

Универзитет Св. “ Кирил и Методиј “
Машински факултет - Скопје



Одбрани проекти по предметот :
КОНСТРУИРАЊЕ СО ПЛСТИКА

Учебна година:
2014/2015

Предметен наставник: Проф. д-р Татјана Кандикјан
Асистент: Доц. д-р Иле Мирчески
Демонстратор: Ангелина Јорданоска

Проект бр. 1:
**ИЗРАБОТКА НА
КАЛАПНО ГНЕЗДО**

Project n.1
Core and cavity

Shower head



Old phone shell



PS One controller



PLASTIC MOLD DESIGN

Core and cavity design
for headphones and squeezer



Andrijana Savovska



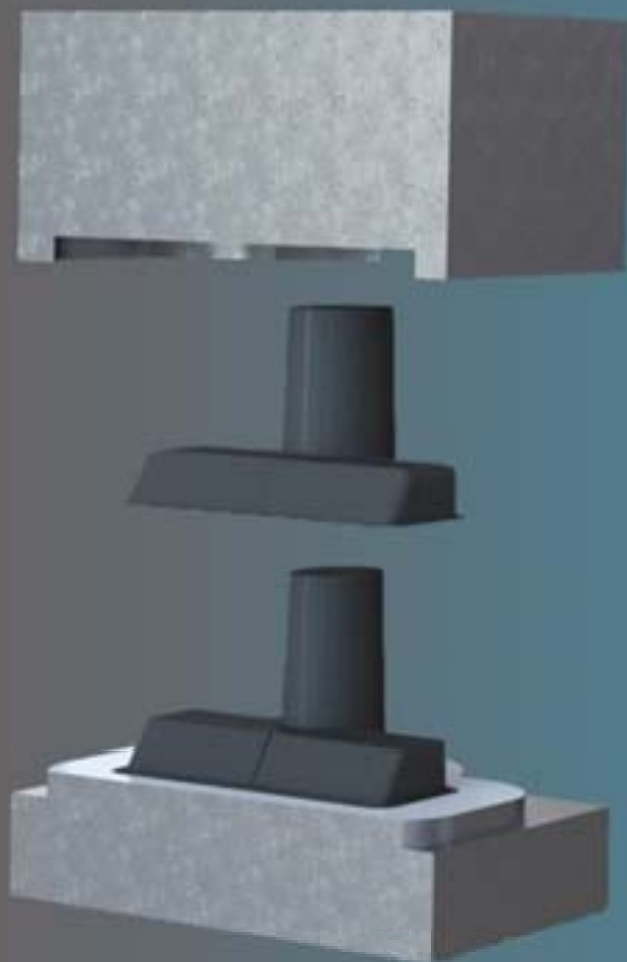
Marija Mitrovska



Elena Radeska

Vacuum cleaner part

mold



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



Student: Anastasiya Tasevska
Course: Designed with plastics
Leader: Prof. Dr. Tatjana Radoskova
School Year: 2014/2015

The Pink Barrette

Core and cavity design



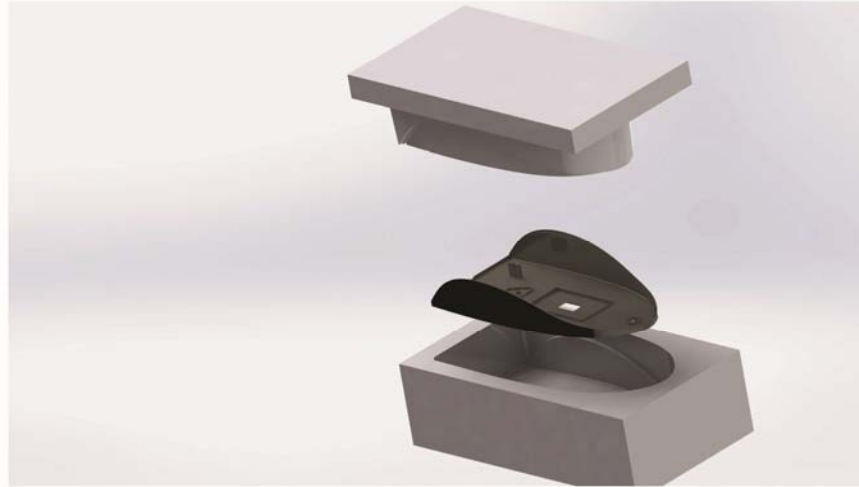


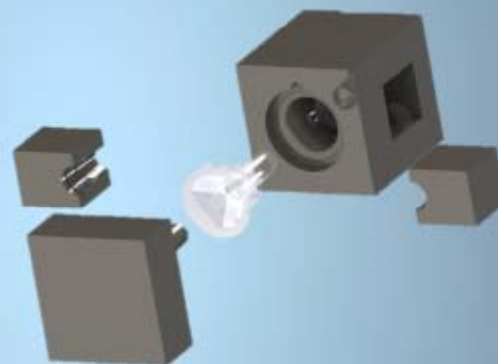
"St. Cyril and Methodius" University
Faculty of Mechanical Engineering
Industrial Design, Ergonomics and Applications Lab



Student: Ena Milanovikj
Course: Design with plastics
Learner: Tatjana Kandiljan, Ph.D.
Ass. Ilie Mirceski, M.Sc.
School year: 2014/2015

Mouse mold





Калап



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



Student: Jana Naumovska
Course: Design with Plastics
Leader: Prof. Tatjana Kandikjan
Ass. Ilie Mircheski
School Year: 2014/2015

Core & Cavity Design

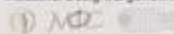


Core Cavity Design

Manufacturing molds for kitchen equipment



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



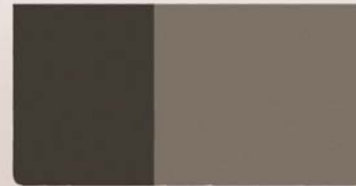
Students: Mladen Joleki, Petar Avramovski, Ivana Jordanoska
Course: Design with Plastics
Leaders: Prof. Dr. Tatjana Kandikjan/ass. doc. Ilie Mirceski
School Year: 2014/2015

Plastik Product Design

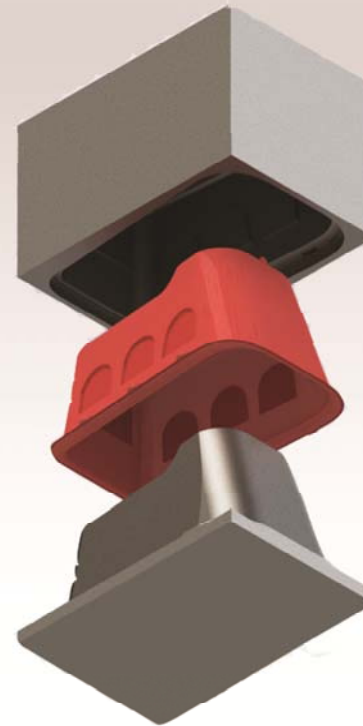
Core and Cavity design for injection molding



CORE AND CAVITY DESIGN



TOY PART



Проект бр. 2:
**ДИЗАЈН НА ОПАКОВКА
ЗА ОЧИЛА**

KLINCH

Plastic case for glasses

*Design of plastic case for glasses
with an ultramodern form and sleek lines .
Inspired from the shape of a spaceship . it combines
innovative function and fresh design.*



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



Student: Antonio Cvetkovski
Course: Design with Plastics
Leader: Prof. Dr. Tatjana Kandžan
School Year: 2014/2015

BOURSE

elegant.
simple.



keep your precious
glasses in lovely and
feminine case



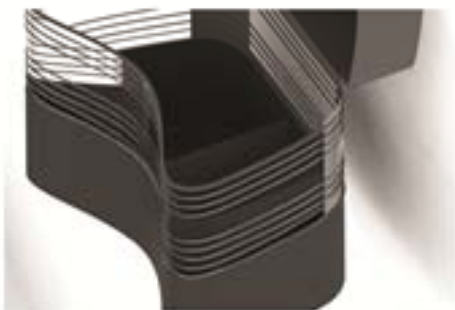
"Ss. Cyril and Methodius" University
Faculty of Mechanical Engineering
Industrial Design, Ergonomics and Applications Lab



Student: Bojana Jovanovska
Course: Design with Plastics
Leader: Prof. Dr. Tatjana Kandikjan & Prof. Ile Mircheski
School Year: 2014/2015

Glasses CASE SWIPE

Plastic case made to fit
two pair of glasees.

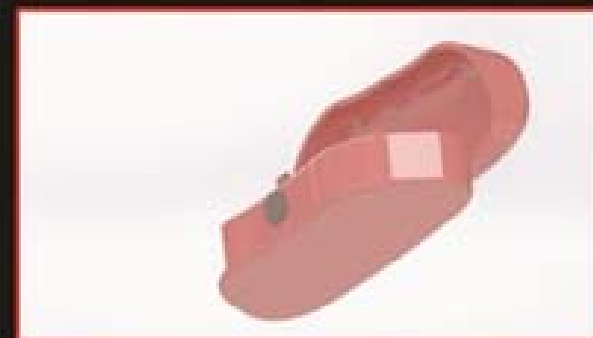


This multifunctional case is ideal
solution for people who use
sunglasses and glasses for seeing.
Whit this product you save space and
you will have unique , modern case.



Glasses Case

Red-Eye





Innovative design of glasses case.

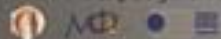
Inspired by 'yin & yang' the symbol for good and bad .

Keeps your glasses always safe.

Black Swan



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



Student: Pepita Pinderova
Course: Design with Plastics
Leader: Prof. Dr. Tatjana Kandikjan
School Year: 2014/2015

The Leaf

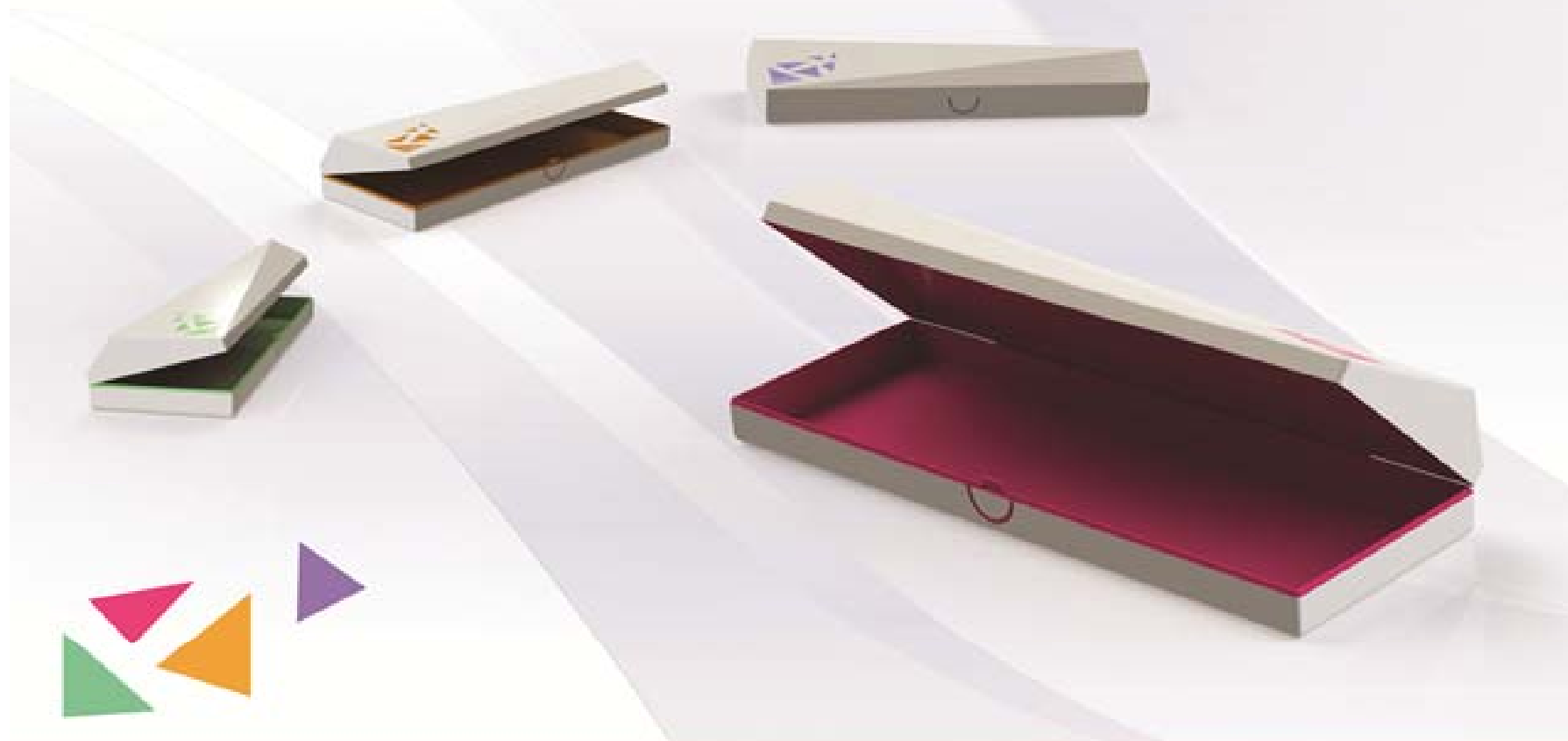
Sunglasses Case



Roberta Kamchevska, 693
Leader: prof. Tatjana Kandikjan
Ile Mircheski
Course: Design with plastics

joie EYE WEAR DESIGN

ABS glasses case available in many colours



NEST

SUNGLASSES CASE

Luxury designed and produced with
3D PRINTING TECHNOLOGY
from finest materials



PARARGE

GLASSES CASE
DESIGNED USING THE HYDROGRAPHICS TECHNOLOGY



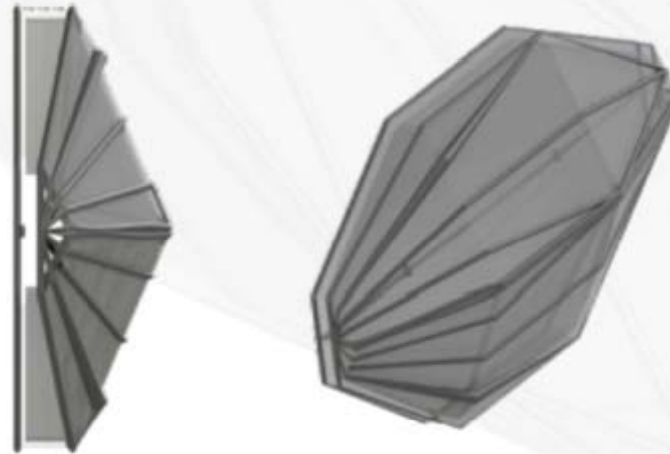
HYDROGRAPHICS IS A METHOD OF APPLYING PRINTED DESIGNS TO THREE-DIMENSIONAL SURFACES BY DIPPING THE PART INTO WATER WITH POLYMERIC FILM WHICH MAKES THIS GLASSES CASE :

- DURABLE
- SCRATCH AND UV RESISTANT
- GLOSSY
- AFFORDABLE

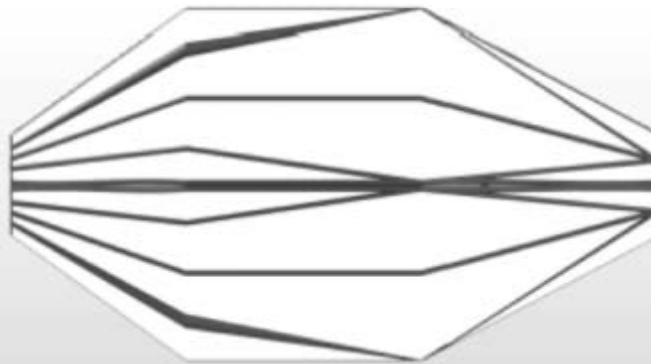


Wirestone

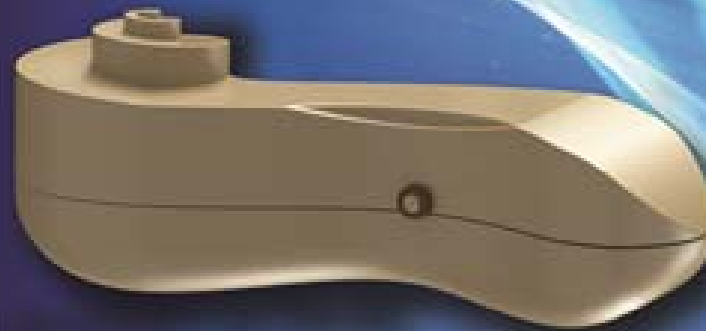
sunglasses case design



Let the wire define the form



Glasses Case In pursuit of Elegance



- Simple
- Functional
- Hinge Mechanism

Inspired by
the spiral form of
the sea shells

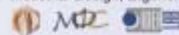


—Antares—

Sunglasses case design



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



Student: Darko Popovski
Course: Design with Plastics
Leader: Prof.Dr.Tatjana Kandikjan
School Year: 2014/2015

CRYSTALYS

*A new revolutionary concept
in the world of glasses cases*



*The opening rotates along
diagonal axis , giving the box
a uniqueness and sense of style*



SEASHELL CASE



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



Student: Nadica Milutinovikj
Course: Design with Plastics
Leader: Tatjana Kandikjan
Ile Mircevski
School Year: 2014/2015

*Inspired by the beauty of the swan,
this is a perfect
glasses case
for elegance lovers*



Plastic Product Design

Plastic case for glasses

Stylish

Modern

Elegantly



Metal Texture



Wood Texture



SURFACE™

sunglasses hardcase

easy to open

For BRAND
use only

high quality
sunglasses

+ ADD ON

five-star safety

fits everywhere

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



Student: Veliko Nestorovski
Course: Plastic Product Design
Leader: Prof. Dr. Tatjana Kandikjan
School Year: 2014/2015

Проект бр. 2:
ДИЗАЈН НА КАЦИГА

REDDISH

Bicycle helmet

Basic safety precaution
that parallelly gives you
comfort and safety.



Galaxina

bicycle helmet

- Aerodynamic design
- Lightweight
- Durable
- Shock absorbent



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



Student: Anzhelika Todorova
Course: Design with plastics
Leader: Prof. Dr. Tatjana Kandijska
School Year: 2004/2015



Silver Falcon

- your bicycle helmet that keeps the air flow for speed



AZTECH PROTECT BICYCLE HELMET



Protective helmet for thrill seekers, thirsty for adventure. Inspired by the Aztec civilization, this innovative helmet design incorporates the latest high tech materials. Using enhanced features, this design has a fresh and unique approach to professional cycling.

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



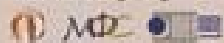
Student: Bojan Boshovski
Course: Plastic product design
Leader: Prof. Dr. Tatjana Kandikjan
Assistant: Dr. Ilie Mircheski
School Year: 2014/2015

OCTAL BICYCLE HELMET

DESIGNED TO ENSURE A GOOD RIDE



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



Student: Elena Radeska
Course: Design with Plastics
Leader: Prof. Dr. Tatjana Kandikjan
Ass: Doc. Dr. Ilie Mircheski
School Year: 2014/2015

Race helmet

Max Speed



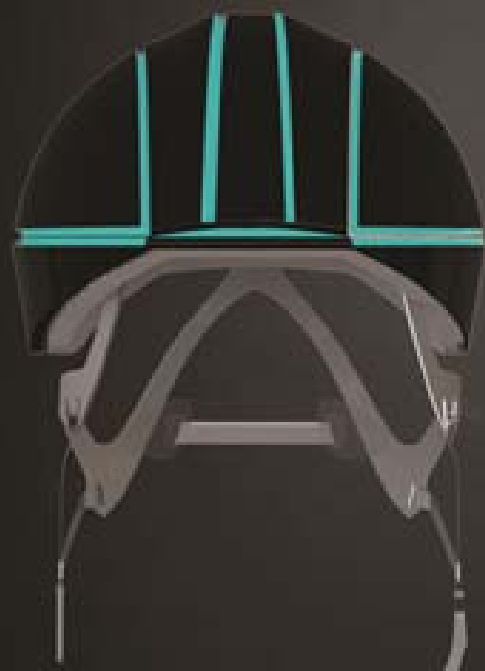
University of "St. Cyril and Methodius"
Faculty of Mechanical Engineering
Industrial Design, Ergonomics and Applications Lab

Student: Ivan Avramov
Course: Design with Plastics
Leader: Prof. Dr. Tatjana Kandikjan

DOUBLE H

bicycle Helmet, inspired by Hands, will protect your head





ORION

Drive all night but drive safely
with Orion bicycle helmet - lightning protection

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



Student: Marija Mitrovska
Course: Design with Plastics
Leader: Prof. Dr. Tatjana Kandikjan
School Year: 2014/2015

SPIDER BICYCLE HELMET DESIGN



The Spider bicycle helmet
offers suitable protection for
all users

The part on the back of the helmet
is used to adjust the inner part of
the helmet, according to the size
of the user's head



Phantom

helmet



YOUR MOUNTAIN PATHS OF
CHOICE ALTERNATE BETWEEN SUNNY, DESERT
CHAPARRAL AND PINE-SHADED FOREST, THEN
Pantom is your helmet.



Because a helmet isn't just a
helmet.

It's an insurance policy against your
need for **ADVENTURE**.



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



Skopje 2014

Student: Martin Gjorgjiev
Course: Plastic product design
Leader: Prof. Dr. Tatjana Kandikjan
Ass. Ilie Mirchevski
School Year: 2014/2015

BICYCLE HELMET

HALF FULL - SHELL HELMET

- LIGHTWEIGHT PLASTIC SUNGLASSES
- EAR RUBBERS FOR INCREASED HEARING
- FLASHLIGHT FOR AN INCREDIBLE NIGHT ADVENTURE



THE ULTIMATE MULTIFUNCTION HELMET

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



Student: Mihail Chepreganov
Course: Design with Plastics
Leader: Prof. Dr. Tatjana Kandikjan
Assistant: Ile Mircheski
School Year: 2014/2015

V - HELMET

Urban Biking



Cooling system



FISHTAIL HELMET

LIGHTNESS IN THE AIR





The appropriate
helmet that offers
versatility, allows
freedom of use in
multiple settings

DUCK RUSH



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



Student: Anja Nikolovska
Course: Design with Plastics
Leader: Prof. Dr. Tatjana Kandlikova
School Year: 2014/2015

ENDURO

BIKE HELMET



A bike helmet
with unique design,
inspired by the
smooth design of
the bugatti veyron
and the tire tracks



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



Student : Darjan Kolevski
Course : Design with Plastics
Leader : Prof. Dr. Tatjana Kandikjand
Assistant : Bb Mircevska
School Year : 2014/2015



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



Student: Ena Milanović
Course: Design with plastics
Lectured: Tatjana Kandikjan, Ph.D.
Ass. Ilie Mirceski, M.Sc.
School year: 2014/2015

MEET THE SPARTAN



*Bike helmet inspired by spartan warrior helmets.
Designed for dynamic and sporty oriented people.
Line design, modern, light and safe.
Made from polycarbonate and polycarbonate.*



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



Skopje, 2014

Student: Darko Blizoski 249
Course: Products of plastics
Teacher: Prof. Dr. Tatjana Kaniškova
Assistant: Dr. Miroslav

BICYCLE HELMET

TONGA Sport Helmet



The Obsession Never Goes Away



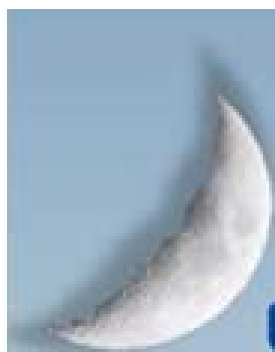
ORCALE *bike helmet*



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



Student: Darko Gjorgjiev
Course: Design with Plastics
Leader: Prof. Dr. Tatjana Kandikjan
Ass: Ilie Mircheski
School Year 2014/2015



Space Helmet

Bicycle helmet



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

Student: Jana Naumovska
Course: Design with Plastics
Leader: Prof. Tatjana Kandikjan
Asst. Ilija Mirceski
School Year: 2014/2015



FALCON HELMET



A HELMET IN NEED,
IS A HELMET INDEED



Sagitta

Bicycle helmet



IT'S NOT
ABOUT THE
DESTINATION.

IT'S ABOUT
THE RIDE.



NEW LIFE BIKE HELMET



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



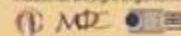
Student: Stefan Marinovikj 260
Course: Design with Plastics
Leader: Prof. Dr. Tatjana Kandžijan
School Year: 2014/2015

RUNHERMES 3000

the God of sports



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



Student: Vladimir Jankovski
Course: Design with Plastics
Leader: Prof. Dr. Tatjana Kandikjan
School Year: 2014/2015