

Steering Committee meeting

20th April 2010, Banja Luka

WBC-VMnet Project WBC Partner presentation

Živko Babić, University of Banja Luka

Živko Babić

This project has been funded with support from the European Commission

Outline

- ❖ Overall achievements
- ❖ Obstacles and shortcomings
- ❖ Key project results, per Outcomes
- ❖ Conclusions

Živko Babić

This project has been funded with support from the European Commission

Overall achievements

At the University of Banja Luka has achieved the following results:

- Collaborative Training Center Banja Luka (CTC) is established
- CTC is equipped with 10 computers and a projector and software
- Analyzed models UNI-ENT cooperation and included in the brochure
- Bring new VMnet members (more 40)
- TSNA analysis was finished
- Made final analysis of TSNA B&H
- Prepared a motivational seminar „Join and Benefit“ and scheduled for 21/04/2010

Živko Babić

This project has been funded with support from the European Commission

Obstacles and shortcomings

- Complicated procedure of: an account opening, forming of CTC, purchase of an equipment, tax reliefs
- Public procurement procedures are different from others in the WBC region and complicated
- Vague responsibility of the university and the faculty
- No financial support from other sources
- Complex and long procurement procedures
- Low levels of interest for cooperation

Key project results, per Outcomes

OUTCOME 1: Collaborative Training Center Banja Luka (CTC) is established...

- Elaboration on establishing of CTC is made
- Decisions of the University and Faculty of Mechanical Engineering Banja Luka are made
- Collaborative Training Center is established at the Faculty of Mechanical Engineering
- CTC is equipped with furniture, internet network, 10 PC, 1 projektor (VAT exemption procedure have been established and applied public procurement procedures)
- Installed the software AutoCAD, Solid Works, CATIA, MatCAD, ...
- It is now in the process of public procurement of software for 2D/3D FE bulk metal forming simulation

Živko Babić

This project has been funded with support from the European Commission

Room prior to and during equipment



Živko Babić

This project has been funded with support from the European Commission

Photos of the CTC after the equipment



Živko Babić

This project has been funded with support from the European Commission

OUTCOME 2: VMnet network is enlarged throughout the WBC region...

- Bring new VMnet members
- Results of that are more 40 new members

Poštovani,
u sklopu TEMPUS projekta: **WBC-VMnet mreža korisnika virtualne proizvodnje** (www.wbc-vmnet.rs), u čijoj realizaciji učestvuje i Mašinski fakultet Univerziteta u Banjoj Luci, jedna od aktivnosti je proširenje postojeće VMnet mreže sa novim članovima akademske i privredne zajednice.

Registovanjem postajete dio mreže korisnika i eksperata iz područja CAD/CAM/CAE, RP/RT/RE, VR, proizvodnih tehnologija i materijala, koji će Vam pomoći u razvoju novih proizvoda i procesa ili jednostavno pružiti zanimljive informacije i materijale iz navedenih područja. Postojeći fond materijala iz navedenih područja se stalno obnavlja i raste, te iste možete koristiti u svakodnevnoj praksi.

Relevantne informacije iz navedenih područja uključujući i nova izdanja e-časopisa redovno će Vam stizati putem e_maila, koji navedete pri registraciji.

Da bi postali član VMnet mreže dovoljno je na adresi www.wbc-vmnet.rs u desnom donjem dijelu stranice kliknuti na **JOIN AND BENEFIT** i izvršiti registraciju. Registracija je besplatna.

Zamoljavam da i drugima, koji s Vama sarađuju, preporučite da posjete adresu www.wbc-vmnet.rs i da se registruju.

Šire informacije u vezi projekta možete dobiti i direktnim kontaktom na donju adresu.

S poštovanjem,

Dr Živko Babić, docent
Mašinski fakultet
Stepe Stepanovića 71
78000 Banja Luka
tel: 051/462321,
mob: 065/462982
e-mail: babicz@urc.rs.ba

Živko Babić

The letter that was sent to some addresses

This project has been funded with support from the European Commission

OUTCOME 3: Model for university-enterprise cooperation

- EU model for cooperation in the knowledge triangle is analyzed
- Obtained is an example of good cooperation - University of Applied Sciences Cologne (Köln) is taken as a good example of University-enterprise cooperation
- Analyzed model for University-enterprise cooperation and presented example will be very useful for development of new regional model for university-enterprise cooperation and included in the brochure “The WBC regional model for university-enterprise cooperation”
- Analysis of the universities, companies, government authorities in Bosnia and Herzegovina and included in the brochure
- Draft version of the brochure posted on the university website
- Performed the distribution of information and draft versions of the local environment

Živko Babić

OUTCOME 4: Training/service needs analysis (TSNA)

- Analyzed the documents (4 types of questionnaires)
- Documents are adapted to local conditions
- Prepared the list of company for TSNA analysis
- Covers a wide region in the Republic of Srpska
- Contacts: direct, e-mail, phones
- Cooperation with the National Employment Agency
- Data were collected and statistically analyzed for 19 enterprises
- Made a report on TSNA analysis

- Conducted research in companies that belong to the following sectors: Manufacturing (metal processing, wood processing, plastics and rubber processing, manufacture of engines, ...)
- TSNA was completed with 103 questionnaires (4 types of questionnaires)

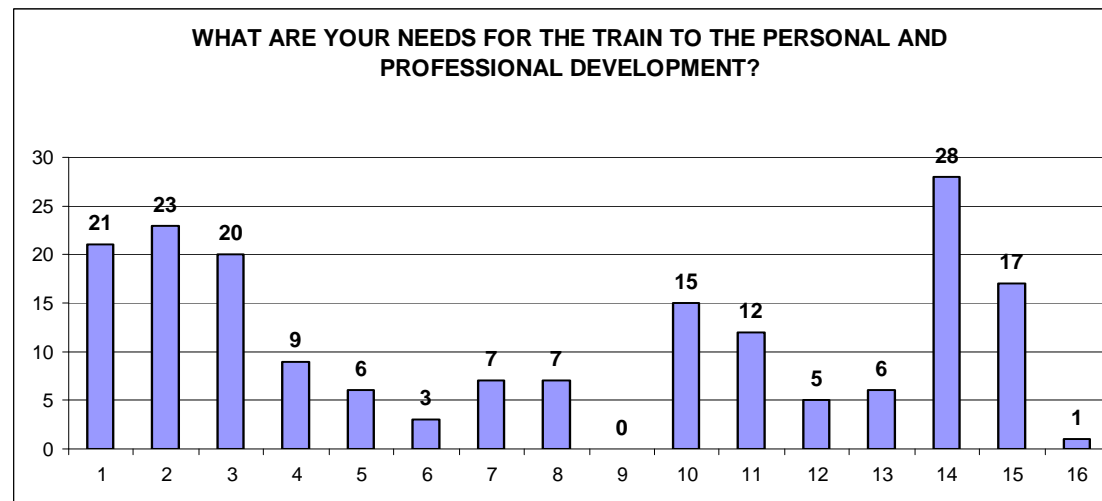
TSNA analysis in Bosnia & Herzegovina							
No	Performed by partner	Place	QD-01-TSNA general QD	QD-02-TSNA manager QD	QD-03-TSNA employed QD	QD-03-TSNA unemployed QD	TOTAL QD
1	UBL	Bosnia&H erzegovina	18	18	38		74
2	TRIBEST	Bosnia&H erzegovina	1	1	3		5
4	NEA	Bosnia&H erzegovina				24	24
						TOTAL	103

The analysis included companies of the region of Banja Luka and another from 6 municipalities from the Republic of Srpska:

University of Banja Luka						
No.	Company Name	Location	Number of completed questionnaires of general QD1-Personnel Department	Number of completed questionnaires for managers-QD2	Number of completed questionnaires for employees-QD2	The total number of completed questionnaires
1	DALEKOVID – TKS	Doboj	1	1	4	6
2	Jelšingrad FMD a.d.	Prnjavor	1	1	1	3
3	DASSTIM d.o.o.	Banja Luka	1	1	1	3
4	KIS PRODUKT	Trn, Laktaši	1	1	2	4
5	KALDERA COMPANY, d.o.o.	Laktaši	1	1	2	4
6	ELKER, d.o.o	Prijedor	1	1	1	3
7	ISKRA AE Komponente, d.o.o.	Laktaši	1	1	4	6
8	KOLEKTOR BOSNA, d.o.o.	Laktaši	1	1	5	7
9	KOMING, d.o.o.	Gradiška	1	1	2	4
10	Spektra DMG d.o.o.	Banja Luka	1	1	2	4
11	BINIS d.o.o.	Banja Luka	1	1	1	3
12	LIR	Banja Luka	1	1	1	3
13	SELENA d.o.o.	Banja Luka	1	1	2	4
14	ELAS KOMERC d.o.o.	Banja Luka	1	1	5	7
15	VUKELIĆ d.o.o.	Aleksandrovac	1	1	1	3
16	EUROMOTOR d.o.o.	Banja Luka	1	1	2	4
17	SIMKE, d.o.o.	Čelinac	1	1	1	3
18	MAGREL, d.o.o.	Banja Luka	1	1	1	3
19	TRIBEST	Banja Luka	1	1	3	5
						79

The results of the TSNA:

Necessary training in the opinion of employers:

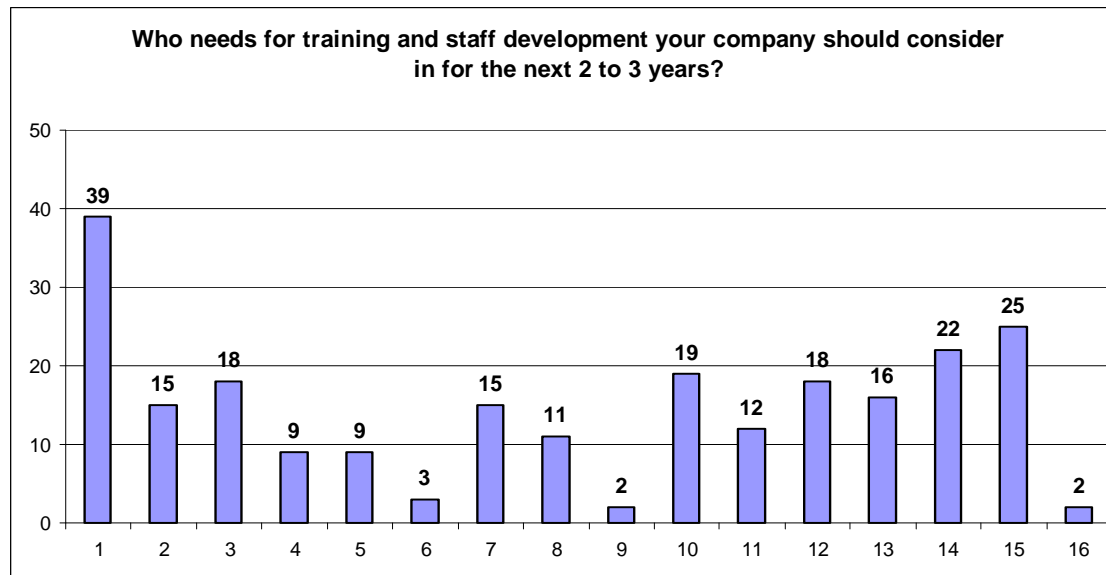


Answer 1	Specialized training related to the type of the Company
Answer 2	Advanced CAD Modeling
Answer 3	CAM modeling and NC programming
Answer 4	From design, virtual manufacturing to users
Answer 5	Design tools for plastics
Answer 6	Competitive Engineering
Answer 7	Design and optimization of production processes with the help of virtual production
Answer 8	Industrial Design
Answer 9	Bioengineering - Applications
Answer 10	Information seminars about the new trends
Answer 11	Writing and Project Management
Answer 12	Business communication and negotiation
Answer 13	Practical Business Marketing
Answer 14	Foreign language learning
Answer 15	Introduction of new quality certification and training for them
Answer 16	Else

Živko Babić

This project has been funded with support from the European Commission

Necessary training in the opinion of employees:



Answer 1	Specialized training related to the type of the Company
Answer 2	Advanced CAD Modeling
Answer 3	CAM modeling and NC programming
Answer 4	From design, virtual manufacturing to users
Answer 5	Design tools for plastics
Answer 6	Competitive Engineering
Answer 7	Design and optimization of production processes with the help of virtual production
Answer 8	Industrial Design
Answer 9	Bioengineering - Applications
Answer 10	Information seminars about the new trends
Answer 11	Writing and Project Management
Answer 12	Business communication and negotiation
Answer 13	Practical Business Marketing
Answer 14	Foreign language learning
Answer 15	Introduction of new quality certification and training for them
Answer 16	Else

Živko Babić

This project has been funded with support from the European Commission

OUTCOME 6: Dissemination

- Prepared a motivational seminar „Join and Benefit“ and scheduled for 21/04/2010

Agenda for motivational seminar

Živko Babić



Univerzitet u Banjoj Luci, sa fakultetima kao organizacionim jedinicama, daje značajan doprinos razvoju nastavno-obrazovne i naučno-istraživačke djelatnosti i predstavlja važan oštarac privrednog i kulturnog razvoja Republike Srbije.

Danas je Univerzitet u Banjoj Luci izrastao u modernom obrazovni i istraživački centar obuhvativši gotovo sve glavne oblasti nastave i istraživanja. Sačinjavaju ga od 16 fakulteta sa 52 licencirane studijske programa na kojima radi oko 650 profesora i 400 asistenta i inženjera studira 17.000 studenata. Do sada je više od 18.000 studenata diplomiralo na Univerzitetu, 650 magistriralo i 300 osvojilo doktorsku titulu. Velicine fakulteta je smanjena u dva kampusa nastale od obnove trike Vršac.



Mašinski fakultet Banja Luka doprinosi bitnom privrednom i društvenom razvoju, ne samo Banje Luke, već i cijele Republike Srbije. Obrazovanje na fakultetu obuhvata čitav spektar razvoja moderne i savremene tehnologije u skladu sa evropskim trendovima.

Mašinski fakultet je trajni izvor naučnih i nastavnik djelatnosti, tehnologija i usluga koje su potrebne privrednom sektoru.

Mašinski fakultet Banja Luka, kao obrazovna i naučna ustanova, stalno vrši inovirane nastavnik djelatnosti, uz primjenu savremenih metoda i tehnika edukacije i kroz istraživački proces stvara i kvalitetne stručnjake u oblasti mašinskih nauka, s ciljem da se osposobe da budu ispunjeni u razvoju industrije Republike Srbije.

Mašinski fakultet Banja Luka nastoji da se razvije u modernu evropsku visokoškolsku instituciju koja će biti pripremljena po svojim naučnim i istraživačkim dostignućima u oblasti mašinske tehnike.



Centar za virtualnu proizvodnju (CeVIP) osnovan je 2006. godine na Mašinskom fakultetu u Kragujevcu, kao naučno-istraživački centar u okviru projekta „Virtualna proizvodnja kao podrška preduzećima u Srbiji“, koji finansira EU a sponzorirana je Agencija za rekonstrukciju.

CeVIP ima neophodne kapacitete za primjenu inovativnih tehnologija virtuelnog inženjeringa u razvoju proizvoda i procesa. Aktivnosti koje se odvijaju u okviru CeVIP trebaju doprinijeti postizanju kapaciteta proizvodnih preduzeća, da u svoje postojanje uvedu novi pristup u razvoju proizvodnje i procesa, baziran na primjeni VM tehnologija, prošire spektar ponude prema postojećim i potencijalnim klijentima, a fakultetu da se, sa jedne strane, približi potrebama krajnjih korisnika rezultata istraživanja kroz strateško umrežavanje, a sa druge strane, da komercijalizuju svoje potencijale.

Kao efekasan mehanizam za saradnju sa preduzećima CeVIP je uspostavio VMnet mrežu početkom 2007. godine, koja sada broji skoro 800 članova iz svih zemalja Zapadnog Balkana.

AGENDA

21. april 2010.

09.45 – 10.15 Registracija učesnika

10.15 – 10.30 Pozdravna obraćanja

10.30 – 11.00 Plenarna sesija
 Predstavljanje projekta WBCVMnet, Saradnja Univerziteta i industrije – ključ ekonomskog razvika BiH i Republike Srbije.

Prof. dr Vesna Mandić, koordinator projekta, Mašinski fakultet u Kragujevcu

11.00 – 11.30 Plenarna sesija
 Predstavljanje rezultata TSNA analize u Republici Srbiji – potrebe za obukama i uslugama

Prof. dr Živko Babić, Mašinski fakultet Banja Luka

11.30 – 11.45 Dodjela zahvalnica preduzećima

11.45 – 12.15 Pres konferencija

11.45 - 12.15 Kafes pauza

12.15 – 12.45 Diskusija - Predlaaganje i razmatranje liste specijalizovanih obuka

12.45 – 13.30 Plenarna sesija

Evropski model i izgradnja regionalnog modela saradnje univerziteta i preduzeća

Prof. dr Vesna Mandić, Mašinski fakultet u Kragujevcu

Prof. dr Živko Babić, Mašinski fakultet Banja Luka

13.45 – 15.15 Ručak

15.30 Završetak seminara

Poštovani,
 Imamo čast i zadovoljstvo pozvati Vas na aktivno učešće u jednodnevnom događaju:

motivacionom seminaru

„Prikluči se i profitiraj“

koji će se održati u srijedu, 21. 04. 2010. godine na Mašinskom fakultetu, Univerziteta u Banjoj Luci, sa početkom u 10 časova

Ciljevi

Cilj motivacionog seminara je prezentacija i diskusija o mogućim vidovima saradnje Univerziteta i industrije u svrhu povećanja inovativnog potencijala i konkurentnosti preduzeća u Bosni i Hercegovini i Republici Srbiji, koja predstavlja ključ za integraciju troygla znanja, koja čine obrazovanje, istraživanje i inovacije. Osim prezentacije primjera dobre evropske prakse i nekih modaliteta saradnje Univerziteta i preduzeća biće predstavljani rezultati TSNA (analiza potreba za obukama i uslugama, koja je izvršena u Republici Srbiji), u okviru WBC-VMnet projekta) kao i rezultati dvostranog rada na formiranju mreže korisnika virtuelne proizvodnje, koja sada broji skoro 800 članova.

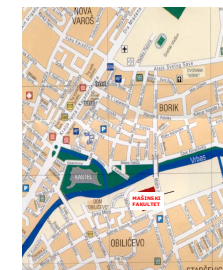
Ciljne grupe

Ovaj seminar je namijenjen preduzećima, inženjerima, istraživačima i ostalim grupama zainteresovanim za sticanje novih znanja o primjenama čitave evropske prakse u oblasti saradnje Univerziteta i industrije.

Korisni za učesnike:

- inovacija znanja o novim tehnologijama i uslugama u oblasti proizvodnje
- učešće u izboru obuka čiji će razvoj i implementacija biti ostvareni u narednom periodu, u skladu sa potrebama preduzeća
- razmjena iskustava i znanja sa ostalim članicama VMnet mreže
- definisanje pravaca buduće saradnje.

Mapa



POZIV
 ZA
 MOTIVACIONI SEMINAR
„PRIKLUČI SE I PROFITIRAJ“

21. april 2010.
 Mašinski fakultet Banja Luka
 Vojvode Stepe Stepanovića 71



Virtuelna proizvodnja kao podrška preduzećima u Republici Srbiji
 Projektat finansira EU

Univerzitet u Banjoj Luci
 Mašinski fakultet Banja Luka
 Vojvode Stepe Stepanovića 71, 78000 Banja Luka
 Tel: 051/ 462 321; 065/642 982
 Fax: 051/ 465 085
 e-mail: mbabic@vrc.rs.ba

Pripremljeno se za učešće na:
 Motivacionom seminaru „Prikluči se i profitiraj“

PRILAZ ZA UČEŠĆE

Conclusions

- Current cooperation with industry is insufficient
- Creates conditions for further implementation of the project
- Improve cooperation of university and enterprises

Živko Babić

This project has been funded with support from the European Commission



Thank you for your attention



Živko Babić

This project has been funded with support from the European Commission