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IMPLEMENTATION OF DUAL EDUCATION IN HIGHER EDUCATION OF SERBIA

DualEdu

Implementation of Dual Education in Higher Education of Serbia / DualEdu

Prof. Dr.-Ing. Nenad Zrnić

Participants – Partner organisations

Partner no	PIC	Role	Organisation Name	City	Country
P1	999641843	Applicant Organisation	UNIVERZITET U BEOGRADU	BEOGRAD	Serbia
P2	999489456	Partner Organisation	FH JOANNEUM GESELLSCHAFT M.B.H.	GRAZ	Austria
P3	944015835	Partner Organisation	Formasup	Villeneuve d'Ascq	France
P4	999838559	Partner Organisation	UNIVERSIDAD DE LLEIDA	LLEIDA	Spain
P5	967298357	Partner Organisation	SPOLECZNA AKADEMIA NAUK	LODZ	Poland
P6	913947581	Partner Organisation	PowMio GmbH	Karlsruhe	Germany
P7	960092227	Partner Organisation	VISOKOSKOLSKA USTANOVA METROPOLITANUNIVERZITET U BEOGRADU	Belgrade	Serbia
P8	998833833	Partner Organisation	UNIVERZITET U NOVOM SADU	NOVI SAD	Serbia

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P8	998833833	Partner Organisation	UNIVERZITET U NOVOM SADU	NOVI SAD	Serbia
P9	998850323	Partner Organisation	UNIVERZITET U KRAGUJEVCU	KRAGUJEVAC	Serbia
P10	933416257	Partner Organisation	DRZAVNI UNIVERZITET U NOVOM PAZARU	NOVI PAZAR	Serbia
P11	940285603	Partner Organisation	VISOKA SKOLA ELEKTROTEHNIKE I RACUNARSTVA STRUKOVNIH STUDIJA	Belgrade	Serbia
P12	999821681	Partner Organisation	MINISTARSTVO PROSVETE, NAUKE I TEHNOLOSKOG RAZVOJA	BELGRADE	Serbia
P13	947217708	Partner Organisation	National Council for Higher Education of the Republic of Serbi	Belgrade	Serbia
P14	915736261	Partner Organisation	Cluster Ni-CAT	Nis	Serbia

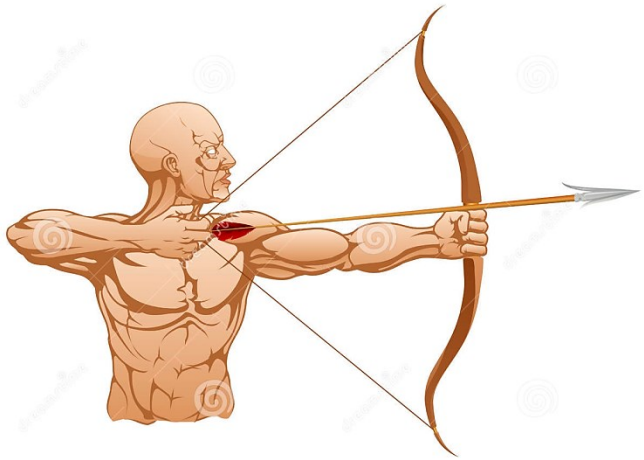
Participants – Associated Partners

Ref.nr	Name of organisation	Type of institution	City	Country	Role in the project
1.	NetCast doo	SME	Belgrade	Serbia	Survey of needs and potential DHEM implementation
2.	URIDIUM DOO VALJEVO	SME	Valjevo	Serbia	Survey of needs and potential DHEM implementation
3.	NGSOFTWARE DOO	SME	Niš	Serbia	Survey of needs and potential DHEM implementation
4.	MELANY TEAM DOO	SME	Belgrade	Serbia	Survey of needs and potential DHEM implementation
5.	S-Cube Solution d.o.o.	SME	Belgrade	Serbia	Survey of needs and potential DHEM implementation
6.	Mladen Trisic PR Konsultantske usluge u oblasti Informacione Tehnologije	SME	Obrenovac	Serbia	Survey of needs and potential DHEM implementation
7.	Fox Electronics doo	SME	Belgrade	Serbia	Survey of needs and potential DHEM implementation
8.	Mihajlovic Soft d.o.o.	SME	Niš	Serbia	Survey of needs and potential DHEM implementation
9.	JAVNO PREDUZECE EMISIONA TEHNIKA I VEZE BEOGRAD	National public body	Belgrade	Serbia	Survey of needs and potential DHEM implementation
10.	FUL Elektro d.o.o.	SME	Belgrade	Serbia	Survey of needs and potential DHEM implementation
11.	Vojvodina ICT Cluster	NGO	Veternik	Serbia	Survey of needs and potential DHEM implementation
12.	Seavus d.o.o.	SME	Belgrade	Serbia	Survey of needs and potential DHEM implementation
13.	Innovative Software Technologies - IST	SME	Niš	Serbia	Survey of needs and potential DHEM implementation

Project start and end date

15.10.2017.

15.10.2020.





Project description

- Dual Education is a unique education model, which combines classroom-based education with work experiences. Aiming to improve the relevance and effectiveness of education, meaning that education has to provide graduates with competences required by employers and job market, Serbian Government is giving high priority to implementation of Dual Education. This project has to specify a generic, flexible Dual Higher Education (DHE) model to be implemented in Serbia, after testing different derived specific models during their pilot implementations. Some sectors, such as IT, need to employ students due to the lack of IT graduates. Other sectors are expecting graduates to have competences more in line with their needs.

Project summary

- After analysis best practices in Europe and worldwide, and after interviewing interested companies in Serbia what DHE models are the most suitable to them, the project will specify a flexible and generic DHE model from which different specific DHE models could be derived and implemented according to companies requirements. The project plans to propose amendments to the corresponding legislation (Law on Dual Education, Law on Higher Education, Labour Law) and to accreditation standards. The selected DHE models will be tested during their pilot implementations by all Serbian HEIs participating in the project and with companies - its associate members, during the second half of this 3-years project. At the end, a survey and interviews of companies with and without DHE students will identify benefits of introducing DHE in Serbia.

Project aims and objectives

- Aims:
  - Accessibility of the higher education is addressed by providing students possibility to work and earn during their studies.
  - By implementing DHE, Serbia converges its HE system with EU development in HE.
- Objectives:
  - By integrating classroom learning and work practice, DHE will have a positive impact to HE quality, i.e. its relevance for the labour market and society.
  - By setting the legislation for DHE, national authorities will modernize Serbian HE system.Dissemination activities are defined in separate work package – WP 6

Specific project objectives

- To enable students to acquire more relevant knowledge and skills by combining formal education with training acquired at the work place.
- To propose the changes to legislation/regulations to adapt to Dual Higher Education in the Republic of Serbia
- To develop flexible and generic Dual Higher Education Model (DHEM) to support different needs and interests of employers, higher education institutions (HEIs) and students in different industrial sectors and to provide recommendations to HEIs for implementation of Dual Higher Education
- To raise the motivation of students to study and interest of HEIs and companies to support and implement Dual Higher Education and to decrease drop-out of students.

Work Packages and tasks

- **WP1 - Preparation**
  - 1.1. Analysis of EU practices and experiences
  - 1.2. Study visits of EU partners
  - 1.3. Survey of companies needs for DHE in Serbia
- **WP2 - Development**
  - 2.1. Development of a flexible and generic Dual Higher Education Model for Serbia
  - 2.2. Conference on DualEdu added value on industrial sector
  - 2.3. Discussion Forum on the proposed DHEM model with key stakeholders and policy makers
- **WP3 - Development**
  - 3.1. Creating amendments to the Law on Dual Education and Law on Higher Education of Serbia
  - 3.2. Creating amendments to the Labour Law
  - 3.3. Creating amendments to the Accreditation Standards
  - 3.4. Discussion forum on draft proposals of amendments
  - 3.5. Creating recommendations to HEIs in Serbia how to implement DHE
- **WP4 - Development**
  - 4.1. Identification and conceptual definition of specific DHEMs
  - 4.2. Presenting specific DHEMs to companies and making agreements for participation
  - 4.3. Planning of pilot testing of specific DHEMs
  - 4.4. Purchase of equipment
  - 4.5. Development of training materials
  - 4.6. Purchase of equipment
  - 4.7. Analysis of the results of pilot testing
- **WP5 - Quality plan**
  - 5.1. Creating quality and evaluation strategy and project quality monitoring
  - 5.2. Preparation of the interim evaluation report
  - 5.3. Preparation of the final evaluation report
- **WP6 - Dissemination & Exploitation**
  - 6.1. Defining dissemination and exploitation plan
  - 6.2. Preparation of dissemination products
  - 6.3. Preparation of the interim dissemination and exploitation report
  - 6.4. Preparation of the final dissemination and exploitation report
  - 6.5. Final Conference
- **WP7 - Management**
  - 7.1. Overall project management
  - 7.2. 5 Steering Committee meetings
  - 7.3. 7 Local Committee meetings
  - 7.4. Monitoring and interim report
  - 7.5. Final report

Work Plan for year 1

Activities		Total duration (number of weeks)	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12
Ref.nr/ Sub-ref nr	Title													
1.1.	Analysis of EU practices and experiences		4X=	4X=	4X=	4X=	4X=	4X=						
1.2.	Study visits of EU partners			1=	1=	1=	1=	1=						
1.3.	Survey of companies needs for DHE in Serbia		4X	4X	4X	4X								
2.1.	Development of a flexible and generic Dual Higher Education Model for Serbia				4X	4X	4X	4X	4X					
2.2.	Conference on DualEdu added value on industrial sector							2X						
2.3.	Discussion Forum on the proposed DHEM model with key stakeholders and policy makers								4X					
3.1.	Creating amendments to the Law on Dual Education and Law on Higher Education of Serbia							4X	4X	4X				
3.2.	Creating amendments to the Labour Law							4X	4X	4X				
3.3.	Creating amendments to the Accreditation Standards							4X	4X	4X				
3.4.	Discussion forum on draft proposals of amendments									4X				
3.5.	Creating recommendations to HEIs in Serbia how to implement DHE													
4.1.	Identification and conceptual definition of specific DHEMs										4X	4X	4X	4X

Work Plan for year 1

4.2.	Presenting specific DHEMs to companies and making agreements for participation											4X	4X
4.3.	Planning of pilot testing of specific DHEMs											2X	2X
4.4.	Purchase of equipment								2X	2X	2X	2X	2X
4.5.	Development of training materials											4x	3x
5.1.	Creating quality and evaluation strategy and project quality monitoring		4X=	4X=	4X=	1X=	1X=	1X=	1X=	1X=	1X=	1X=	1X=	1X=
6.1.	Defining dissemination and exploitation plan		4X	4X									
6.2.	Preparation of dissemination products		1X	1X	1X	1X	1X	1X	1X	1X	1X	1X	1X	1X
7.1.	Overall project management		1X	1X	1X	1X	1X	1X	1X	1X	1X	1X	1X	1X
7.2.	5 Steering Committee meetings		1X							1X				
7.3.	7 Local Committee meetings			1X					1X	1X				

Work Plan for year 2

Activities		Total duration (number of weeks)	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12
Ref.nr/ Sub-ref nr	Title													
4.1.	Identification and conceptual definition of specific DHEMs		4X											
4.2.	Presenting specific DHEMs to companies and making agreements for participation		4X	4X	1X	1X	1X	1X	1X	1X	1X	1X	1X	1X
4.3.	Planning of pilot testing of specific DHEMs		1X	1X	1X	1X	1X	1X	1X	1X	1X	1X	1X	1X
4.4.	Purchase of equipment		2X	2X	2X									
4.5.	Development of training materials		4X	4X	4X	4X	4X	4X	4X	4X	4X	4X	4X	4X
4.6.	Pilot implementation and testing of specific DHEMs					4X	4X	4X	4X	4X	4X	4X	4X	4X
5.1.	Creating quality and evaluation strategy and project quality monitoring		1X=	1X=	1X=	1X=	1X=	1X=	1X=	1X=	1X=	1X=	1X=	1X=
5.2.	Preparation of the interim evaluation report						4X							
6.1.	Defining dissemination and exploitation plan		4X	4X										
6.2.	Preparation of dissemination products		1X	1X	1X	1X	1X	1X	1X	1X	1X	1X	1X	1X
6.3.	Preparation of the interim dissemination and exploitation report					2X	4X	4X						
7.1.	Overall project management		1X	1X	1X	1X	1X	1X	1X	1X	1X	1X	1X	1X
7.2.	5 Steering Committee meetings		1X							1X				
7.3.	7 Local Committee meetings		1X											1X
7.4.	Monitoring and interim report							4x						

Work Plan for year 3

Activities		Total duration (number of weeks)	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12
Ref.nr/ Sub-ref nr	Title													
3.5.	Creating recommendations to HEIs in Serbia on how to implement DHE								4X	4X	4X	4X	4X	4X
4.2.	Presenting specific DHEMs to companies and making agreements for participation		1X	1X	1X									
4.3.	Planning of pilot testing of specific DHEMs		1X	1X	1X									
4.5.	Development of training materials		4X	4X	4X	2X								
4.6.	Pilot implementation and testing of specific DHEMs		4X	4X	4X	4X	4X	4X	4X	4X				
4.7.	Analysis of the results of pilot testing								4X	4X	4X	4X	4X	
5.1.	Creating quality and evaluation strategy and project quality monitoring		1X=	1X=	1X=	1X=	1X=	1X=	1X=	1X=	1X=	1X=	1X=	1X=
5.3.	Preparation of the final evaluation report											4X	4X	4X
6.1.	Defining dissemination and exploitation plan		4X											
6.2.	Preparation of dissemination products		1X	1X	1X	1X	1X	1X	1X	1X	1X	1X	1X	1X
6.4.	Preparation of the final dissemination and exploitation report											2X	4X	4X
6.5.	Final Conference												4X	4X
7.1.	Overall project management		1X	1X	1X	1X	1X	1X	1X	1X	1X	1X	1X	1X
7.2.	5 Steering Committee meetings													1X
7.3.	7 Local Committee meetings								1X					1X
7.5.	Preparation of final report													4x

Project overall budget

A – EU Grant requested for the project activities		
1. Staff costs	396 878,00 €	Cannot exceed 40% of total A
2. Travel costs	80 925,00 €	
3. Costs of stay	153 690,00 €	
4. Equipment	297 693,00 €	Cannot exceed 30% of total A
5. Subcontracting	63 124,00 €	Cannot exceed 10% of total A
TOTAL A	**992 310,00 €**	Must be higher than or equal to 500.000€ and less than or equal to 1.000.000 €

Distribution of grant by organization

Partner n°	PIC code	Partner Name	Grant requested
P1	999641843	UNIVERZITET U BEOGRADU	162 387,00 €
P2	999489456	FH JOANNEUM GESELLSCHAFT	35 686,00 €
P3	944015835	Formasup	33 005,00 €
P4	999838559	UNIVERSIDAD DE LLEIDA	28 420,00 €
P5	967298357	SPOLECZNA AKADEMIA NAUK	22 865,00 €
P6	913947581	PowMio GmbH	32 027,00 €
P7	960092227	VISOKOSKOLSKA USTANOVA ME	138 180,00 €

Distribution of grant by organisation

Partner n°	PIC code	Partner Name	Grant requested
P8	998833833	UNIVERZITET U NOVOM SADU	121 732,00 €
P9	998850323	UNIVERZITET U KRAGUJEVCU	123 409,00 €
P10	933416257	DRZAVNI UNIVERZITET U NOV	118 425,00 €
P11	940285603	VISOKA SKOLA ELEKTROTEHNI	99 102,00 €
P12	999821681	MINISTARSTVO PROSVETE, NA	28 550,00 €
P13	947217708	National Council for High	24 222,00 €
P14	915736261	Cluster Ni-CAT	24 300,00 €

Total grant requested

992310,00€



Voting on Dual Edu logo - proposals

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THANK YOU FOR YOUR ATTENTION!



Parole: ON THE ROAD TO SUCCESS, THERE ARE NO SHORTCUTS