



Одбрани проекти по предметот:



ПРОИЗВОДИ ОД ПЛАСТИКА

Учебна година: 2024-2025

Предметен наставник: Проф. д-р Иле Мирчески Соработник: Асс. м-р Благоја Несторовски

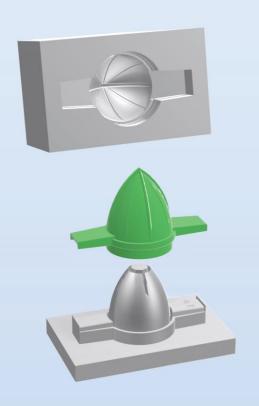
Проект бр. 1: Изработка на калапно гнездо

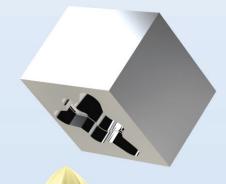
CORE & CAVITY DESIGN HAIRCLIP & POURING CUP Students: Teodora Gjeorgjievska & Andrea Noveva Leaders: Ph.D. Ile Mircheski & M.A. Blagoja Nestorovski Course: Design with plastics Ss. Cyril and Methodius University in Skopje Faculty of Mechanical Engineering November, 2024



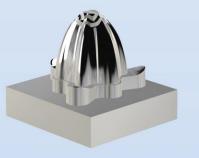
CORE AND CAVITY DESIGN

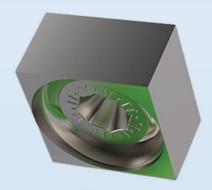
LEMON SQUEEZERS



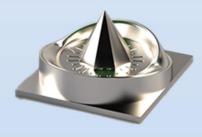


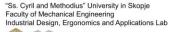














CORE & CAVITY MOLD DESIGN Plastic Injection Molding Kids Toy Dustpan Water Gun







CORE AND CAVITY DESIGN

MOLD DESIGN

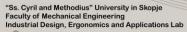






CALIPER STORAGE CASE









CORE AND CAVITY DESIGN PLASTIC LID DESIGNS







CORE & CAVITY DESIGN







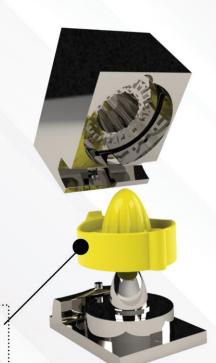
REAR COVER OF REMOTE CONTROLLER

Nikolaj Todoroski

3015

3034 Ivanovska

HANDHELD SQUEEZER



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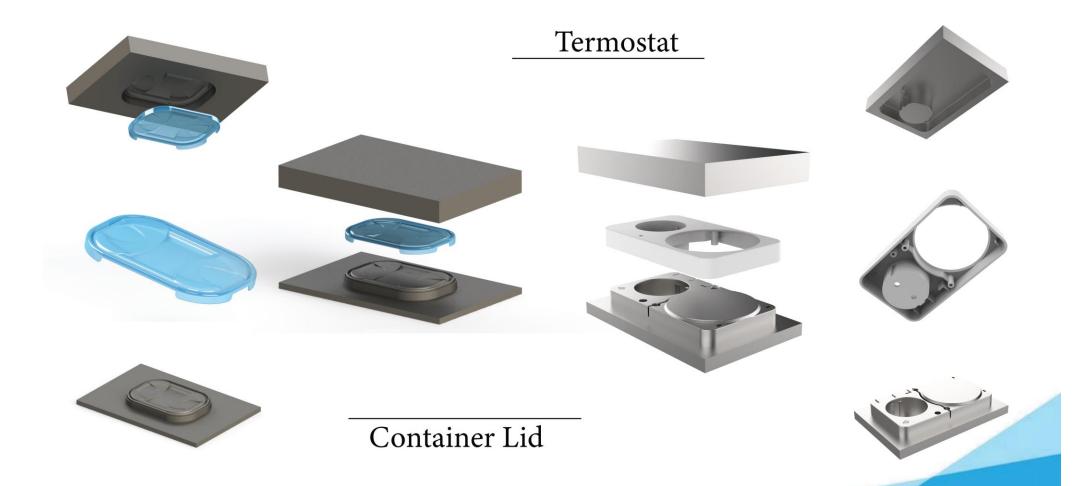


Plastic Injection Molding



Back Part of a Night Lamp









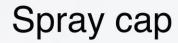
CORE & CAVITY DESIGN

Plastic Injection Modeling



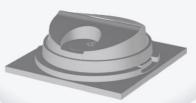






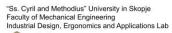






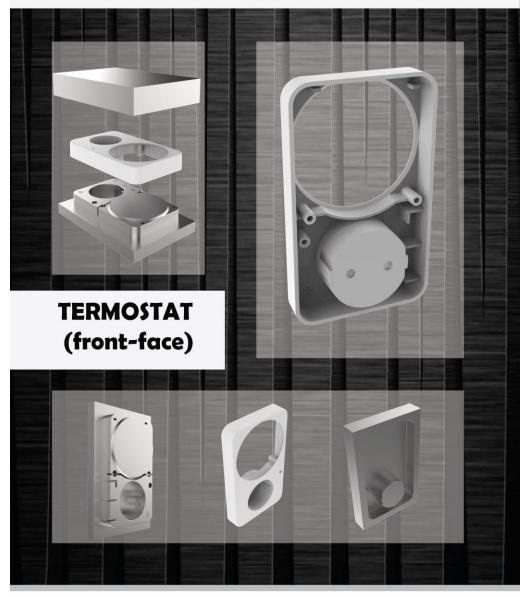
Cup lid













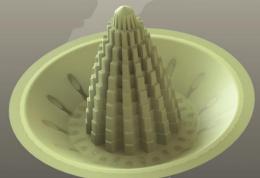




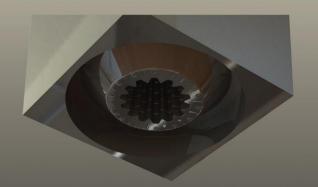




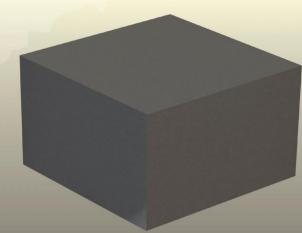
CORE AND CAVITY MOLD DESIGN Lemon squeezer

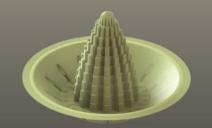


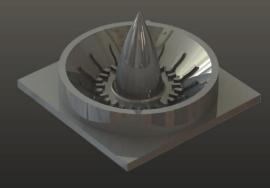


















Plastic Injection Molding







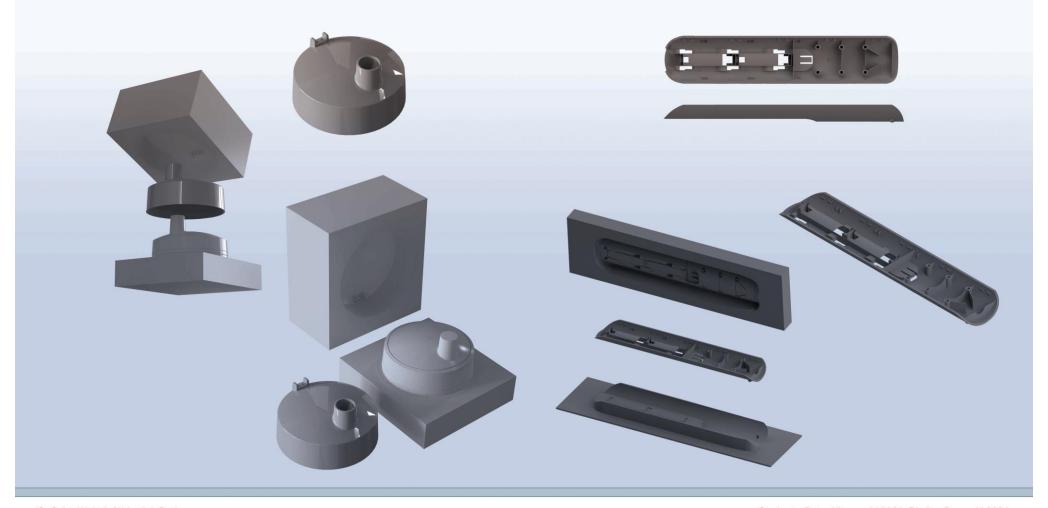
Sand Shovel -Toy for kids



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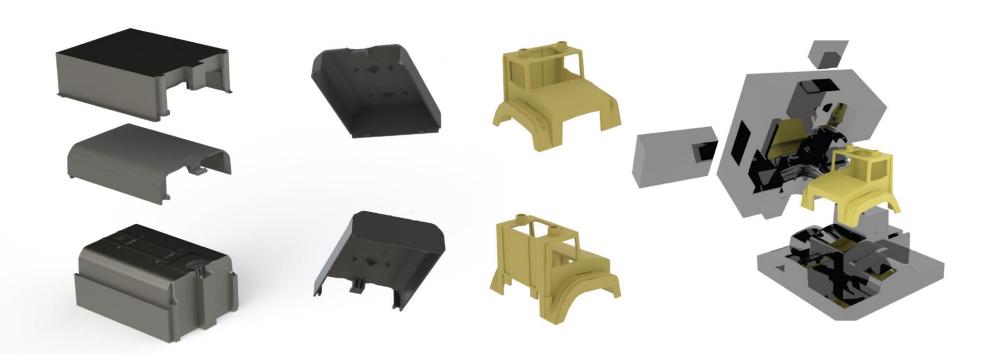
BOTTLE CAP & TV REMOTE BOTTOM PART







Toy truck part and TV remote cap



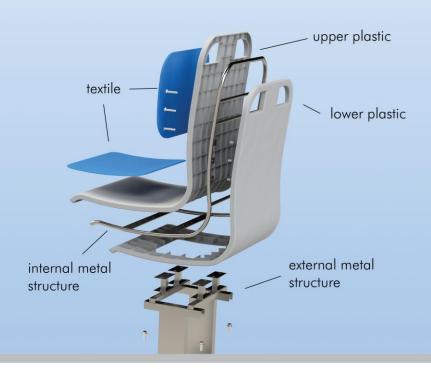


Проект бр. 2: Дизајн на седиште од пластика и метална конструкција за градски автобус

BUS SEAT DESIGN

Comfortable and Durable Bus Seat Design for Public Transport

Efficient and innovative bus seat design featuring a metal frame, securely attached to the bus structure for maximum stability. The seat incorporates ergonomic plastic components, designed to provide optimal comfort and support for passengers. This design balances strength, functionality, and comfort, making it an ideal choice for high-traffic public transportation environments.

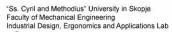
















BUS SEAT DESIGN



Ergonomically Designed, Structurally Reinforced Bus Seat

The seat is composed of two plastic parts reinforced with structural ribs and supported by an internal metal frame. For enhanced comfort, a textile layer is added to the design, while its ergonomic shape and dimensions are carefully tailored using anthropometric data to accommodate a diverse range of passengers.

metal













BUS SEAT

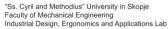
DESIGNED FOR COMFORT

This ergonomic bus seat was meticulously designed to provide optimal body support and ensure maximum comfort during travel. Its core features a durable metal construction that forms the backbone of the seat, offering strength and stability. The seat's outer shell, crafted from molded plastic is designed to fit the body's natural contours. Integrated within the plastic parts is a supportive framework, enhancing the overall strength and resilience of the seat. The innovative design incorporates seamless plastic-to-metal connections, ensuring durability and a sleek appearance. Together, these elements create a comfortable, ergonomic seating solution tailored for modern bus passengers.













City Bus Seat Ergonomically-friendly style with comfort for every passenger.







PUBLIC BUS SEAT

Where comfort meets durability



Experience the perfect blend of style and practicality. The public bus seat is crafted to enhance passanger comfort while ensuring long-lasting performance.





PLASTIC BUS SEAT











PLASTIC BUS SEAT

Our design prioritizes passenger comfort, featuring a supportive backrest and seating profile tailored to the natural curves of the body .



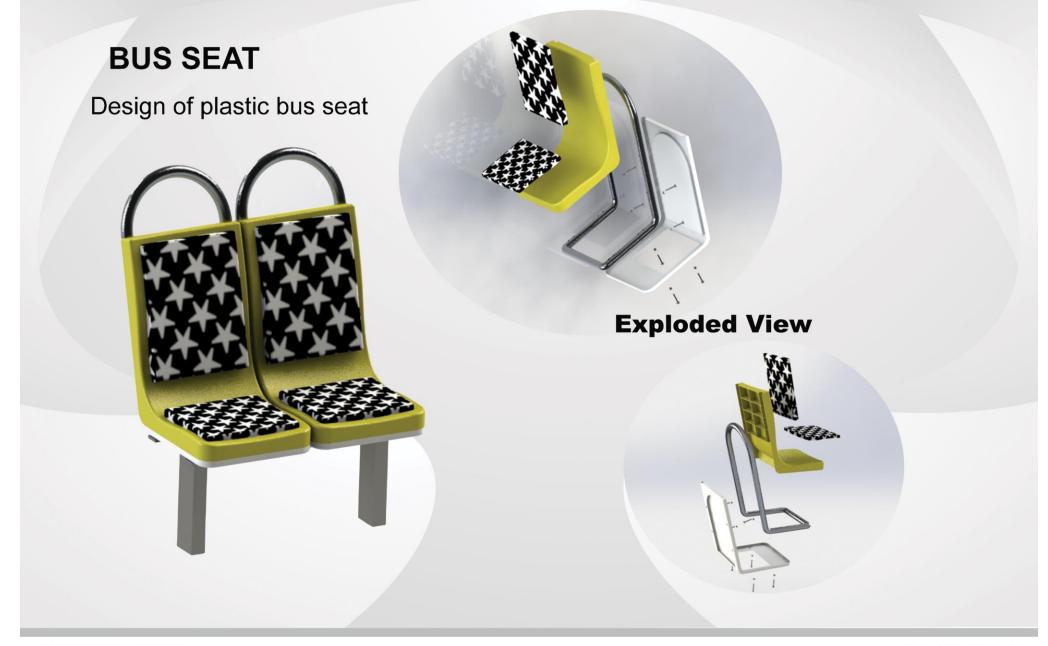








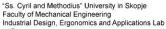




















BUS SEAT FOR PUBLIC TRANSPORT

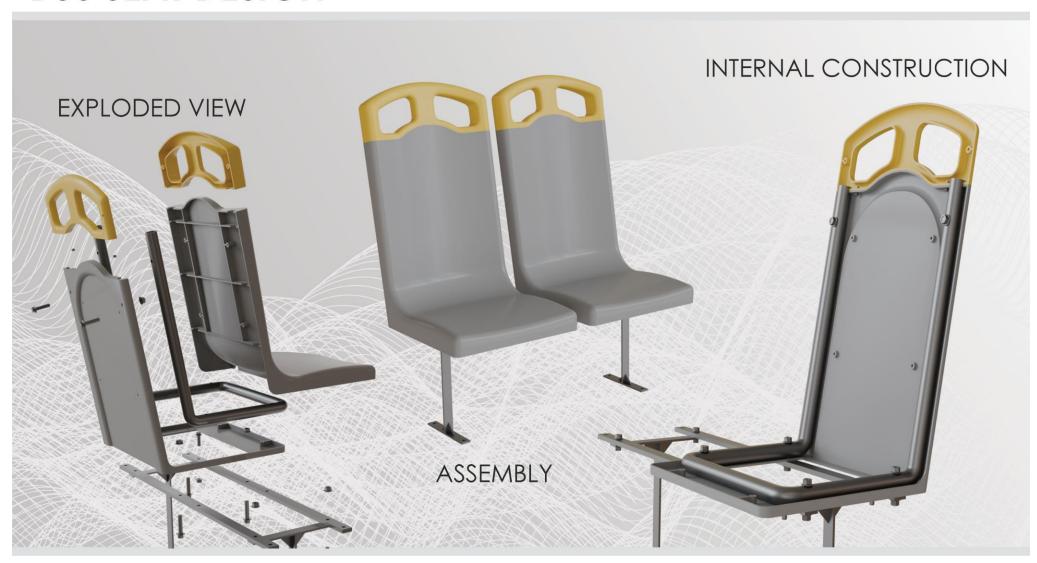
Public bus seat design with metal construction







BUS SEAT DESIGN



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





This bus seat blends a strong metal frame with a simple, comfortable design, perfect for busy urban transport while ensuring long-lasting use.







PUBLIC BUS SEAT AND STRUCTURE

Designed and constructed with comfort and easy installation in mind



Both plastic shells are held together by a metal construction, while each part has seemless bolt connections. Made to be long lasting. Padding is crafted from high-density foam for ergonomic support, while seat covers are often made from fabric chosen for its durability and ease of cleaning.

Made from ABS Plastic / Connections: Boltet joints, snap-fit, adhesives and riveting



BUS SEAT DESIGH

REDEFINING COMFORT AND INNOVATION FOR EVERY JOURNEY

Bus chair designed with two molded plastic sections, reinforced by internal ribs and supported by a sturdy metal frame for lasting durability. A soft textile layer adds comfort, while its carefully contoured ergonomic design, developed using anthropometric data, ensures a comfortable fit for passengers of various sizes.





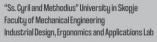






City Bus Seat Design







PLASTIC BUS SEAT

SUPPORTED BY METAL BEAMS





Our ergonomicaly designed bus seat provides lumbar support, comfortable cushioning, and proper posture alignment. It features durable materials for long-lasting comfort.



The modern and practical design uses combination of protruding cylinders and screws.



Supported by round metal beams and a central laser-cut plate for maximum durability.

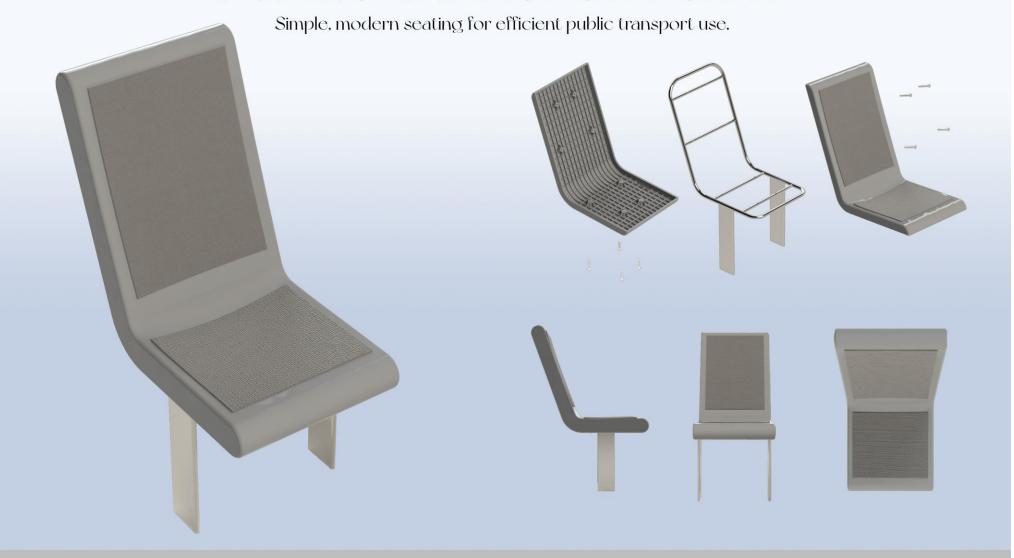
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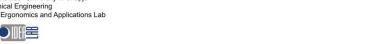


Student: Bojan Lazoroski 3199 Course: Plastic Products Leader: Prof. Dr. Ile Mircevski School Year: 2024/2025

PUBLIC TRANSPORT SEAT









BUS SEAT DESIGN

A bus seat designed in SolidWorks focuses on providing comfort and funcionality for public transport. The ergonomic design that follows the body contours ensures passanger comfort. The seat features rounded eges to enchance safety and withstand high-traffic use.

It combines durability and comfort, making it ideal for modern public transportation systems while improving passanger experience.













BUS SEAT 3D MODEL For public transport











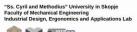
BUS SEAT DESIGN

Bus Seat Design Crafted with Surface Modeling Techniques





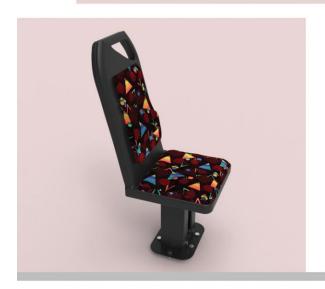






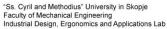
Bus chair design Ergonomic design





This is an ergonomically shaped bus chair with integrated lumbar support. The chair is tilted at a comfortable angle that is suitable for everyday use. The fabric and the dark colour of the plastic hide the dust that accumulates over time on public transport.









BUS SEAT DESIGN





The plastic bus seat design features a sleek, ergonomic shape that provides both comfort and durability for passengers. The molded plastic construction ensures easy maintenance and resistance to wear and tear, while the integrated contours support proper posture during travel, making it an ideal solution for high-traffic public transportation environments.

