University of Kragujevac in NETCHEM project

Niš, 2017
University of Kragujevac

- 1960. Faculties of Mechanical Engineering and Economy
- 1970. Faculty of law and Faculty of Science
- 1976. University established
- Today University has:
  - 11 faculties and
  - two institutes
in Kragujevac, Čačak, Kraljevo, Užice and Jagodina
Faculty of Science
Four Departments:

Department of Chemistry

Department of Mathematics and Informatics

Department of Biology and Ecology

Department of Physics
Faculty of Science

- Match communications in Mathematical and in computer chemistry

  Impact factor of MATCH for year 2015 3.858
  Impact factor of MATCH for year 2014 1.466
  Impact factor of MATCH for year 2013 1.829

- Editions of international monographs *Mathematical chemistry Monographs*

- Two national scientific journals, *Kragujevac Journal of Mathematics* and *Kragujevac Journal of science*
Staff Student Ratio

Academics (114)

1200 STUDENTS

Assistants (24)

Administrative staff (10)
Institute of Mathematics and Informatics

Since 1976.

Kragujevac Journal of Mathematics

Math workshop

Two hundred students from third grade grammar school and from fourth grade of high school
Institute of Mathematics and Informatics

Specially developed:

Graph theory
Numerical analysis
Mathematical logic
Differential geometry
Information Systems
# Institute of Mathematics and Informatics

<table>
<thead>
<tr>
<th>Study program</th>
<th>Title</th>
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<tbody>
<tr>
<td>Undergraduate studies in mathematics</td>
<td>Graduate mathematician - theoretical mathematics</td>
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<tr>
<td>Graduates in mathematics</td>
<td>Graduate mathematician - Professor of Mathematics</td>
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<tr>
<td>Master academic studies</td>
<td>Master mathematician - theoretical mathematics</td>
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<tr>
<td>Master mathematician - Professor of Mathematics</td>
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<tr>
<td>Doctoral studies</td>
<td>Doctor of Science - Mathematical Sciences</td>
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Institute of Chemistry

NMR

GCMS

HPLC

IR

UV/Vis
Institute of Chemistry

Basic studies:
Graduate Chemist for research and development
Graduate Chemistry - Teacher
Graduate Chemist in Environmental Protection

Master programmes:
Master - research and development
Master - environmental protection
Master - professor of chemistry

PhD studies:
Chemical Science - Organic Chemistry
Chemical Science - Inorganic Chemistry
Chemical Science - Analytical Chemistry
Chemical Science - Biochemistry
Modernisation of Post-Graduate Studies in Chemistry and Chemistry Related Programmes in Serbia – MCHEM

TEMPUS project 2010

Modernization of equipment
Modernization of chemistry studies
E-learning
Students mobilization

One of the UNIKG outputs: the production of benchmark standards for Chemistry and Chemistry related subjects

Previous role in TEMPUS project
Previous role in TEMPUS project

Development and harmonisation of curriculum outputs on undergraduate and master studies level at the Chemistry Department (Environmental Protection) with best European practice

Introduction of “Green Chemistry" at the Department of Biology and Ecology
Modernization of equipment
Role of UNIKG in this Project

1. PREPARATION
   Distribute questionnaires, gather the information and feedback information to P7-UNS (Serbia)

2. DEVELOPMENT
   Design and development of staff training programme; conceptual design of SQL database; identifying IT infrastructure updating needs for UNIKG
Role of UNIKG in this Project

3. DEVELOPMENT
Upgrading and loading of data to SQL database; involvement in Forum activities; including out-Consortium stakeholders; hardware and software establishment, ICT administration

4. DEVELOPMENT
Modernize all courses they offer in their curriculum that covers the field of instrumental analytical chemistry, environmental protection and food quality control (at least 4 MSc courses and 2 PhD courses) and create a minimum of 2 CPD courses; prepare documentation for approval/accreditation event; undertake recruitment and registration of students, researchers, professionals
Role of UNIKG in this Project

5. QUALITY PLAN

Task leader for 5.1; host for one monitoring visit (4th month of 3rd year); prepare regular progress reports; make reports available for peer review; participate in Internal Quality Assurance Team

6. MANAGEMENT

Host for two monitoring meetings; participate in the management of Project; participate in the Partner Country Team; host for 6th Partner Country Team meeting and 1st Steering Committee; provide information of administrative, budget and operational issues regarding own institution, for overall Interim and Final report
# Leading UNIKG Staff in this Project

<table>
<thead>
<tr>
<th>Name</th>
<th>Position and Department Details</th>
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</thead>
<tbody>
<tr>
<td>Zoran Matović</td>
<td>Professor at Department of Chemistry, Faculty of Science, University of Kragujevac, Kragujevac, Serbia.</td>
</tr>
<tr>
<td>Srećko Trifunović</td>
<td>Dean, Professor at Department of Chemistry, Faculty of Science, University of Kragujevac, Kragujevac, Serbia.</td>
</tr>
<tr>
<td>Miloš Ivanović</td>
<td>Professor at Department of Mathematics and Informatics, Faculty of Science, University of Kragujevac, Kragujevac, Serbia.</td>
</tr>
<tr>
<td>Zorka Stanić</td>
<td>Professor at Department of Chemistry, Faculty of Science, University of Kragujevac, Kragujevac, Serbia.</td>
</tr>
<tr>
<td>Marina Ćendić</td>
<td>Research Associate at Department of Chemistry, Faculty of Science, University of Kragujevac, Kragujevac, Serbia.</td>
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Conclusion

UNIKG will give create theoretical & practical lectures by OER/WARIAL in the field of EFSC providing also target audience for training in usage of OER and WARIAL implementation and target audience for courses made by OER/WARIAL

UNIKG will modernize at least 4MSc and 2PhD courses and create a minimum of 2CPD courses

UNIKG will be the task leader for 5.1 activity and will be the host for monitoring visits

Design, printing and publishing of promo material will also be the task that will assisted by UNIKG
UNIKG VISION

Environmental Protection

Food quality control

laboratory
Thank you for your attention!