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Project: Development and Improvement of Automotive and Urban Engineering Studies in Serbia

Acronym	Application year	Grant	Reference number	Duration	Scope	Project status
DIAUSS	2011		JP 516729-2011	3 years	National	finalized
Eligibility period start	Eligibility period end	Extended until	Website		Facebook	
October 15, 2011	October 14, 2014		http://www.diauss.kg.ac.rs/ (http://www.diauss.kg.ac.rs/)			

Project summary

The general objective of the project is to develop and establish new high-quality interdisciplinary curriculums for the support of the automotive industry in Serbia (as the largest exporter in the country) and urban area development (to contribute to the quality of public services as well as the quality of life in urban settlements). Its objective is to increase the quality and potential of the labour force as well as to increase the employability of university graduates.

The specific objectives are to develop and implement interdisciplinary bachelor and master curricula both in automotive engineering and urban engineering at Serbian universities. These studies should be adjusted to the Bologna process requirements and be aimed at achieving international transparency and academic and professional recognition.

These objectives should be achieved through the engagement of four state universities of Serbia in cooperation with prominent non-academic partners and 4 EU universities with huge experience in urban and automotive engineering. The principal outcomes are the definition of structure and content of automotive engineering and urban engineering bachelor and master curricula and courses with advanced and up-to-date contents, modern and student-focused teaching methodologies for the study programs as well as the implementation (accreditation and teaching) of the programs.

The project will provide a framework for upgrading human and infrastructural potential necessary to achieve the objectives through teacher training, acquisition and the development of university text-books and the acquisition of educational equipment, cooperation between universities as well as cooperation with non-academic partners and the transfer of knowledge and experience. Beside, the project is also oriented to the training of high-school teachers in automotive and urban engineering and development of lifelong learning (LLL) trainings for automotive industry and public service companies.

Objectives

- Establishment of BSc and MSc studies in automotive engineering at UKG according to local market needs
- Restructuring and improvement of MSc studies in automotive engineering at UNI and UNS according to local market needs
- Establishment of joint BSc and MSc studies in urban engineering by UNI and UKG
- Restructuring and improvement of MSc studies in urban engineering at SUNP and UNS
- Establishment of connection with high schools, automotive industry and public service companies

Programme

Programme

TEMPUS PROGRAMME

Subprogramme

Joint Project-Curriculum Reform

Subject areas

- Interdisciplinary Studies

Partners

▼ University of Kragujevac, SRB Project coordinator
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► University of Novi Sad, SRB
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► **State University of Novi Pazar, SRB**

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► **University of Nis, SRB**

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► **Regional Chamber of Commerce Kragujevac, SRB**

Predrag Lucic ([Contact person](#)) (/en/persons/1757)

► **Secondary school "Djura Jaksic", SRB**

Nebojsa Pavlovic ([Contact person](#)) (/en/persons/1759)

► **Polytechnic school Kragujevac, SRB**

Sinisa Kojic ([Contact person](#)) (/en/persons/1760)

► **Serbian Chamber of Engineers, SRB**

Dragoslav Sumarac ([Contact person](#)) (/en/persons/1755)

► **Regional Automotive Cluster of Central Serbia, SRB**

Dragan Begovic ([Contact person](#)) (/en/persons/1758)

► **Technical school, Trstenik, SRB**

Velibor Jovkovic ([Contact person](#)) (/en/persons/1762)

► **Technical school "Jovan Zujovic", Gornji Milanovac, SRB**

Dragan Petrovic ([Contact person](#)) (/en/persons/1761)

► **Fiat automotive Serbia, SRB**

Nebojsa Rako ([Contact person](#)) (/en/persons/1756)

► **Standing Conference of Towns and Municipalities, SRB**

Ivan Milivojevic ([Contact person](#)) (/en/persons/1754)

► **Vilnius Gediminas Technical University, LTU**

Marija Burinskiene ([Contact person](#)) (/en/persons/2110)

► Technical University of Kosice, SVK
Miroslav Badida Contact person (/en/persons/2111)
► Polytechnic University of Turin, ITA
Giovanni Belingardi Contact person (/en/persons/2109)
► University of Bologna, ITA
Cristiano Fragassa Contact person (/en/persons/2112)

Equipment

► University of Kragujevac
► University of Novi Sad
► State University of Novi Pazar
► University of Nis

Activities

DEV1 Defining structure and content of automotive engineering and urban engineering study programs

- 1.1 Defining learning outcomes of automotive engineering and urban engineering study programs in cooperation with stakeholders
- 1.2 Developing structure of automotive engineering and urban engineering study programs
- 1.3 Development of syllabi of automotive engineering and urban engineering study programs
- 1.4 Peer review of proposed study programs

DEV2 Enhancing of quality of infrastructure of automotive engineering and urban engineering study programs

- 2.1 Improvement of university staff skills
- 2.2 Seminars for teachers
- 2.3 Modernisation of teaching materials
- 2.4 Purchasing and installation of equipment

DEV3 Implementing automotive engineering and urban engineering study programs

- 3.1 Preparation of partner institutions for accreditation of study programs
- 3.2 Accreditation of BSc and MSc study programs
- 3.3 Teaching new study programs
- 3.4 Organisation of student internship for developed study programs

DEV4 Enhancing the quality of cooperation with stakeholders

4.1 Improvement of capacities of high schools

4.2 Development of LLL training programs for public municipality services

4.3 Development of LLL training programs for automotive industry

DISS Dissemination

1.1 Organization of internal universities/faculties/schools meetings

1.2 Organization of meetings with non-academic representatives

1.3 Promotional activities

1.4 Web site development

EXP Exploitation of results

1.1 Enabling institutional sustainability

1.2 Enabling financial sustainability

QPLN Quality control and monitoring

1.1 Coordination of project quality control and monitoring activities

MNGT Project management

1.1 Organization of PCB meetings

1.2 Organization of NPCT meetings

1.3 Day – to –day coordination activities

1.4 Organizational and financial project management activities

Deliverables

Title	Type	To
1.1.1. Learning outcomes of automotive engineering SPs	Report	December 31, 2011
1.1.2. Learning outcomes of urban engineering studies	Report	December 31, 2011
1.2.1. Structure of automotive engineering study programs	Report	February 28, 2012
1.2.2. Structure of urban engineering study programs	Report	February 28, 2012
1.3.1. Syllabi of automotive engineering study programs	Report	June 30, 2012
1.3.2. Syllabi of urban engineering study programs	Report	June 30, 2012

1.4.1. Review of proposed study programs	Report	September 30, 2012
2.1. Improved university staff skills	Other products	December 31, 2012
2.2. Seminars for teachers	Events: Conferences and Seminars	April 30, 2013
2.3. Teaching materials	Teaching material	April 30, 2013
2.4. Equipment	Learning resources	January 31, 2013
3.1. Preparation of institutions for accreditation	Other products	November 30, 2012
3.2. Accreditation of BSc and MSc study programs	Report	April 30, 2013
3.3. Teaching new study programs	Other products	September 30, 2014
3.4. Student internship	Training	September 30, 2014
4.1. Improved high schools capacities	Events: Conferences and Seminars	September 30, 2014
4.2. LLL training program for municipal public services	Training	September 30, 2014
4.3. LLL training program for automotive industry	Training	September 30, 2014
1.1. Internal universities/faculties/schools meetings	Events: Conferences and Seminars	February 28, 2014
1.2. Meetings with non-academic representatives	Events: Conferences and Seminars	May 30, 2014
1.3. Promotional material	Other products	February 28, 2013
1.4. Web site	Other products	September 30, 2014
1.1. Institutional sustainability	Other products	September

		30, 2014
1.2. Financial sustainability	Other products	September 30, 2014
1.1. Quality control reports	Report	September 30, 2014
1.1. Project Coordination Board (PCB) meetings	Other products	October 31, 2013
1.2. Project Coordination Board (PCB) meetings	Other products	July 31, 2014
1.3. Day-to-day coordination	Other products	September 30, 2014
1.4. Operational & financial project management	Other products	September 30, 2014
BSc in automotive engineering	New study programme - BA level	
MSc in automotive engineering	New study programme - MA level	
BSc in urban engineering	New study programme - BA level	
Master module Automotive engineering at the study programme Mechanisation and constructive engineering	Modernized study programme/ courses - MA level	
Master programme Planning and management of regional development	Modernized study programme/ courses - MA level	
Bachelor module Automotive engineering at the study program Electrical Engineering and Computer Science	Modernized study programme/courses - BA level	
Master module Automotive engineering at the Control Systems master study programme	Modernized study programme/ courses - MA level	
Course on Earth Architecture	Training courses/LLL courses	
	Training courses/LLL	

Course on Renewable Energy Sources	courses
Statistical process control	Training courses/LLL courses
Mechanical design in the area	Training courses/LLL courses
Mechanical technology of materials	Training courses/LLL courses
Metrology	Training courses/LLL courses
Electrical/Electronic/Diagnostic PLC	Training courses/LLL courses
Hydraulic and pneumatic components, subgroups and groups	Training courses/LLL courses
Robotics and automation principles	Training courses/LLL courses

Resources

Resource title	Resource type	Keywords	Authors
► Learning outcomes of automotive and urban engineering	Curriculum	Automotive engineering, urban engineering, regional development, planning, management, learning objectives	
► Structure of automotive engineering study programs	Curriculum	Study programme, automotive engineering, automotive industry, harmonization, Bachelor studies, Master studies	
► Structure of urban engineering study programs	Curriculum	Study programme, urban engineering, local municipalities, public companies, harmonization	

► Syllabi of automotive engineering study programs	Curriculum	Syllabus, automotive engineering, Bachelor programme, Master programme
► Syllabi of urban engineering study programs	Curriculum	Study programme, urban engineering, Bachelor programme, Master programme
► LLL training program for municipal public services	Teaching / Training materials	Urban planning and development, lifelong learning, courses, urban engineering, municipal services
► LLL training program for automotive industry	Teaching / Training materials	Lifelong learning, automotive industry, human resources, training, courses
► DIAUSS promotional material	Promotion material	Study programme, Bachelor studies, Master studies, automotive engineering, urban engineering
► University of Kragujevac Guide for Students	Manual / Handbook / Guide	Automotive engineering, urban engineering, Bachelor studies, Master studies, compulsory subjects, elective subjects, automobilnosko inženjerstvo, urbano inženjerstvo, osnovne akademske studije, master akademske studije, obavezni predmeti, izborni predmeti