

European Academy for Industrial Management

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University of Novi Sad, Serbia
Faculty of Technical Sciences
Department of Industrial Engineeirng
and Management





European Academy for Industrial Management

Agenda:

- University of Novi Sad
- Faculty of Technical Sciences
- Department for Industrial Engineering and Management
- Center for Product Development and Management
- Reserach and Development Projects
- Future of Industrial Engineering & Management





UNS was founded on 28 June 1960.

Today it comprises 14
faculties located in the four
major towns of the
Autonomous Province of
Vojvodina:
Novi Sad, Subotica, Zrenjanin
and Sombor.



Facts and Figures

40,000 students at undergraduate studies

1,200 at postgraduate master's and specialist studies

2,374 attained doctoral degrees

2,800 teaching staff and 1,100 non-teaching staff







Faculty of Technical Sciences (FTS)



IMPORTANT POINTS

18th May 1960

FTS was founded as the Faculty of Mechanical Engineering in Novi Sad.

22nd April 1974

The establishment of the DEE1 and DCE was the reason for the change in the name of the Faculty into the FTS

19th February 2007

National Agency for Accreditation Scientific and Research institution make a decision to accredit FTN for scientific and research activity

THE BEST IS THE VISION OF THE FACULTY OF TECHNICAL SCIENCES





Facts and Figures

Studies

Staff

- 1022 full-time employees
- 760 are participants in the lecturing process
- 247 are not lecturing staff
- 103 full professors and 67 associate professors
- 121 assistant professors
- 305 assistants
- 98 researchers

- Master Academic Studies
- Undergraduate Academic Studies:
 8 semesters
- Master Academic studies:2-4 semesters
- Specialist Academic Studies :
 2-4 semesters
- Doctoral Academic Studies:
 6 semesters
- Undergraduate Professional Studies: 6 semesters
- Specialist Professional Studies:2-4 semesters
- MBA: 4 semesters



Departments (13)

- Production Engineering
- Mechanization and Construction Engineering
- Energy and Process Engineering
- Technical Mechanics
- Power, Electronics and Telecommunications Engineering
- Computing and Automatics
- Civil Engineering
- Traffic Engineering
- Architecture and Urbanism
- Industrial Engineering and Management
- Graphic Engineering and Design
- Environmental Engineering
- Fundamental Disciplines in Engineering

Centres (31)

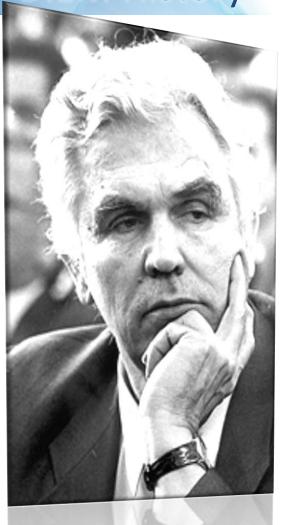
- RESEARCH AND TECHNOLOGY CENTRE
- GEOSPATIAL TECHNOLOGIES AND SYSTEM CENTER
- GRAPHIC CENTRE GRID
- ENVIRONMENTAL ENGINEERING CENTRE
- SURFACE ENGINEERING AND
- NANO TECHNOLOGY CENTRE
- CENTRE FOR PRODUCT DEVELOPMENT AND MANAGEMENT
- CENTER FOR IDENTIFICATION TECHNOLOGY
- CENTRE FOR YOUTH ENTERPRENUERSHIP
- CENTER FOR GLASS RESEARCH
- CENTRE FOR DISASTER RISK MANAGEMENT
- CENTRE FOR TECHNOLOGIES AND E-BUSINESS SYSTEMS
- CENTRE FOR METROLOGY
- COMPUTER CENTRE
- •

Department of IEM

- Respectable unit of Faculty of Technical Sciences, the biggest faculty in the SEE, playing significant role in Serbian and regional economy.
- DIEM is unique scientific and research entity, combining fields of:
 - Engineering,
 - Organization,
 - Management and Business,
 - Finances.



DIEM History



- 15 May 1960. prof. dr Dragutin Zelenović, member of Serbian Science and Arts Academy founded Chair for Industrial Production Improvement within Faculty of Mechanical Engineering in Novi Sad.
- 29 June 1979. 9 Professors founded Institute of Industrial Systems
- 29 June 1990. Founded Research and Technology Center
- 29 June 1999. Established Institute of Industrial Engineering and Management
- 29 June 2002. IIM/EURO International Postgraduate Business and Engineering School
- 29 June 2006. DIEM Department of Industrial Engineering and Management

Facts & Figures





1 Department



951 Graduate engineers



3 Study programs

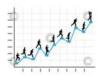


1629 ^N_e

Masters engineers



4 Chairs



147 s

Masters of Science



15 Laboratories



104 PhDs



121 Empoleyees

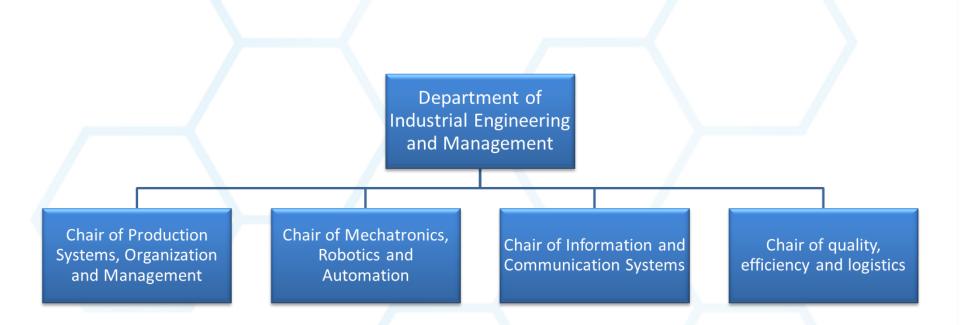


140 MBAs

134 Professional specialists









Laboratories



- Manufacturing & Assembly Systems
- Production Systems Control
- Distance Learning
- Media Engineering
- Disasters
- Programmable Logic Controller PLC
- Robotics
- Mechatronics
- Automation
- Artificial Intelligence
- Computer Integrated Systems
- Automation Systems Management
- Information Communication Systems
- Quality, Logistics and Maintenance



- Academic:
 - Bachelor
 - Master
 - PhD
- Professional:
 - Specialistic
 - International MBA

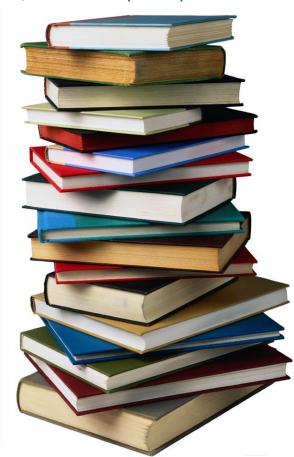


Bachelor studies

- 4 years, 240 ESPB
- Three study programs some of which student chooses to enroll, and at 4th year opts for a

narrower field within the program:

- 1. Industrial Engineering
 - 1. Design, organization and management of automation
 - 2. Information management and communication systems
- 2. Engineering Management
 - 1. The organization and management of the company
 - 2. Innovation and Entrepreneurship
 - 3. Project Management
 - 4. Investment Management
 - 5. Information Management
 - 6. Quality Management and Logistics
 - 7. Risk and Insurance Management
 - 8. Industrial marketing and engineering of media
 - 9. Human Resource Management
- 3. Mechatronics, Robotics and Automation
 - 1. Mechatronics, Robotics and Automation
 - 2. Mechatronics in mechanization





- 2 years, 60 ESPB
- 3 new study programs:
 - Development and product lifecycle management (PLM)
 - Advanced engineering technology
 - Logistic Engineering and Management



Third level academic studies

- PhD studies
 - 3 years, 180 ESPB
 - 2 study programs:
 - Industrial engineering and engineering management
 - Mehatronics

- Specialistic academic studies
 - 3 semesters, 90 ESPB
 - 2 study programs:
 - Industrial engineering
 - Engineering management





Professional studies

- 1 year, 60 ESPB
- Specialistic studies in the field of engineering management :
 - E-business
 - Human Resource Management
 - Public Relations
 - Controlling and Internal Audit
 - Insurance and Risk
 - Media Management
 - Investment Management
 - Actuarial Science and Management
 - Public procurement



International specialistic studies

- MBA Master of Business Administration
- Business Management, 2 years, 180 ESPB
- Partnership cooperation with UBI United Business Institutes from Brussels
- Joint Degree UNS & UBI









Research portfolio

- Research areas:
 - Technology and Production, organizational and management structure of industrial systems
 - Mechatronics, Robotics and Automation
 - Terms of use of information and communication technologies in work processes
 - Quality, efficiency and internal system support and logistics
 - Engineering Management
 - Identification technology

Projects

- Annual and perennial
- National, which is funded by:
 - Ministry of Education and Science and
 - Provincial Secretariat for Science and Technological Development of APV

- International projects:
 - TEMPUS
 - WUS
 - CEEPUS
 - FP7





International Journal of Department of IEM

- International Journal of Industrial Engineering and Management (IJIEM)
- First edition in 2010
- Visibility in the SCOPUS database

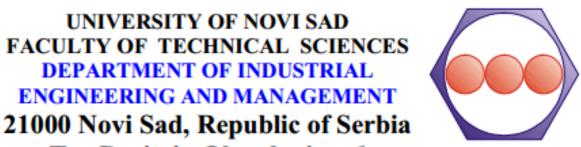
International Journal of INDUSTRIAL ENGINEERING AND MANAGEMENT

Conferences:



UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES DEPARTMENT OF INDUSTRIAL ENGINEERING AND MANAGEMENT

Trg Dositeja Obradovica, 6





organizes

16th International Scientific Conference on INDUSTRIAL SYSTEMS

IS '14

October 15-17, 2014





Mass Customization and Personalization in Central Europe

(2004-2014)

23-26 September 2014 Novi Sad, Serbia

6th International Conference on Mass Customization and Personalization in Central Europe (MCP - CE 2014)

Managing Co-creation and Personalization in Central Europe

Important Dates

Abstract submission deadline: 31 March 2014

Notification to Authors: 14 April 2014

Final paper submission deadline:



Call for Papers for 3 joint events!

6th International Conference on Mass Customization and Personalization in Central Europe (MCP - CE 2014)

16th Configuration Workshop (CWS - 2014)

1st Doctoral Student Workshop (DSW - 2014)



Cooperation with industry

Realized:

- In collaboration with ITC Research and Technology Center and CAM Engineering
- Within its own centers:
 - Centre for Development of Human Resources
 - Center for Youth entrepreneurship
 - Center for Disaster risk management
 - Centre for Product Development and Management and
 - Center for Identification Technology



Zoran Anisic - Curriculum vitae

- Full Professor in the field of Production Systems,
 Organization and Management
- Director of the center for product development and management - "myProduct"
- Head of academic master study programme in product lifecycle management - PLM

Publications:

- > 24 papers in scientific journals
- ➤ 12 chapters in scientific books
- ▶ 6 international conferences organizer and editor of conference proceedings
- ➤ 140 conference papers
- ➤ 5 teaching books
- > 9 international scientific projects
- ➤ 15 industry projects

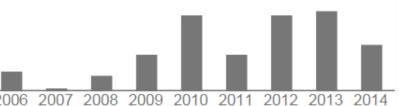


Citations

Google Академик

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h-индекс	6	5
і10-индекс	2	2



Scopus

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Anišić, Zoran

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Author ID: 35309227500

Documents: 20

Citations: 39 total citations by 32 documents

h Index: 4 The h Index considers Scopus articles published ε

Co-authors: 24

Subject area: Engineering, Computer Science View More





Publications in Journals

Anišić, Z., Veža, I., Suzić, N., Sremčev, N., Orčik, A.: Improving Product Design with IPS-DFX Methodology Incorporated in PLM Software, Tehnički vjesnik/Technical Gazette, ISSN 1330-3651, Vol. 20 No. 1, 2013, pp.183-193

Firstner (Furstner) I., Anisic Z., Takac, M.: Product Configurator Self-Adapting to Different Levels of Customer Knowledge, Acta Polytechnica Hungarica. Journal of Applied Sciences, 2012, Vol. 9, No 4, pp.129-150, ISSN 1785-8860

Suzic, N., Stevanov B., Cosic, I., Anisic, Z., Sremcev, N.: Customizing Products trough Application of Group Technology: A Case Study of Furniture Manufacturing, Strojniski vestnik = Journal of Mechanical Engineering, 2012, Vol. 58, No 12, pp. 724-731, ISSN 0039-2480

Anisic Z., Krsmanovic C.: Assembly Initiated Production as a Prerequisite for Mass Customization and Effective Manufacturing, Strojniski vestnik = Journal of Mechanical Engineering, 2008, Vol. 54, No 9, pp. 607-618, ISSN 0039-2480, UDK: 658.5



Conference Chairman

- Mass Customization and Personalization in Central Europe MCP-CE 2008, 2010, 2012, 2014
- International conference on Entreprenurship,
 Innovation and Regional Development ICEIRD 2010
- International conference on Mechatronics in Education Mech-Edu 2011

Teaching books

- Assembly systems and technologies
- Assembly joints, tools and machines
- Assembly systems and technologies workbook
- Product development in PLM
- Integrated Product Development
- Technological and Business Forecasting



Academic courses

- Product Development,
- Decision Theory,
- Technological and Business Forecasting
- Product and Service Management
- Assembly Technologies



International projects

Fostering Students' Entrepreneurship and Open Innovation in University-Industry Collaboration – iDEAlab TEMPUS (2014-2017)

Improvement of Product Development Studies in Serbia and Bosnia and Herzegovina - IPROD (2012 - 2015), 530577-TEMPUS-1-2012-1-RS-TEMPUS-JPCR

Production and Profitability improvement in Serbia Enterprises by adopting Lean Thinking Philosophy and strengthening Enterprise – Academia connections, LeanEA, JPHES 511084-Tempus-2008-IT-JPCR, 2010-2013,

MAS-PALM - MASTER STUDIES AND CONTINUING EDUCATION NETWORK FOR PRODUCT LIFECYCLE MANAGEMENT WITH SUSTAINABLE PRODUCTION, Agreement number – 144959-Tempus-2008-IT-JPCR, 2008-2011,

MECH-EDU, IPA Cross-Border Cooperation Programme, Subotica Tech Colledge of Apllied Studies,

MC-OI Network, Mass Customization and Open Innovation Netowk, Multilateral Porject,

RELOAD - Regional Elements of Logistic Opportunuties Assesment and Development, INTERREG, br. projekta: 05SER03/03/010, Period: 2007 - 2008.

Feasibility Study and Supporting Project Documentation Elaboration for Subotica Industrial Park, INTERREG, br. projekta: 04SER02/01/013, Period: 2007 - 2008.

Activities of the *My Product* Center www.myProduct.rs



Centar za razvoj i menadžment proizvoda

Education:

- Business Seminars,
- Workshops,
- Summer Schools,
- Specialistic Studies

Projects:

- Industrial collaboration,
- Consulting.

Science and Research:

- Int. conference (MCP-CE),
- Publishing journals & books,
- Joint research projects,
- Networking.



Fields of Interest



- PLM Product Lifecycle Management;
- NPD New Product Development;
- MCP Mass Customization and Personalization;
- OI Open Innovation



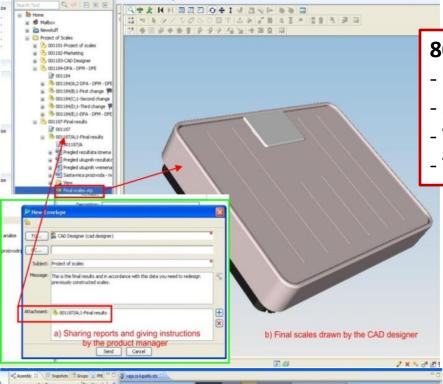




Master of Science in Product Lifecycle Management

1 year 60 ESPB





(0000)

would suggest change of gear batter for ease of making the same.

b) DFM suggestion

c) New design of gear batten

\$ DPM (dm)/dbqD8A

a) Initiation of second change

DFA (dfa)/dba/DBA

1 D

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y Ry oslavi rezz

y Ry poklakinec

y R

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₽ F2 nogca

Symbol of initiated workflow process

340-PMC-ANG-CAHELLOO 🐔 🖹



- NX,
- Solid Edge,
- Tecnomatics,
- Teamcenter



ology Systems, Senjanine Ive 7/16, 11108 Beograd

Sertifikat

o položenom stručnom ispitu

Nemanja Sremčev

TEAMCENTER

Teamcenter:

Engineering Proces Management Requirements Management Lifecycle Visualization Schedule Management

za Industrial Technology Systems

U Beogradu Dana: 13. Jula 2011 godine

Ing. Tihomir Erdeljac Generalni direktor



OPEN INNOVATION Innovative Design Challenge







IDEA » Active assignments

Home

Active assignments

Profile

My suggestions

The stage is not active



Handle

Idea generation for the handle. Mar 4, 2014 - Jan 9, 2014





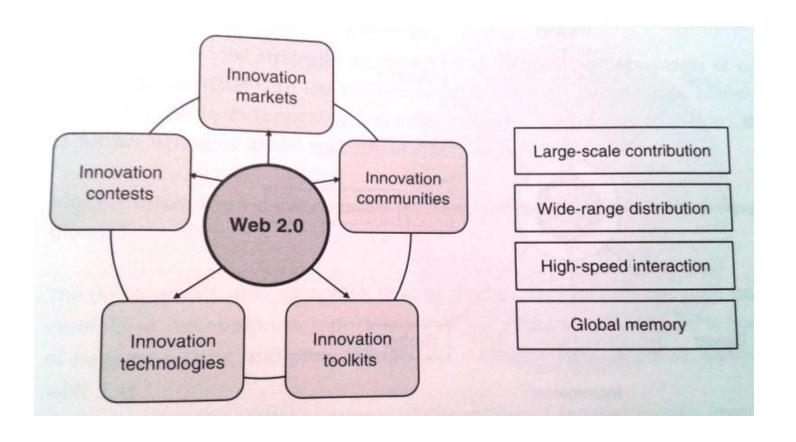
Buggy wheel

Ideas for mounting the buggy wheel.

Dec 3, 2014 - Jan 9, 2014

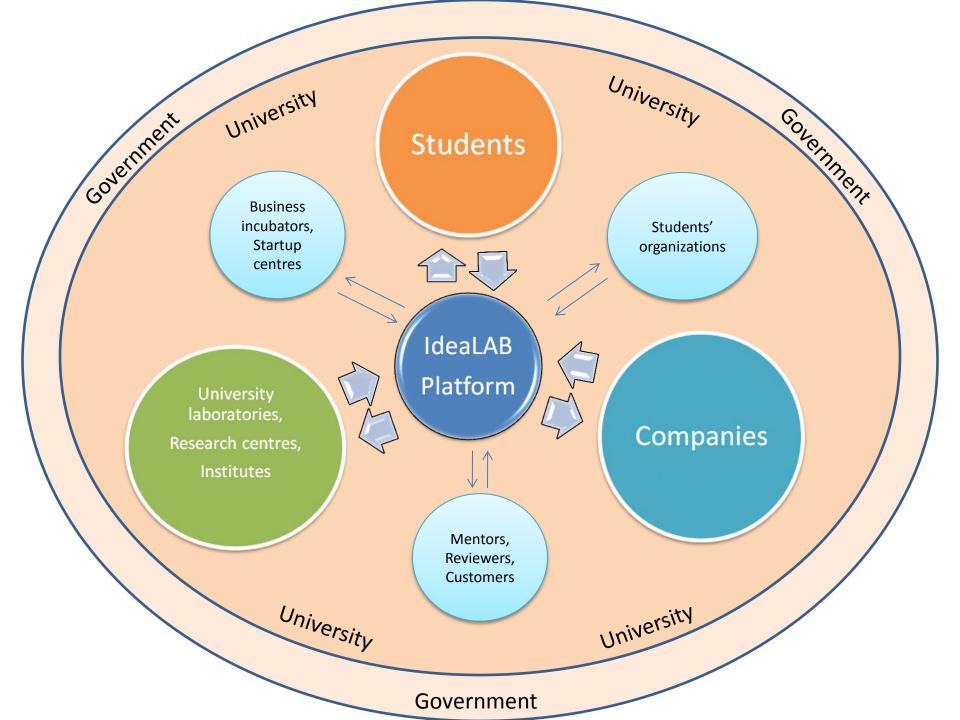


Tools for Open Innovation



Leading Open Innovation, by Anne Sigismund Huff (Editor), Kathrin M. Möslein (Editor), Ralf Reichwald (Editor), The MIT press, 2013.

Chapter 5: Kethrin M. Moslein: Open Innovation: Actors, Tools and Tensions



Innovative Design Challange



Buggy wheel



The description of the project can be found in attachments.

Documents for download		
Ordinal	Document	Name
1.	Adage	Klikni zakljucaj i kreni.pdf
2.	Adage	funkcionalni zahtevi rucka.pdf
3.	Adage	MTM 2 Analiza postavljanja i skidanja rucke za guranje.pdf
4.	Adage	rucka2.pdf
5.	Adage	funkcionalis elvarasok tolokar.pdf
6.	Adohe	Functional requirements.pdf

Messages and stages



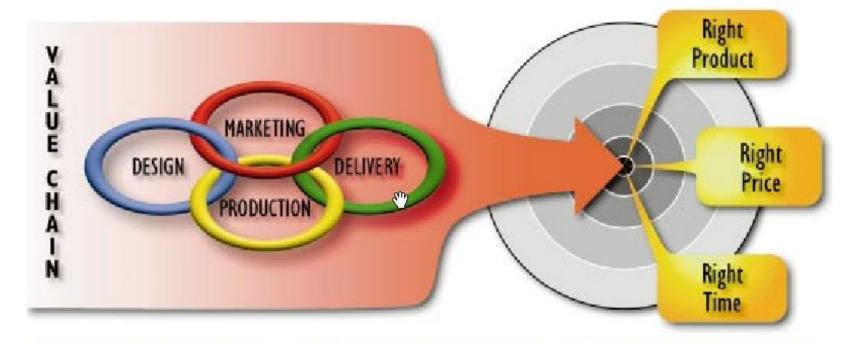
From Mass Production to Mass Customization:

Mass Customization and Personalization means producing goods and services by meeting individual customer's needs with near mass production efficiency.

From one car for all...

...to a unique car for each of us





MASS PRODUCTION

KEY CHARACTERISTICS

MASS CUSTOMIZATION

Make-to-Stock

Predefined

Long

Acceptable

Low

Business Model

Product

Life Cycle

Quality

Price

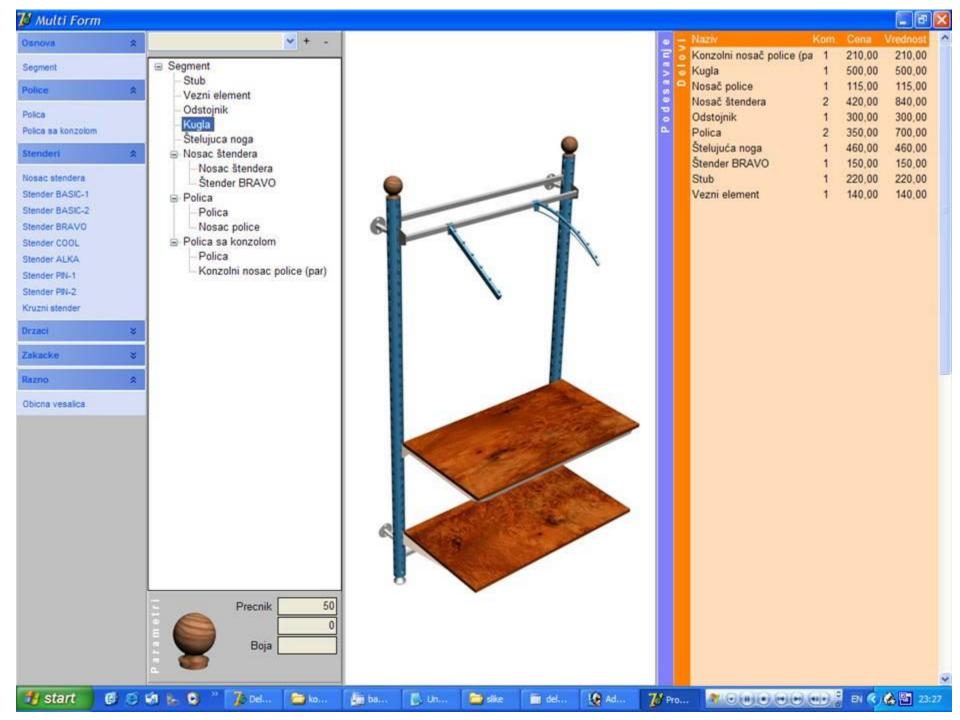
To Order

Configured at Order Entry

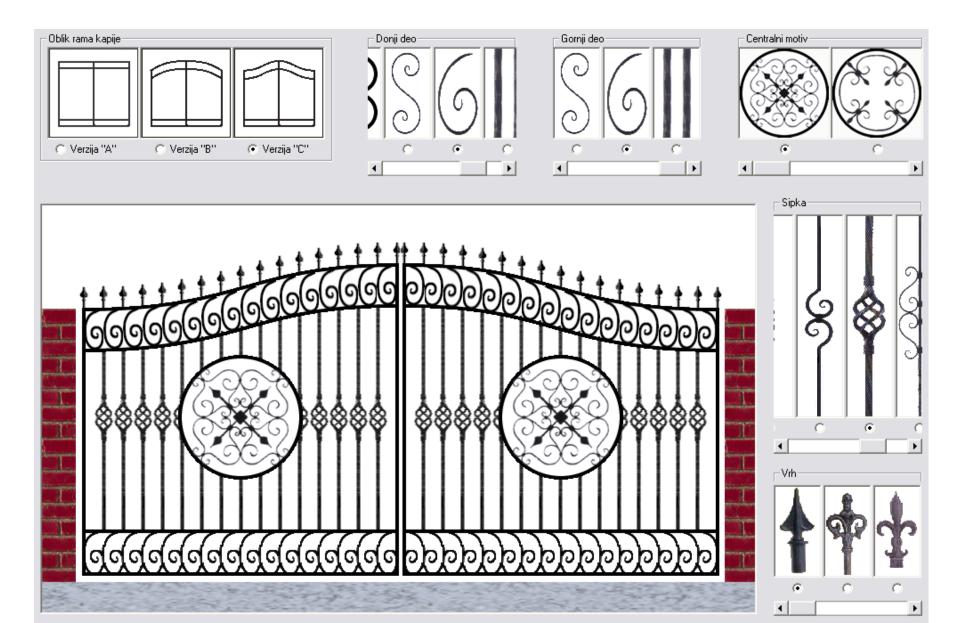
Short

Superior

Competitive



Configurator – www.romic.rs





MASTERPLAST - KONFIGURATOR

INTELLIGENTER KONFIGURATOR FÜR THERMOISOLIERUNG UND GEBÄUDEDEKORATION

Mit dem Masterplast - Konfigurator für Thermoisolierung und Gebäudedekoration können sie alle nötigen Elemente für ihr Haus definieren und sich selbst von den Vorteilen der Thermoisolierung überzeugen, die ihre Investition wird sich in kürze auszahlen.

Mit dem Masterplast - Konfigurator können sie Schritt für Schritt die Bauparameter ihres Gebäudes angeben und die ideale Auswahl treffen für alle Thermoisolierungselemente für Fassade, Keller, Böden, Halbstockwerke und Dachboden.

Mit dem Masterplast - **Konfigurator** können sie ihr Haus dekorieren, wir bieten ihnen eine weite Auswahl an Farbmörtel für Fassaden, Dekoleisten und weitere Dekoelemente aus Styropor.

Das Masterplast System steht ihnen jerderzeit zur Verfügung damit sie ihre optimale Isolierungs- und Dekorationslösung auswählen können.

Wo passiert der Wärmeverlust?





Benutzer registrieren

Vergessenes Passwort

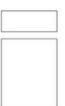
Häufig gestellte fragen

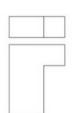


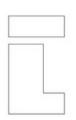
DEFINISANJE OBLIKA I GABARITNIH DIMENZIJA

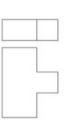
korisnik:vts projekat:ewe verzija:1 <u>odjava</u> početna stranica

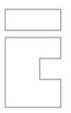
Oblik tlocrta











nivo:

1. sprat





www.masterplast.rs

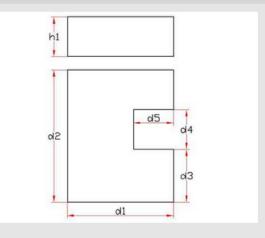
Ako imaš nekih nejasnoća traži pomoć od našeg majstora!

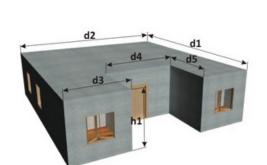
Postavite pitanje našem majstoru

<u>Često postavljena pitanja</u>

Dužinske dimenzije tlocrta (obimne dimenzije) 👔 Visina, odnosno potrebne visine nivoa







Procenat slobodne površine spoljnih zidova nivoa zgrade

A1: A5: 100% 🔻 10% -

d5:

0.25 [m] 🔻



On behalf of the organizing committee we are pleased to announce the 6th International Conference on Mass Customization and Personalization in Central Europe (MCP - CE 2014) when we proudly celebrate the 10th anniversary of our activities.

Organized for the sixth time, the biannual MCP-CE conference er of Customer Co-Creation that offers customers a chance to exp opportunity for innovations and new business models such a Innovation platforms, for sharing designs and developments and

New Business Models User Driven Innovation Co-creation Crowdsourcing Personalization

Open Innovation Mass Customization

Social Media Co-working Space Additive Manufacturing Innovation Platform Craft customization Crowd Intelligence Open Service

Effective Manufacturing Lean Organization

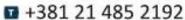
www.mcp-ce.org



Thank you for your attention!







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+381 64 120 32 73

anisic@uns.ac.rs www.myproduct.rs



Center for Product Development and Management

