail Trojachanec Dorotea Popova Course: Design with Plastics Leader: Prof. D-r Ile Mircheski School Year: 2021/2022



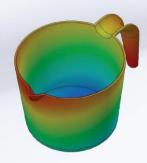




CORE AND CAVITY



MEASURING CUP



INJECT TIME SIMULATION



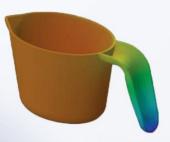
MODELS



PRESSURE AT END OF FALL SIMULATIOB







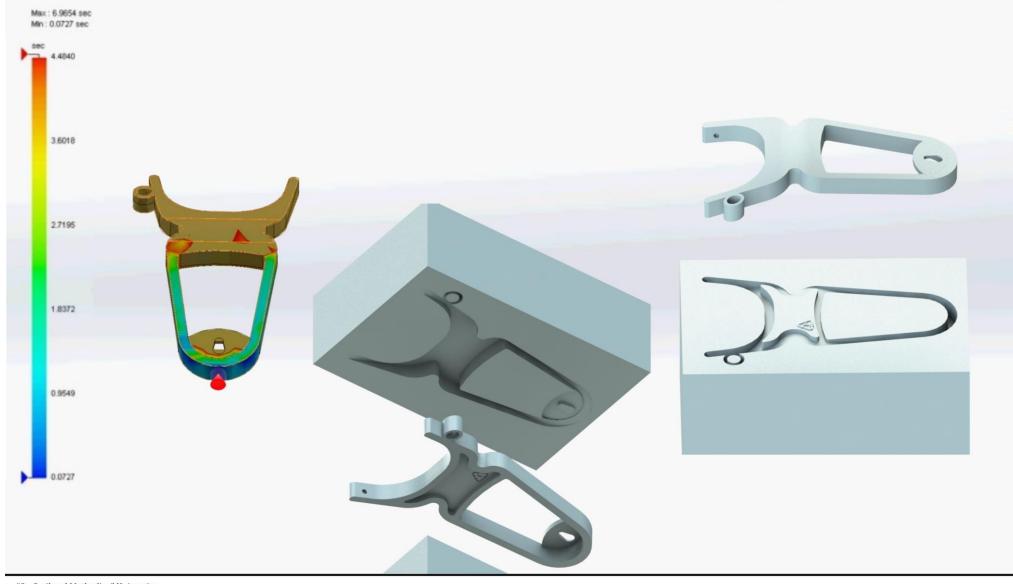
"Ss. Cyril and Methodius" University in Skopje Faculty of Mechanical Engineering Industrial Design, Ergonomics and Applications Lab

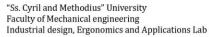






Students: Anastazija Kolevska 2648 Filip Shutarov 2637 Course: Plastic Product Design Leader: Prof. Ile Mircheski School Year: 2021/2022



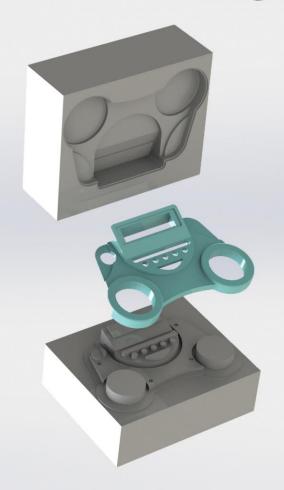


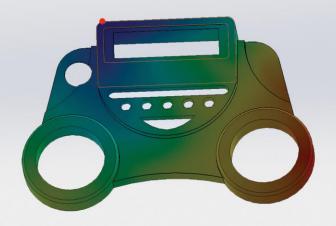




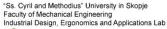


CORE AND CAVITY MOLD DESIGN RADIO/ALARM



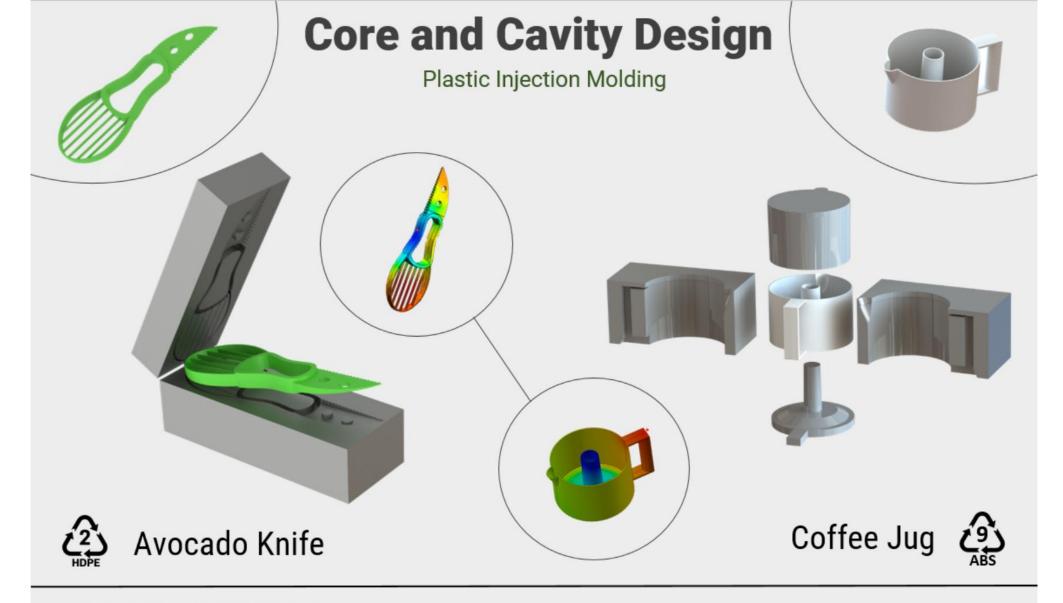












"Ss. Cyril and Methodius" University in Skopje Faculty of Mechanical Engineering Industrial Design, Ergonomics and Applications Lab









Students: Nadija Bekjiragikj 2638 Zoran Nikolov 2647 Course: Plastic Product Design Leader: Prof. Dr. Ile Mircheski School Year: 2021/2022







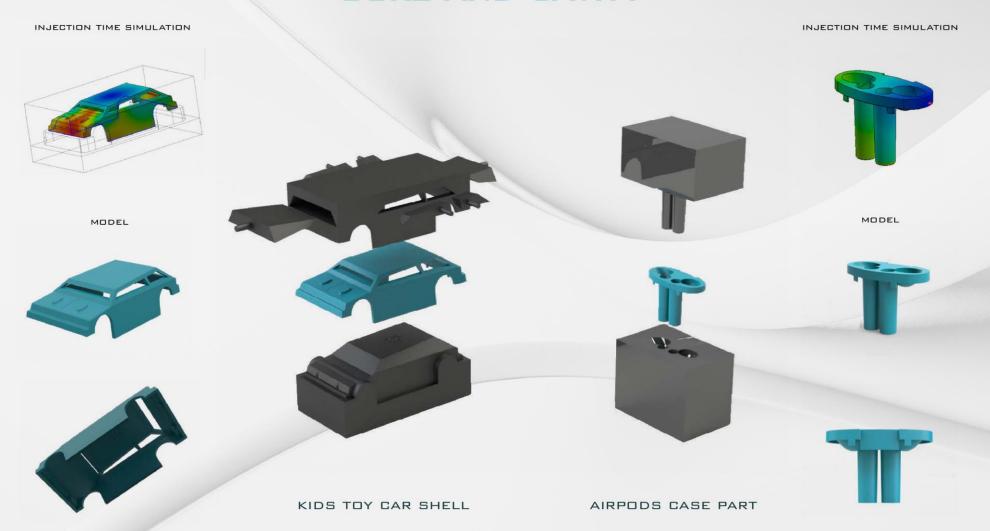




Students: Zhivko Duev IND 2401 Filip Nikolovski IND 2420 Leader: Prof. Ile Mircheski School year: 2021/2022



CORE AND CAVITY

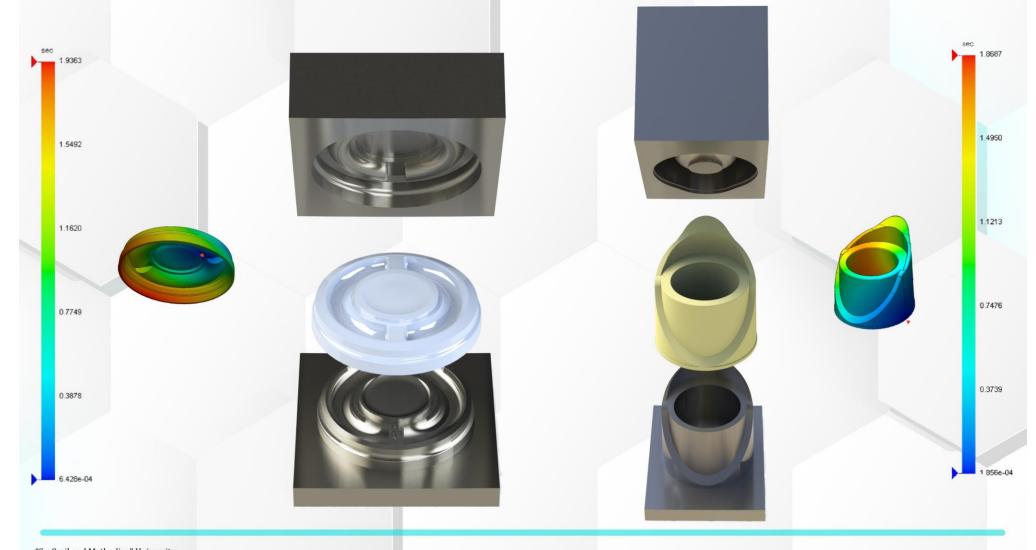


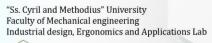
"Ss. Cyril and Methodius" University
Faculty of Mechanical Engineering
Industrial Design, Ergonomics and Applications Lab













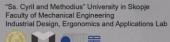






Students: Filip Novakovski 2671 Ana-Marija Andonova 2414 Course: Plastic product design Leader: Prof. Ile Mircheski School year: 2021/2022



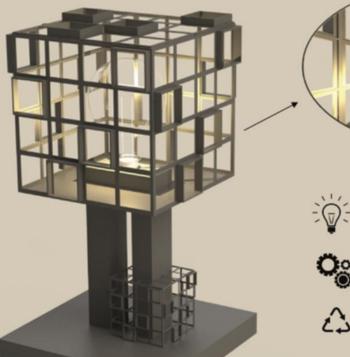


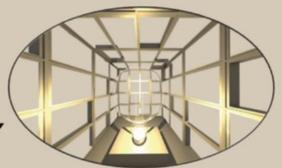


Проект бр. 2: Општа тема

Modular Lamp

See through the future







Warm ambient



Asymmetric futuristic design



98% recyclable plastic



"Ss. Cyril and Methodius" University in Skopje Faculty of Mechanical Engineering Industrial Design, Ergonomics and Applications Lab







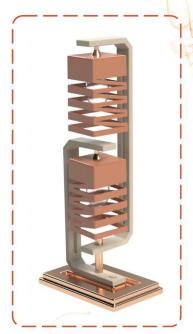


Student: Nadija Bekjiragikj Course: Plastic Product Design Leader: Prof. Dr. Ile Mircheski School Year: 2021/2022

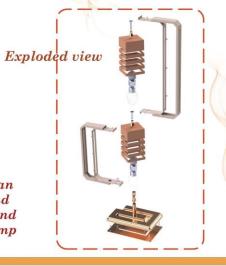
DESK LAMP

simple, elegant, unique

This lamp has unique, soft and elegant design that can make our home and atmosphere more pleasant



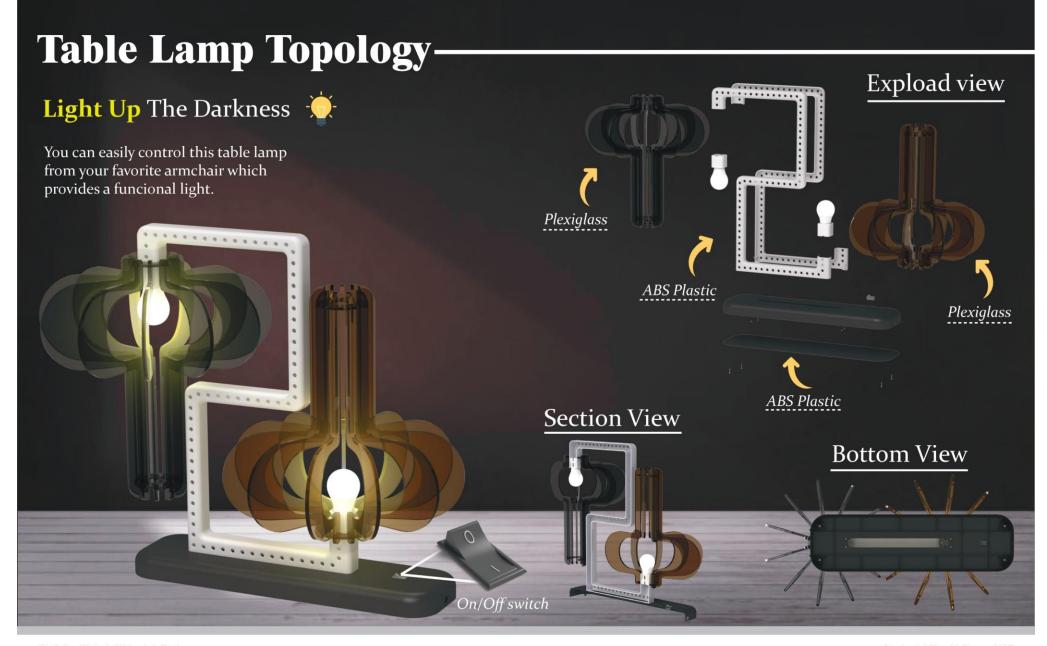
The longer handle of the lamp can rotate around fastening axis and that can give us new, different, and more interesting design of the lamp

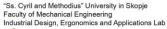












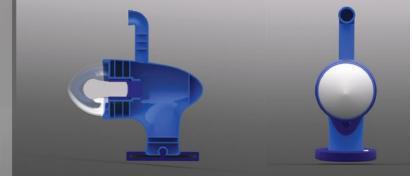




SUBMARINE LAMP

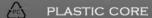
Nautilus























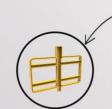


Student: Dorotea Popova Course: Plastic Product Design Leader: Prof. Dr. Ile Mircheski School Year: 2021/2022

DESK LAMP



















Used ways of joining:

- Welding joint
- Gluing joint
- Connection with metal insert
- Screw and nut connection
- Connection with self-tapping screws













LIGHT EFFECT |



EXPLODED VIEW •—



LASER CUT BOX DESIGN TRANSPARENT

"Ss. Cyril and Methodius" University in Skopje Faculty of Mechanical Engineering Industrial Design, Ergonomics and Applications Lab







Student: Zoran Nikolov 2647 Course: Plastic Product Design Leader: Prof. Dr. Ile Mircheski School Year: 2021/2022

TABLE LAMP

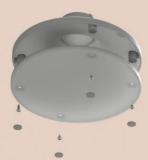
LIGHT Arc



Simple elegant lamp that brightens your desk.
Minimalistic design which makes the lamp
suitable for any room.
Has the function as a lamp and
serves as a decoration too.
Inspired by the Ball Chair by Eero Aarnio

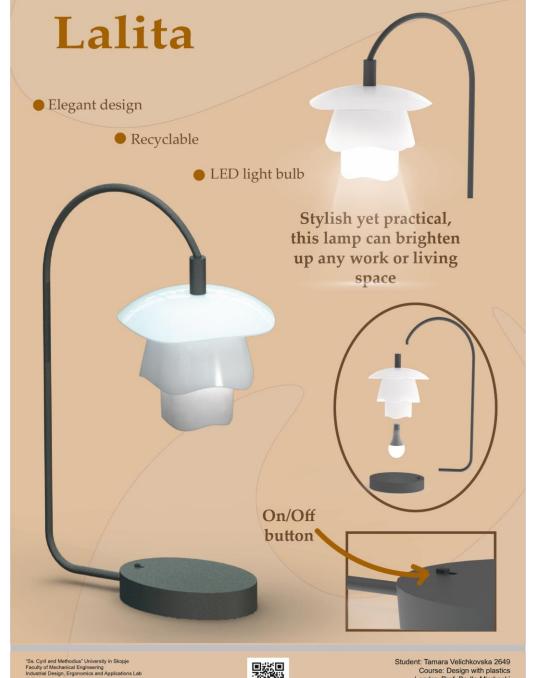


















"Ss. Cyril and Methodius" University Faculty of Mechanical engineering Industrial design, Ergonomics and Applications Lab









Students: Filip Novakovski 2671 Course: Plastic product design Leader: Prof. Ile Mircheski School year: 2021/2022

RAINBOW LAMP

LIGHTS UP THE SPACE WITH ITS SOFT PASTEL RECTANGULAR SHAPES

MADE OF NON-TOXIG ACRYLIC SHEETS USING LASER CUTTING TECHNOLOGY







THE EIGHT COLORFUL PIECES

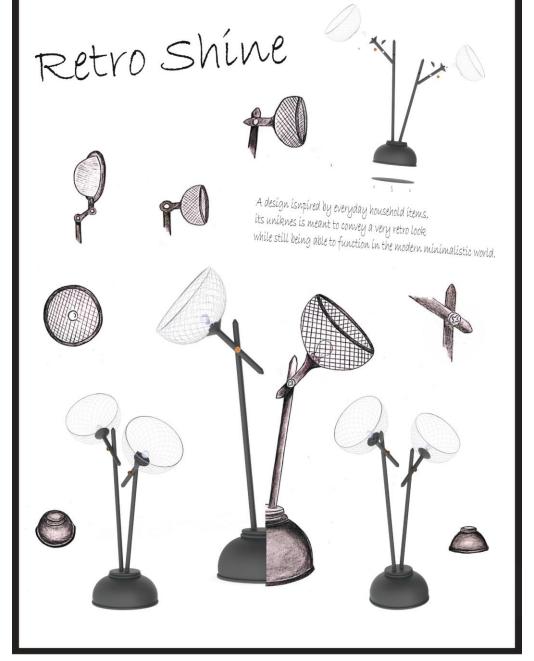
CAN BE MANUALLY SET THE WAY YOU LIKE IT

ON/OFF SWITCH LOCATED ON THE CORD

"Ss. Cyril and Methodius" University in Skopje Faculty of Mechanical Egnineering Industrial Design, Ergonomics and Applications Lab











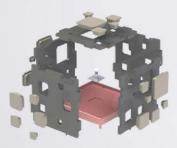


CUBUS

MODERN LAMP MADE OF PLASTIC AND STAINLESS STEEL



WHEN YOU OPEN THE FIRST ONE THE LIGHT AUTOMATICLY TURNS ON,



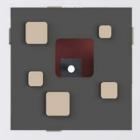
EXPLODED VIEW



THE PLASTIC CAPS WORK AS A LIGHT SWITCH. YOU CAN ADJUST THE BRIGHNESS BY OPENING AS MANY CAPS AS YOU DESIRE.



ONCE ALL THE CAPS ARE CLOSED THE LIGHT AUTOMATICLY TURNS OFF.



TOP VIEW

"Ss. Cyril and Methodius" University
Faculty of Mechanical Engineering
Industrial Design, Ergonomics and Applications Lab









Student: Mihaela Trajkovska 2664 Course: Plastic product design Leader: Prof. Dr. Ile Mircheski School year 2021/2022

Flower LAMP







Gherpe Lamp

Superstudio inspired



"Ss. Cyril and Methodius" University in Skopje Faculty of Mechanical Engineering Industrial Design, Ergonomics and Applications Lab







The red hook

Inspired by the hook shape, this product is designed from multiple plastic molds. Generally the two main parts are connected by joints that hold the all together.





The main color is red, beacuse it is inspired by its power and the way it attracts people to always look at it. The LED light is the perfect combination for a better ambient in the room.

Modern & Minimalistic



"SS. Cyril and Methodius" University
Faculty of Mechanical engineering
Industrial design, Ergonomics and Applications Lab















BUBBLE LAMP

Using spherical opposing shades allows the creation of a dynamic multi light, shielding the eye from direct glare at all angles by adding a variety of light options within a room.







