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RAZISKOVALNO-INOVAČIJSKI
CENTER ZA DESIGN IN
OBLAČILNO INŽENIRSTVO
RESEARCH AND INNOVATION
CENTRE FOR DESIGN AND
CLOTHING SCIENCE

NOVI IZZIVI
NOVE IDEJE
NOVE REŠITVE
NEW CHALLENGES
NEW IDEAS
NEW SOLUTIONS





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NOVI IZZIVI - NOVE IDEJE - NOVE REŠITVE

RAZISKOVALNO-INOVAČIJSKI CENTER ZA
DESIGN IN OBLAČILNO INŽENIRSTVO

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UVODNE BESEDE

Raziskovalno-inovacijski center za design in oblačilno inženirstvo (RICDOI) na Fakulteti za strojništvo Univerze v Mariboru je bil oblikovan vskladu s potrebami izvajanja, učinkovitega razvijanja, organiziranja in spodbujanja izobraževalnega in znanstveno-raziskovalnega dela na področju oblikovanja, oblačilne znanosti in inovativnega razvoja tekstilnih izdelkov.

Namen centra je zagotoviti učinkovitost znanstveno-raziskovalnega delovanja na področju inovativnega designa (funkcionalnih in inteligentnih oblačil in/ali drugih izdelkov za tehnično aplikacijo), modnega in unikatnega oblikovanja tekstilij in oblačil ter inovativnih tehnologij na področju oblačilnega inženirstva, ergonomije toplotnega okolja in kompleksnega proučevanja fiziologije oblačil in udobja.

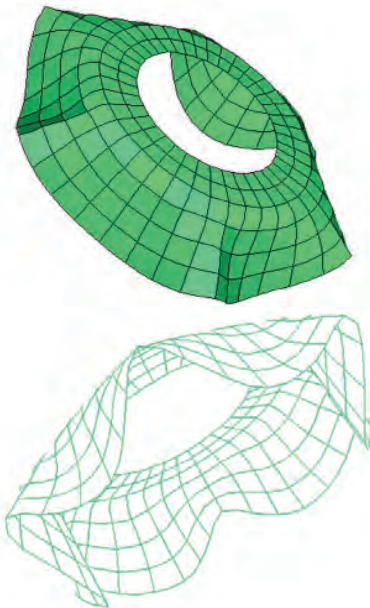
V okviru RICDOI delujeta Laboratorija za oblačilno inženirstvo ter fiziologijo in konstrukcijo oblačil in Modni atelje. Laboratorij je sodobno opremljen z ustrezno opremo, ki omogoča kakovostno izvajanje tako znanstveno-raziskovalne kot izobraževalne dejavnosti in navedenem področju, kjer sezdrružuje znanstvene in umetniške discipline in povezuje jokreativnost študentov in sodelavcev.

V publikaciji »Novi izzivi - nove ideje - nove rešitve« predstavljamo dejavnosti RICDOI, njegovo mednarodno vpetost in povezanost, zasnovano na platformi »deli in soustvarjaj«.

PREFACE

The Research and Innovation Centre for Design and Clothing Science (RICDCS) at the Faculty of Mechanical Engineering, University of Maribor, was designed according to the need for implementing effective development, organising and promoting educational and scientific-research work in the fields of design, clothing science, and the innovative designing of textile products.

The purpose of the Centre is to ensure the effectiveness of scientific-research activities within the field of innovative design (functional and intelligent clothing and/or other products for technical use), fashionable and unique textile and clothing design and innovative technologies within the fields of clothing engineering, thermal environment ergonomics, and complex study of clothing physiology and comfort.





The Laboratory of Clothing Engineering, Physiology and Construction of Garments and Fashion studio are active within RICDCS. The laboratory has modern facilities with suitable equipment, enabling high-quality implementations of both scientific-research and educational activities in the above areas. Scientific and artistic disciplines are combined together and linked with the creativities of students and staff.

In the publication "New Challenges - New Ideas - New Solutions" we present the activities of RICDCS, its international integration and connections, based on the motto "Share and Co-create".

red. prof. dr. sc. Jelka GERŠAK



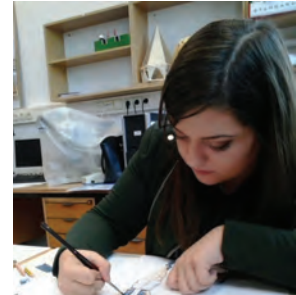
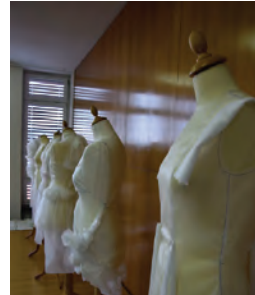
WINTER SCHOOL DESIGN WEEK 2012



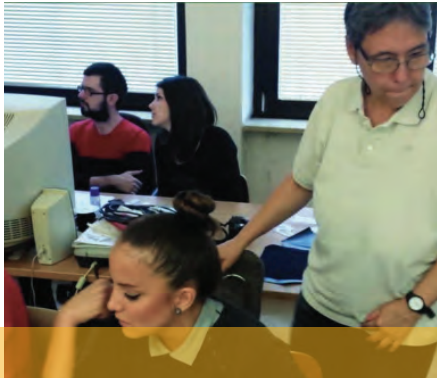
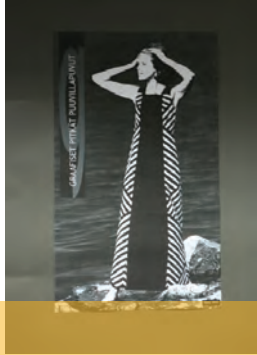
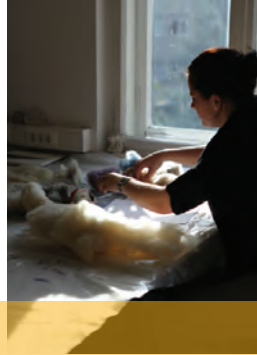
WINTER SCHOOL DESIGN WEEK 2013



WINTER SCHOOL DESIGN WEEK 2014



WINTER SCHOOL DESIGN WEEK 2015





MEDNARODNA CEEPUS ZIMŠKA SOLA DESIGN WEEK 2012

Zimska šola Design Week predstavlja uvod v serijo tednov mode, ki združuje znanstvene in umetniške discipline in povezuje kreativnost študentov različnih univerz iz različnih dežel. Študenti se v okviru predavanj in delavnic soočajo s teoretičnimi in praktičnimi vidiki oblikovanja, s sodobno modo in trendi razvoja izdelka. Pri tem so ključnega pomena razvoj idej in 2D- in 3D-predstavljalnost, kar omogočajo sodobne digitalne tehnologije.

The Winter School Design Week presents an introduction to the series of fashion weeks, which combines scientific and artistic disciplines and bring

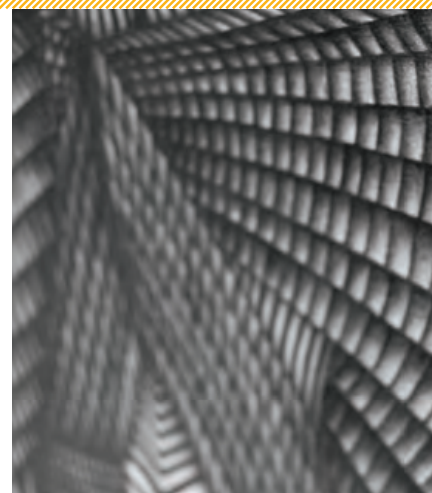


together the creativities of students from different universities and countries. The students were confronted in lectures and workshops with the theoretical and practical aspects of design, with the modern fashion and trends of product development. Here, idea development was of crucial importance, as well as its 2D and 3D visual interpretations, realised thanks to modern digital technologies.

2. MEDNARODNA CEEPUS ZIMSKA ŠOLA DESIGN WEEK 2013

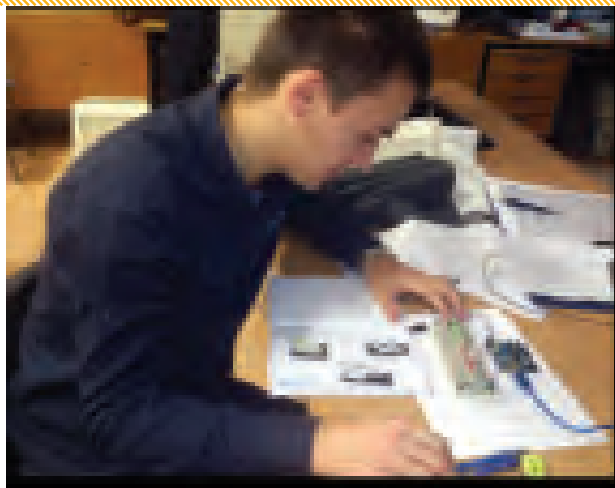
Design kot gonilo kljudem usmerjenih inovacij tema, kije združevala vsebine 2. mednarodne zimske šole. Aktivnosti so bile usmerjene v razvoj inteligentnih oblačil, kisle dijorazvoj generacijenovih oblačil, in v iskanje tradicionalnih vrednot oblačil in kulturne dediščine. Razvoj ideje je bil pri vseh konceptih ključnega pomena, tako pri oblikovanju silhuetiz papirja, oblikovanju tekstilij in oblačil kot pri iskanju inteligentnih funkcij oblačil in pri modnih dodatkih.

Design as a driving force towards people-centred innovation was a topic that linked together the contents of the 2nd international Winter School. The activities were focused on the development of intelligent clothing, following the development of a new-generation of clothing, as well as on the search for traditional values of clothing and their cultural heritages. Development of ideas was crucial for all the concepts, both in the designing of paper silhouettes, designing of textiles and clothing, as well as in the search for intelligent functions of clothing and fashion accessories.



INTERNATIONAL CEEPUS
WINTER SCHOOL DESIGN WEEK

RESEARCH AND INNOVATION CENTRE FOR DESIGN AND CLOTHING SCIENCE



SIGNAL LIGHTS; LEFT - RIGHT

3. MEDNARODNA CEEPUS ZIMSKA ŠOLA DESIGN WEEK 2014

Novi izzivi za inovativne rešitve, ki so odsev globalnih trendov mode 21. stoletja, so bili teoretični in motivacijska podlaga za izvedbo kreativnih delavnic (Time Puzzle, Kolektivni vzorec, Funkcionalna oblačila, Inteligentna oblačila, Use-Reuse, Svetloba in prostor, Tekstilni miniaturni objekt), ki so predstavljale pomemben inosrednji del aktivnosti 3. mednarodne zimske šole.

New challenges for innovative solutions, as a reflection of global trends during the fashion of the 21st century, were the theoretical and motivational base for the implementation of creative workshops (Time Puzzle, Collective pattern, Functional Clothing, Intelligent Clothing, Use-Reuse, Light and Space, Textile Miniature Object), which represented an important and central part of the activities of the 3rd International Winter School.

FUNCTIONAL LIGHT : ON / OFF



MEDNARODNA CEEPUS
ZIMSKA ŠOLA DESIGN WEEK



4. MEDNARODNA CEEPUS ZIMSKA ŠOLA DESIGN WEEK 2015

Moto *Novi izživi – nove ideje – nove rešitve* je povezoval udeležence 4. mednarodne zimske šole Design Week 2015, ki je združila znanstvene in umetniške discipline in povežala kreativnost študentov v različnih univerz in deželah, ki so skozi vzporedno potekajoče interdisciplinarno zasnovane kreativne delavnice (*Črnobelo, Inteligentna funkcionalna oblačila, Oblikovanje trajnosti, Slovenski pogrinjki, Ena dimenzija – neskončne možnosti, Portfolio, Kako izdelati knjigo, Autoportret/portret: Moje/tvoje tekstilno telo*) razvijali kolektivno filozofijo razvoja ideje, kot ključnega elementa pri iskanju novih rešitev.

The motto *New Challenges - New Ideas - New Solution* has united the participants of 4th International Winter School Design Week 2015, which brought together scientific and artistic disciplines and linked the creativity of students from different universities and countries, who have developed through parallel interdisciplinarily designed creative workshops (*Black and White, Intelligent Functional Clothing, Design of Sustainability, Slovenian Couverts, One Dimension - Infinitely Possibilities, Portfolio, How to Make a Book, Self-Portrait / Portrait: My / Your Textile Body*) a collective philosophy related to the development of ideas, as a key element in finding new solutions.



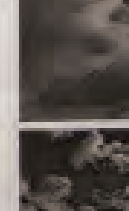
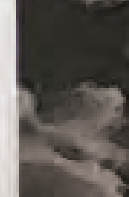
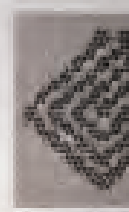
s5

Black White I-III + (rno help I-III)



s5

Black White



INTERNATIONAL CEEPUS
WINTER SCHOOL DESIGN WEEK

RESEARCH AND INNOVATION CENTRE FOR DESIGN AND CLOTHING SCIENCE



INTERNACIONALIZACIJA 2015



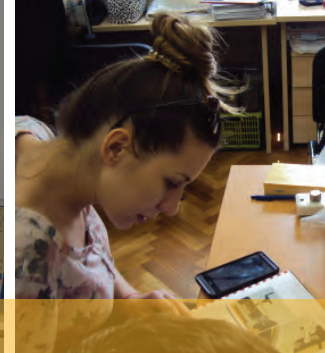
OBLAČILNI VIDEZ 2014



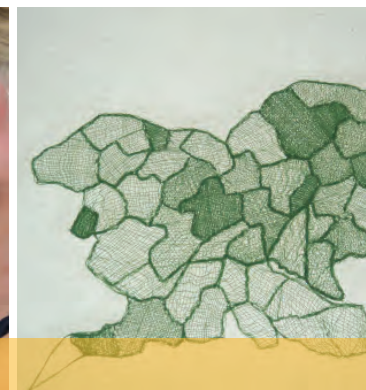
RE 20



RAZSTAVE IN NAGRADE



MOBILNOST



EXPO MILANO 2015



IKONSKA PETDESETA



RAZVOJ IN PROJEKTIRANJE INTELIGENTNIH OBLAČIL

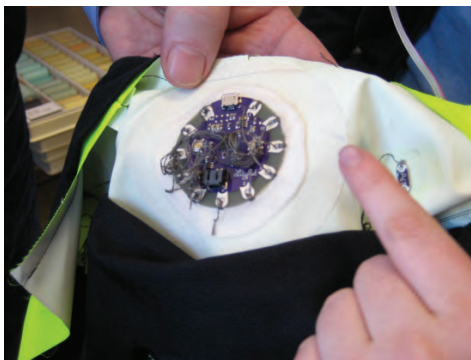
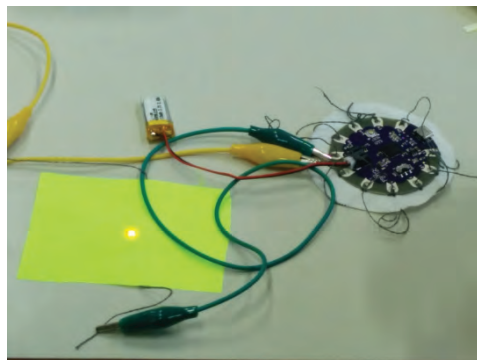
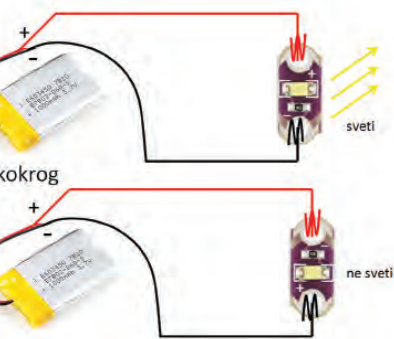
Mednarodna delavnica Razvoj in projektiranje inteligentnih oblačil je potekala kot del programa Internacionalizacija – steber razvoja Univerze v Mariboru. Vinterdisciplinarnozasnovanidelavnici so študenti razvili ideje in zasnovali individualne koncepte inteligentnih otroških pelerin, za katere so razvili virtualneprototipein izdelaliprototipe oblačilz integriranosodobnonosljivo računalniško tehnologijo. Rezultati interdisciplinarnozasnovanedelavnice, ki je prek timskega dela povezala znanja s področja dizajna, pametnih materialov, oblačilnega inženirstva in sodobnih nosljivih računalniških tehnologij, so ponudili vrsto rešitev, kiz integracijonosljivihračunalniških tehnologijvotroškopelerinopovečujejo varnost otroka v zunanjem okolju. Oblačilozvgrajenonosljivotehnologijo, LED diodami, ki samodejno zasvetijo vtemi, in modulomzaglobalnisistem pozicioniranjaGPS(GlobalPositioning System)omogočavečjo vidnostotroka in informacije o gibanju. Otrok bo z nosljivo računalniško tehnologijo, vgrajeno v oblačilo, viden na cesti, lažje ga bo najti vtemi ali če se oddalji oziroma izgubi.



Sklenjen to

DEVELOPMENT AND DESIGN OF INTELLIGENT CLOTHING

The international workshop Development and Design of Intelligent Clothing was executed as part of the programme Internationalisation-Development Pillar of the University of Maribor. Within the interdisciplinary designed workshop, the students developed ideas and designed individual concepts of intelligent children's pelerines, for which they had developed virtual prototypes and produced prototype clothing using modern integrated wearable computer technology. The results of the interdisciplinary workshop by using teamwork, linked together knowledge from the areas of design, smart materials, clothing engineering and modern wearable computing technologies, offered a range of solutions with the integration of wearable computing technologies into children's pelerines, thus increasing the safety of children within external environments. The clothing with integrated wearable technology, LED diodes that automatically illuminate in the dark, and a module for Global Positioning System - GPS allows greater visibility for the child and information about his/her movement. Children wearing the clothing with integrated wearable computer technology will be easily visible on the road and seen in the dark or when lost.



INTERNACIONALIZACIJA
INTERNATIONALISATION



Foto: A. Grabeljšek



Foto: A. Grabeljšek



Foto: A. Grabeljšek

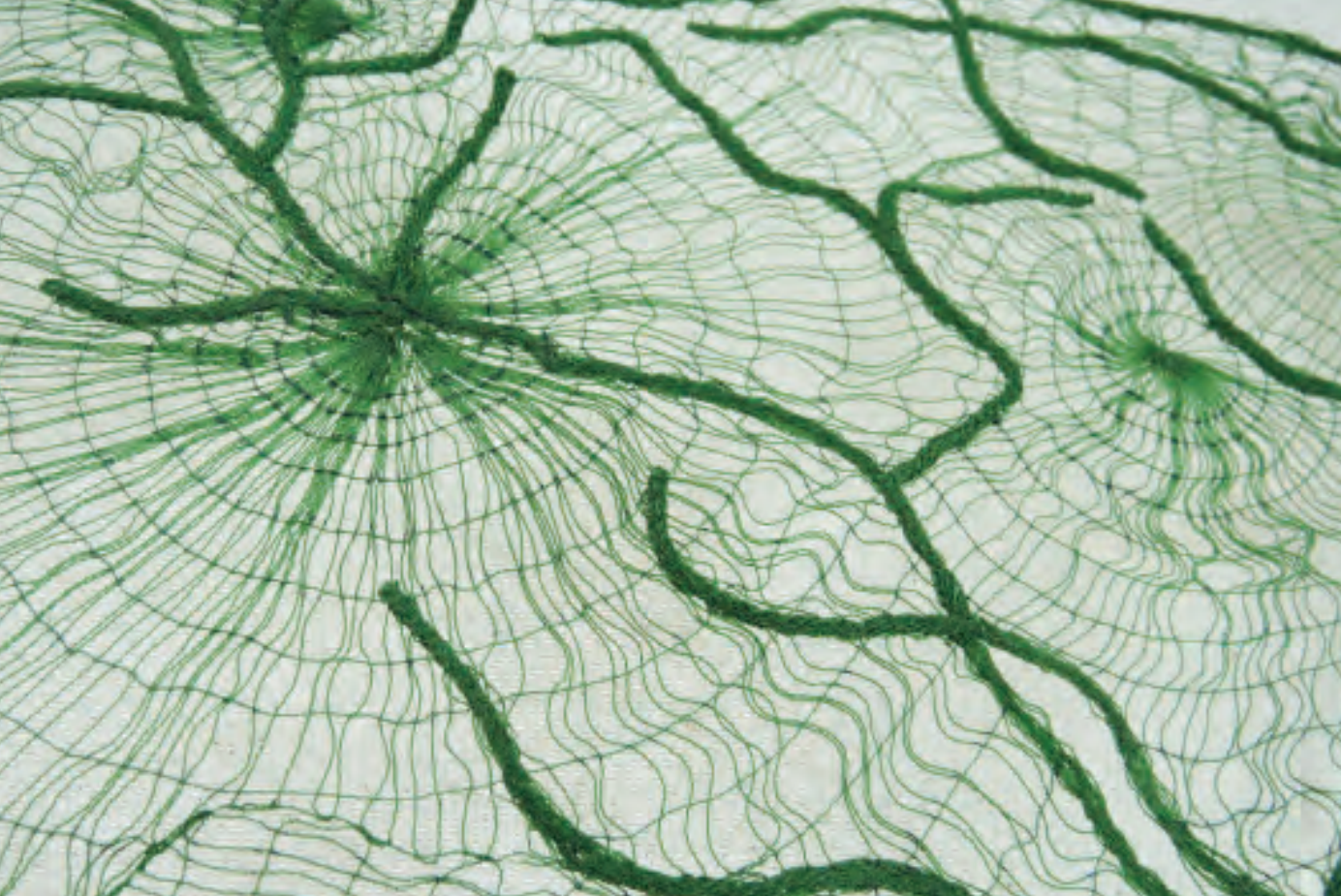
Izbrani in realizirani liki Marie Szechy, Eve Szechy in Gabriela Bethlemas razstavljeni v eni izmed soban na gradu na Goričkem in so del njegove stalne zbirke.

Selected and realized characters of Maria Szechy, Eva Szechy and Gabriel Bethlem are exhibited in one of the chambers at the Castle in Goričko and part of their permanent collection.

OBLAČILNI VIDEZ CLOTHING OUTFIT

Projekt Oblačilni videz se je odvijal v okviru mednarodnega projekta Rokodelska akademija 2, v katerem so študenti na podlagi raziskav kulturne dediščine Pomurja (noše, tradicija, zgodovinski viri, oblačilni videz 17. stoletja) in inspiracij, vezanih na promocijska informativna središča v Pomurju (Pomurski muzej v Murski Soboti; Krajinski park Goričko; Grad na Goričkem; PRJ Pomelaj v Mali Polaniter Center domače in umetnostne obrti v Veržejju), realizirali oblačilni videz za ženske in moške izbranih lokacij. Oblačilni videz zaznamuje številni detajli, pri čemer se prepletajo tehnološka znanja, znanja spretnih vezilj in nove rešitve, ki povezujejo ideje z rokodelstvom Pomurja.

The project Clothing Outfit took place within the international project Art & Craft 2, where the students came to realise the traditional clothing sets for men and women based on the cultural heritage of Pomurje (costumes, tradition, historic resources, clothing outfit of the 17th century) and inspiration related to promoting Information Centres in the Pomurje region (Pomurje Museum Murska Sobota; Goričko Nature Park, Grad in Goričko; PRJ Pomelaj, Mala Polana and the Centre for Arts and Crafts, Veržej). Clothing outfit was marked by a number of details, which combined technological skills, knowledge of skilful embroiderers and new solutions that connect ideas with handicrafts in Pomurje.



Slovenija se je predstavila z lastnim paviljonom in s celotno podobo oblačil. Oblačilno podobo je oblikovala doc.S. Šterman. Oblačila, ki so jih razvili in izdelali v podjetju Moda Mi&Land.o.o., Gornji Petrovci, so obogatena z unikatnimi modnimi dodatki – sčipkov silhueti Slovenije, ki so jo izdelali študenti Katedre za tekstilne materiale in oblikovanje v Laboratoriju za oblačilno inženirstvo ter fiziologijo in konstrukcijo oblačil.

Unikatni modni dodatki, ki dajejo oblačilom stilsko dovršenost, so izdelani v tehniki zračne čipke, ki temelji na tehniki šivanja vezilne podlage s sukancem. Motivna čipka, ki so vsebinsko zasnovali in slogano svetovne razstave EXPO Milano 2015 Hrana za planet, energija za življenje in slogano Slovenije Čutim Slovenijo, Zelena, Aktivna, Zdrava, sonaravno bogastva, kotsoreke in gozdovi, obdelane površine, regije in mesta z lokalnimi posebnostmi ter drugi motivi, značilni za Slovenijo.

Čipka sestavlja »nešteto« niti, ki predstavljajo povezanost in sodelovanje med ljudmi, s svojo strukturo pa simbolno odražajo naravo, brstenje in rastline, ki so pomemben člen v prehranski verigi za zdravo življenje.

EXPO MILANO 2015

Slovenia was represented with its own pavilion and corporate image for clothing. A clothing image was formed by Assist. Prof. S. Šterman. Garments, which were developed and produced by the company Moda Mi&Lan, Gornji Petrovci, were enriched with unique fashion accessories - lace in the shape of the silhouette of Slovenia, as designed by the students of the Department of Textile Materials and Design within the Laboratory of Clothing Engineering, Physiology, and Construction of Garments.

Unique fashion accessories, which contribute to style perfection, were made using the air lace technique, which is based on sewing using the thread and a special nonwoven textile structure. The motifs on the laces, which were substantially based on the slogan of Expo 2015 Food for the Planet, Energy for Life and the slogan I feel Slovenia, Green, Active, Healthy, were natural resources, such as rivers, forests, cultivated areas, regions and cities with local peculiarities and other motifs, characteristic of Slovenia. The laces are composed of countless threads that represented the relationships and cooperation between people.

With its own structure symbolically representing nature, sprouting and plants, which are an important link in the food chain for a healthy life.





Foto: A. Grabeljšek

RE 20

Študenti so raziskovali silhuete, detajle in vzorce, pobrskali po arhivih modne, plesne in glasbeneske scene ter se živeli v vzdušju dvajsetih let 20. stoletja. Njihove ideje so zaživele v vzorcih vezanja in sitotiskatu ter polstenih ogrinjalih. Obdobje, ki so ga raziskovali, je bilo polno življenja in veselja, sledilo je temačnemu vojnemu obdobju, kar simbolizira trenčkot. Tajeslužil študentom kot izživ in poljek kreativne manipulacije. Strogo podobni plašč so zredizajnom silhuete in spreoblikovanjem površin vdahnili novo podobo in modeli so zaživele v razposajeni energiji dvajsetih let 20. stoletja.

The students studied silhouettes, details and patterns, dug through the archives of fashion, dance and music scenes, and got involved in the atmosphere of the 20s of the 20th century. Their ideas came to life in samples of embroidery and screen printing, as well as in the felt capes. The explored period, full of life and joy, followed by a dark period of war, symbolised by a trench coat. The trench coat served as a challenge to the students in the field of creative manipulation. Using silhouette redesigning and restructuring of surfaces they gave the models a new look instead of rigorous images. With that, the designs were brought to life by displaying the playful energy of the 20s of the 20th century.

IKONSKA PETDESETA

Petdeseta leta 20. stoletja so prinesla nova boja energijev v družbeni strukturi in v pore povojnega obdobja. Hitri ritmi glasbe rock'n roll in plesa, novi obrazi medijskega sveta in modne ikone tistega časa so podlaga za idejno zasnovo izdelkov. V konceptu petdesetih let so predstavljeni krila, ki so silhueti spominjajo na Diorjev New Look. Strukture, tisk in vezenje, aplikacije in različne medsebojne kombinacije tehnik se kreativno dopolnjujejo v različnih inspiracijskih zgodbah. Oblačilna podoba, modni dodatki, razstava vezenin, sito tiskov in polstenih torbic poleg teme petdesetih let 20. stoletja vključuje tudi arhitekturo Maribora. Značilnosti posameznih objektov, ki zaznamujejo mesto, lahko prepoznamo tudi v svetilih. Tako z različnih slojev povejemo, ovitih čez ogrodja prepoznavne arhitekture, ustvarjajo igro svetlobe, ki daje ikonam mesta poseben pečat.

The 1950s represented a new charge of energy that was reflected within all the aspects of society during the post-war period. Quick rhythms of rock'n roll music and dance, new faces of the media world and fashion icons of that time represented the conceptual designing of products. The concepts of the fifties introduced skirts, which in silhouette were reminiscent of the Dior's New Look. Structures, textile prints, patterns and embroidery, as well as various combinations of techniques creatively complemented the variety of inspirational stories. Garment appearance, fashion accessories, exhibition of embroidery, screenprints and felted handbags in addition to the themes of the fifties of the 20th century, included the architecture of Maribor. The characteristics of some buildings that characterise the city were also easily recognisable in lamps. Through the various layers of bandages wrapped over the chassis of distinctive architecture the lamps created a play of light that gave the icons of the city of Maribor special touches.

STUDENTSKI PROJEKTI
STUDENT'S PROJECTS



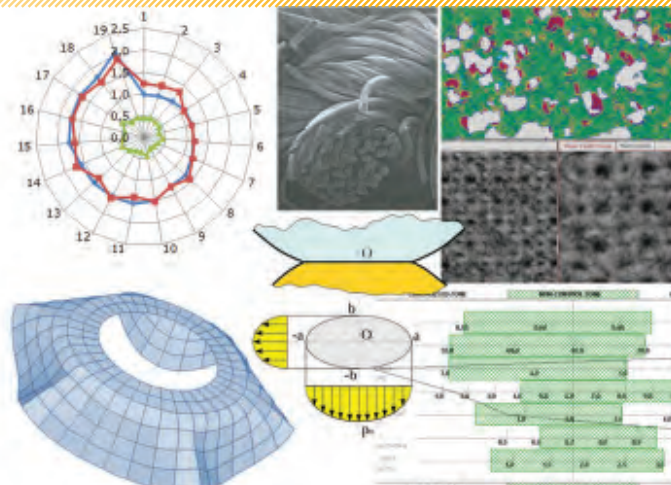
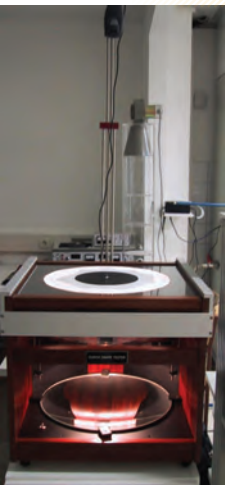
RAZISKOVALNO-INOVAČIJSKI CENTER ZA DESIGN IN OBLAČILNO INŽENIRSTVO

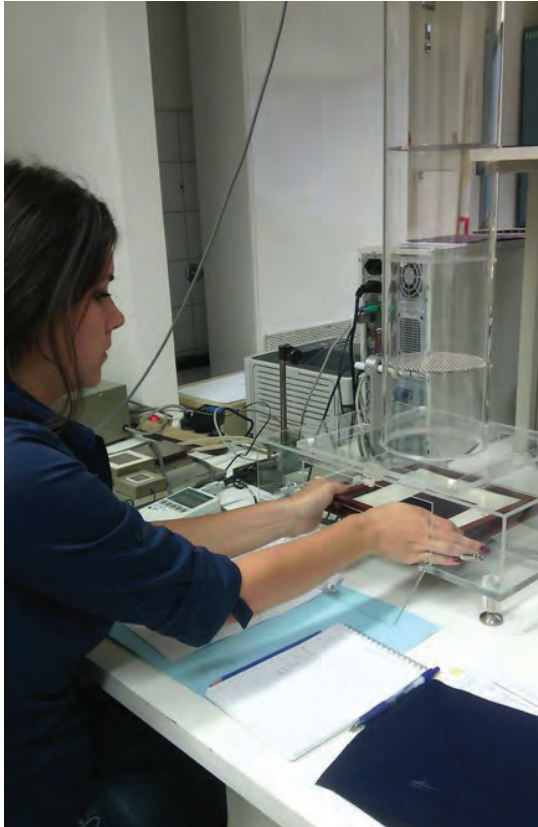
Pomemben in viden del aktivnosti RICDOI so raziskave. S tematskega vidika zaokrožujejo kompleksno proučevanje medseboj prepletenih tematik spodročja mehanike ploskih tekstilij, inženirskega projektiranja in razvoja inovativnih tekstilnih izdelkov ter ergonomije toplotnega okolja.

Raziskovalna dejavnost se odvija v okviru raziskovalnega programa Oblačilno inženirstvo in tekstilni materialiter domačih in mednarodnih znanstveno-raziskovalnih projektov.

Raziskovalni program vključuje proučevanje fenomenov obnašanja tekstilnih struktur pri različnih obremenitvah, razvoj visokozmogljivih inteligentnih in/ali funkcionalnih oblačil in ergonomijo toplotnega okolja spoudarjajo na študiju celovitega zagotavljanja udobja pri nošenju oblačil.

Viden del raziskovalnih aktivnosti je usmerjen na ožje področje oblačilnega inženirstva, razvoj oblačil za gibalno omejene osebe, eksperimentalno oblikovanje in razvoj, inovativne tehnologije na področju razvoja visokokakovostnih inteligentnih in funkcionalnih oblačil in/ali drugih izdelkov za tehnično aplikacijo, osebno zaščitno opremo, fiziologijo oblačil in udobje pri nošenju.





RAZISKOVALNA DEJAVNOST RICDOI

RESEARCH ACTIVITIES RICDOI

RESEARCH AND INNOVATION CENTRE FOR DESIGN AND CLOTHING SCIENCE

Research is an important and visible part of the activities of RICDCS. From a mathematic perspective they round up the study of complex topics within the fields of mechanics, textiles, engineering design and development of innovative textile products, and ergonomics of the thermal environment.

Research takes place in the context of the research program Clothing Engineering and Textile Materials, as well as within the framework of national and international scientific-research projects.

The research program involves the study of phenomena related to the behaviour of textile structures at lower loads, development of high-performance intelligent and/or functional garments and ergonomics of the thermal environment with an emphasis on a comprehensive study with respect to providing comfort when wearing.

This significant part of the research activity focuses on a focused areas of clothing engineering, development of garments for physically disabled people, experimental design and development, innovative technologies during the development of high-quality intelligent and functional garments and/or other products for technical use, personal protective equipment, clothing physiology and wearing comfort.

ŠTUDIRAJ Z NAMI

Študij Oblikovanje in tekstilni material na Fakulteti za strojništvo Univerze v Mariboru se je formalno začel izvajati v akademskem letu 2006/2007, njegova geneza pa sega v leto 1959, tj. v čas ustanovitve Višje tehniške šole v Mariboru. Najprej je bil organiziran v okviru Tekstilnega oddelka, ki se je deset let pozneje pridružil Strojnemu oddelku takratne Višje tehniške šole. Že leta 1973 se je Višja tehniška šola preoblikovala v Visoko tehniško šolo. V tem času sta se uveljavili študijski usmeritvi Tekstilna tehnologija in Konfekcijska tehnologija. Leta 1985 je Visoka tehniška šola prerasla v Tehniško fakulteto, iz katere so letu 1995 nastale štiri samostojne fakultete, med njimi tudi Fakulteta za strojništvo.

Študij tekstilstva je bil od leta 1996 organiziran v obliki univerzitetnega študijskega programa Tekstilstvo (s smermi Tekstilna tehnologija, Ekotekstilno inženirstvo, Oblačilno inženirstvo in Inženirski management) in visokošolskega strokovnega programa Tekstilstvo (s smerema Tekstilna tehnologija in Konfekcijska tehnologija).

V akademskem letu 2006/2007 je Fakulteta za strojništvo v skladu z bolonjskim procesom začela izvajati nov program, prvi po Bolonjski deklaraciji, in sicer dodiplomski univerzitetni študijski program Oblikovanje in tekstilni material s smerema Inženirsko oblikovanje tekstilnih materialov in Tekstilni materiali.



Danes je študij programa Oblikovanje in tekstilni material na Fakulteti za strojništvo Univerze v Mariboru, katerega koncept je zasnovan na tesni povezavi teoretičnih in praktičnih izobraževalnih elementov, organiziran v obliki tristopenjskega sistema študija:

1. dodiplomski univerzitetni študijski program Oblikovanje in tekstilni materiali s smerema:
 - Inženirsko oblikovanje tekstilnih materialov,
 - Tekstilni materiali.
2. podiplomski magistrski študijski program Oblikovanje in tekstilni materiali s smerema:
 - Inženirsko oblikovanje tekstilnih materialov,
 - Tekstilni materiali.
3. doktorski študijski program Tekstilni materiali.

Vzporedno poteka tudi dodiplomski visokošolski študijski program Tehnologije tekstilnega oblikovanja s smerema:

- Materiali in tekstilne tehnologije,
- Oblikovanje in razvoj izdelka.



STUDY WITH US

The study program Design and Textile Materials was formally launched at the Faculty of Mechanical Engineering, University of Maribor in the year 2006/2007. Its genesis, however, dates back to 1959, to the time of establishing the Higher Technical School in Maribor. Study was first organised within the framework of the Textile Department. Ten years later it joined the Mechanical Engineering Department of the then College of Engineering and Technology. In 1973, the college evolved into an Institution of Higher Education. During this time study orientation Textile Technology and Clothing Technology were established. In 1985 the High Technical College grew into the Faculty of Technical Sciences, from which in 1995 four separate faculties were created, including the Faculty of Mechanical Engineering.

Textile study has been organised since 1996 in the form of university-level study programs Textiles (with directions: Textile Engineering, Eco-Textile Engineering, Clothing Engineering and Engineering Management) and the professional-level program Textiles with the directions Textile Technology and Clothing Technology.

During the academic year 2006/2007 Faculty of Mechanical Engineering in accordance with the Bologna Process, launched a new program, the first after the Bologna Declaration, namely the undergraduate university-level study program Design and Textile Materials with two fields of study: Engineering Design of Textile Materials and Textile Materials.



Today, the study program Design and Textile Materials at the Faculty of Mechanical Engineering, University of Maribor, is based on the close linkages of theoretical and practical educational elements, designed in the form of a three-level system of study:

1. Undergraduate university-level study program Design and Textile Materials with directions:
 - Engineering Design of Textile Materials
 - Textile Materials
2. Postgraduate (MSc.) study program Design and Textile Materials with directions:
 - Engineering Design of Textile Materials
 - Textile Materials
3. Doctoral (PhD.) study program Textile Materials.

Parallel to that, there is also the undergraduate higher education study program Textile Design Technologies with two directions:

- Materials and Textile Technologies
- Design and Development of Products.



15 LET MREŽE CEEPUS CIII-SI-0217

CEEPUS (Central European Exchange Program for University Studies) je srednjeevropski program za izmenjavo študentov in profesorjev. Delujena podlagimrež. Prvamreža, ki je povezovala fakultetes področjatekstilnega in oblačilnega inženirstva, je bila oblikovana že leta 1997 kot mreža CEEPUS SI-0007, danes CEEPUS CIII-SI-0217. Mreža, ki je letos obeležila 15 let delovanja, je odigrala pomembno vlogo na področju tekstilnega izobraževanja, saj je prva odprla vrata aktivnemu srednjeevropskemu povezovanju partnerskih institucij in teskozi svojedelovanje privedlodo aktivnega multilateralnega sodelovanja.

Realizacija aktivnemobilnosti študentov in profesorjev v okviru nastalega multilateralnega sodelovanja pa ni privedla le do številnih pomembnih izkušenj med partnerskimi institucijami, ampak je v mnogih pogledih pomembno zaznamovalatudirazvojnostrategijoposameznih institucij. Danes CEEPUS CIII-SI-0217 združuje partnerske institucije desetih univerz, ki so med seboj vsesetneje povezane prek semestrskih izmenjav študentov, krajših študentskih izmenjav, namenjenih individualnem uznanstveno-raziskovalnemudelu, strokovnih ekurzij in vsakoletnemednarodnezimske šole Design week.



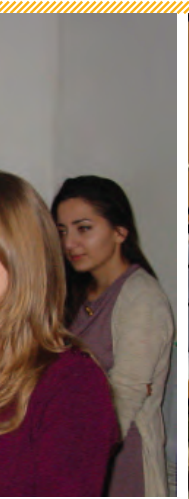
| Univerza / Fakulteta | Akademska leta | | | | | | | | | | | | | | |
|---|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 1997/98 | 1998/99 | 1999/00 | 2000/01 | 2001/02 | 2002/03 | 2004/05 | 2007/08 | 2008/09 | 2009/10 | 2010/11 | 2011/12 | 2012/13 | 2013/14 | 2014/15 |
| Univerza v Mariboru, Fakulteta za strojništvo | | | | | | | | | | | | | | | |
| Sveučilište u Zagrebu, Tekstilna tehnološka fakultet | | | | | | | | | | | | | | | |
| TU Liberec, Faculty of Textile Science | | | | | | | | | | | | | | | |
| Slovak TU, Faculty of Chemical Technology, Bratislava | | | | | | | | | | | | | | | |
| TU Lodz, Textile Faculty | | | | | | | | | | | | | | | |
| TU Budapest, Faculty of Mechanical Engineering | | | | | | | | | | | | | | | |
| Technical College for the Light Industry, Budapest | | | | | | | | | | | | | | | |
| University of Hradec Kralove, Faculty of Education | | | | | | | | | | | | | | | |
| Ss. Cyril and Methodius University in Skopje, Faculty of Technology | | | | | | | | | | | | | | | |
| UL, Naravoslovnotehniška fakulteta, Ljubljana | | | | | | | | | | | | | | | |
| Academy of Fine Arts and Design Bratislava | | | | | | | | | | | | | | | |
| TU Itai, Faculty of Textiles and Leather Engineering | | | | | | | | | | | | | | | |
| University of Banja Luka, Faculty of Technology | | | | | | | | | | | | | | | |
| University of Sarajevo, Academy of Fine Arts | | | | | | | | | | | | | | | |
| Academy of Fine Arts Vienna | | | | | | | | | | | | | | | |
| University of Novi Sad, Technical Faculty "Mihajlo Pupin" | | | | | | | | | | | | | | | |
| University of N8, Faculty of Technology Leskovic | | | | | | | | | | | | | | | |

SI-0007

SI-Q117

CI-SI-0217

CI-SI-0217



15 YEARS OF THE CEEPUS CIII-SI-0217 NETWORK

CEEPUS (Central European Exchange Program for University Studies) is a Central European program for the exchanges of students and professors. CEEPUS operates on the basis of networks. The first network that connected the faculties in the field of textile and clothing engineering, was formed in 1997 as a network CEEPUS SI-0007, today CEEPUS CIII-SI-0217. The network, which this year celebrates 15 years of operation, has played an important role in the field of textile education since it opened its doors to the active integration of Central European partner institutions. Through its action the network has led to active multilateral cooperation.

Realisation of the active mobility of students and teachers within the context of the resulting multilateral cooperation has not only led to a number of important experiences between the partner institutions but in many ways also significantly marked the development strategies of each institution. Today CEEPUS CIII-SI-0217 integrates the partner institutions of ten Universities, which are becoming increasingly connected through semester exchanges of students, short student exchanges and individual scientific-research work, excursions and annual International Winter School Design Week.





RAZSTAVE
EXHIBITIONS



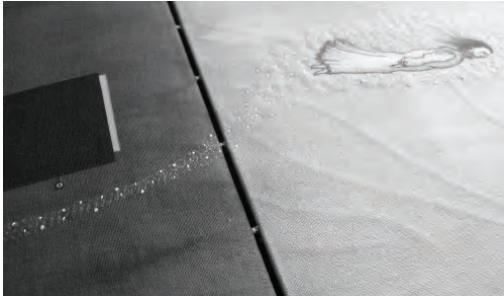


MESEC OBLIKOVANJA - SLOVENSKI OBLIKOVALSKI DOSEZKI

Slovenske nagrade za oblikovanje

Med prepoznavnimi dosežki mladih oblikovalcev na Mesecu oblikovanja 2015 so tudi:

- študentke oblikovanja Katedre za tekstilne materiale in oblikovanje na Fakulteti za strojništvo Univerze v Mariboru. Prejele so nagrado za mlade perspektivne ustvarjalce področja modnega oblikovanja za unikatni modni dodatek – čipkevsilhueti Slovenije. Čipke kot modni dodatek oblačil se bjava EXPOMilano 2015 so oblikovale in izdelale pod mentorstvom avtorice projekta doc. Sonje Šterman.
- Nataša Majer, avtorica silkanice Fragment – knjige sporočno izdelani miilustracijami in tanjši bombažni tkanini (magistrsko delo).



NAGRADE AWARDS

MONTH OF DESIGN - SLOVENIAN DESIGN ACHIEVEMENTS

Slovenian design awards

Among the distinctive achievements of young designers in the Month of Design 2015 the following two should be mentioned:

- The group of students from the Department of Textile Materials and Design at the Faculty of Mechanical Engineering, University of Maribor, received the prize for promising young designers in the field of fashion design for unique fashion accessory – lace in a form of a silhouette of Slovenia. Laces as fashion accessories for official clothes of staff at the EXPO Milano 2015 have developed and produced under the supervision of the author of the project, Assist. Prof. Sonja Šterman.
- Nataša Majer was the author of the picture book Fragment containing hands-free illustrations on a thin cotton cloth (M.Sc. thesis).

NOVI IZZIVI
NOVE IDEJE
NOVE REŠITVE
NEW CHALLENGES
NEW IDEAS
NEW SOLUTIONS