



NASTAVNI PROGRAM IZ OBLASTI ENERGETSKE EFIKASNOSTI I OBNOVLJIVIH IZVORA ENERGIJE NA DUNP-u U SVETLU SAVREMENIH ZAHTEVA VISOKOG OBRAZOVANJA

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- **ZNANJE I OBRAZOVANJE U SAVREMENIM OKOLNOSTIMA**
- **KONCEPT EKONOMIJE ZNANJA, ZAHTEVA MODERNO OBRAZOVANJE I NEPREKIDNO USAVRŠAVANJE**
- **POTRBNA REALIZACIJA POSEBNIH PROJEKATA ZA OSPOSOBLJAVANJE RADNE SNAGE I NJENO PRILAGOĐAVANJE POTREBAMA TRŽIŠTA RADA, NAROČITO REGIONA SA NAJVEĆOM NEZAPOSLENOŠĆU, POPUT RAŠKE OBLASTI**



- **ENERGETSKA EFIKASNOST I OBRAZOVANJE**
- **JEDAN OD PRIORITETA ZACRTAN U STRATEGIJI RAZVOJA ENERGETIKE SRBIJE DO 2015. GODINE**
- **RAZVIJENE EVROPSKE ZEMLJE ENERGETSKOM EFIKASNOŠĆU BAVE SE OD 70-TIH GODINA PROŠLOG VEKA I PERIODA PRVE NAFTNE KRIZE**
- **SRBIJA U OVOM TRENUTKU ČINI NAPORE DA NADOKNADI IZGUBLJENO U DVODECENIJSKOM TURBULENTNOM PERIODU**



ZAPOČETI PROGRAMI NA DRŽAVNOM UNIVERZITETU U NOVOM PAZARU U SARDNJI SA WUS-om I TEMPUS-om

- 1 year master programme; completed
- WUS (Austria) support (65700 € with 25000 € co-financing, 50000 € for equipment and 3500 € for new books)
- Part time study – some sort of LLL
- Condensed courses (1 week with 30 lectures and exam)



InfReC
InfraRed Camera

- **Structure of enrolled students:**
**10 Civil eng. + 10 Architects + 4 Mech. eng. +
3 Electrical eng. + 1 BSc in Organization Sciences**

- **Structure of teaching staff:**
**1 professor from UL, 1 professor from UNIZA,
2 professors from UNS and 6 professors from SUNP**

- **6 new notebooks published**

- **Laboratory for material testing upgraded**



MASTER PROGRAM: ENERGY EFFICIENCY IN BUILDINGS (3)



Course	Sem.	ECTS
Selected topics in applied mathematics	1	5
Scientific research methodology	1	4
English language 2	1	4
Selected topics in thermo techniques	1	5
Certification of building energy efficiency	1	6
Energy efficiency in purpose of environmental protection	1	6
Renewable and alternative energy sources	2	6
Master thesis (problem definition, research, collection of data, writing and defence of thesis)	2	24

PROJECT ENERESE (1)

- Project ENERESE is 3 years TEMPUS project
- Funded by EACEA with 507073,13 € and co-financed with 56856,00 €
- The project will be realized by 14 Partners:

4 Universities from EU: University of Zilina, University of Ljubljana, Aristotle University of Thessaloniki and Technische Universität Bergakademie Freiberg)

6 Universities from WB Countries: State University of Novi Pazar as a coordinator, University of Belgrade, University of Nis, University of Sarajevo, University of Banja Luka and University of Montenegro and

4 non-academic partners

PROJECT ENERESE (2)



- The proposed two years (120 ECTS) Master study program has to satisfy the real needs for High Educated (HE) specialists in the field of RUE
- The proposed project has to educate, train and deliver HE specialists and prepare graduates for labor market
- Renewable energy labor market is expected to expand
- Great interest shown for the realized one year LLL master course at SUNP "Energy Efficiency in buildings" and similar interest is expected for ENERESE
- Possibilities for better employment

Course	Sem.	ECTS
1. Energy and exergy sources	1	6
2. EE concepts and Management in EU and national legislation's prospective	1	6
3. Energy efficiency in buildings	1	6
4. Digital systems of automatic control	1	6
5a. Energetic impacts on environment	1	6
5b. Energy efficiency in transport		
5c. Urban and architectural aspects of EE		
6.EE and environmentally friendly materials	2	6
7. HVAC	2	6
8. Energy efficiency in municipal services	2	6

Course	Sem.	ECTS
9. Use of renewable energy sources	2	6
10a. Use of solar and wind energy	2	6
10b. Geothermal and biomass energy	2	6
11. Energy monitoring and system control	3	6
12. Economical and environmental aspects of EE and RES – cost effectiveness and CO ₂ emission	3	6
13a. Professional practice – EE in constructions 13b. Professional practice – EE in mech. systems	4	30
14a. Master thesis – EE in construction sector 14b. Master thesis – EE in mechanical systems	4	30

HVALA NA PAŽNJI!