TEMPUS GE-UZ project

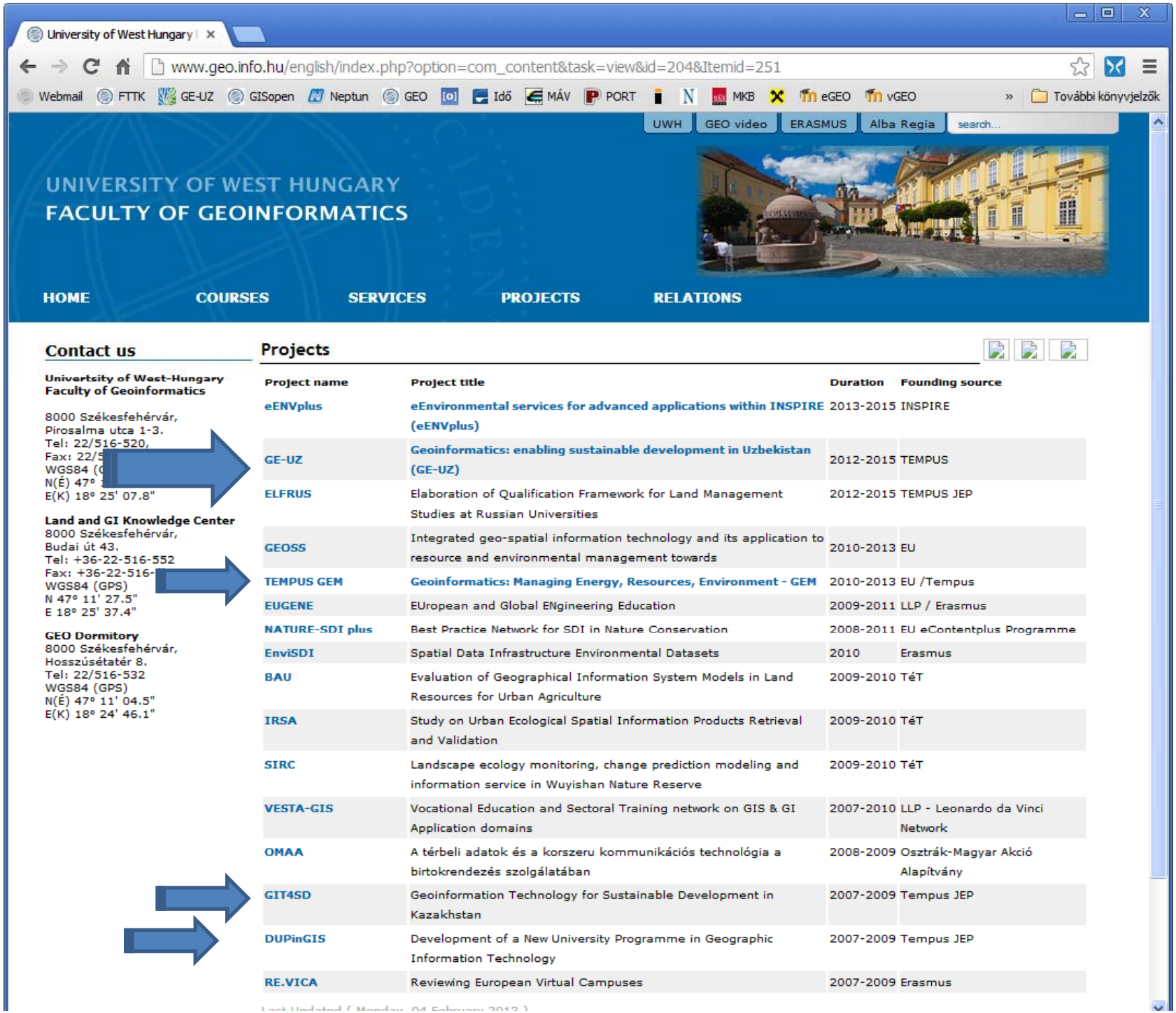
Geoinformatics: enabling sustainable development in Uzbekistan

530808-TEMPUS-1-2012-1-HU-TEMPUS-JPCR Tempus IV

Bela Markus

project coordinator

University of West Hungary, Faculty of Geoinformatics


University of West Hungary
www.geo.info.hu/english/index.php?option=com_content&task=view&id=204&Itemid=251
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Univertsity of West-Hungary
Faculty of Geoinformatics
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Land and GI Knowledge Center
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Budai út 43.
Tel: +36-22-516-552
WGS84 (GPS)
N 47° 11' 27.5"
E 18° 25' 37.4"
GEO Dormitory
8000 Székesfehérvár,
Hosszúsétatér 8.
Tel: 22/516-532
WGS84 (GPS)
N(É) 47° 11' 04.5"
E(K) 18° 24' 46.1"
Projects
Project name
Project title
Duration
Founding source
eENVplus
eEnvironmental services for advanced applications within INSPIRE (eENVplus)
2013-2015
INSPIRE
GE-UZ
Geoinformatics: enabling sustainable development in Uzbekistan (GE-UZ)
2012-2015
TEMPUS
ELFRUS
Elaboration of Qualification Framework for Land Management Studies at Russian Universities
2012-2015
TEMPUS JEP
GEOSS
Integrated geo-spatial information technology and its application to resource and environmental management towards
2010-2013
EU
TEMPUS GEM
Geoinformatics: Managing Energy, Resources, Environment - GEM
2010-2013
EU /Tempus
EUGENE
EUropean and Global ENgineering Education
2009-2011
LLP / Erasmus
NATURE-SDI plus
Best Practice Network for SDI in Nature Conservation
2008-2011
EU eContentplus Programme
EnviSDI
Spatial Data Infrastructure Environmental Datasets
2010
Erasmus
BAU
Evaluation of Geographical Information System Models in Land Resources for Urban Agriculture
2009-2010
TéT
IRSA
Study on Urban Ecological Spatial Information Products Retrieval and Validation
2009-2010
TéT
SIRC
Landscape ecology monitoring, change prediction modeling and information service in Wuyishan Nature Reserve
2009-2010
TéT
VESTA-GIS
Vocational Education and Sectoral Training network on GIS & GI Application domains
2007-2010
LLP - Leonardo da Vinci Network
OMAA
A térbeli adatok és a korszeru kommunikációs technológia a birtokrendezés szolgálatában
2008-2009
Osztrák-Magyar Akció Alapítvány
GIT4SD
Geoinformation Technology for Sustainable Development in Kazakhstan
2007-2009
Tempus JEP
DUPinGIS
Development of a New University Programme in Geographic Information Technology
2007-2009
Tempus JEP
RE.VICA
Reviewing European Virtual Campuses
2007-2009
Erasmus

GEO

Aims

To ensure that UZ partner universities have the capacity to offer a Master programme in Geoinformatics that meet Bologna process and international academic quality.

Objectives

- Develop a successful MSc in Geoinformatics
- Ensure qualified staff for course delivery
- Build a sustainable educational network
- Support UZ in sustainable development

Develop a successful MSc in Geoinformatics

WP 2. Curriculum development (DEV)

- **2.1 As-is survey, needs analysis**
- **2.2 Bologna conform curriculum**
- **2.3 Accredited and licensed courses**

WP 3. Development of learning materials (DEV)

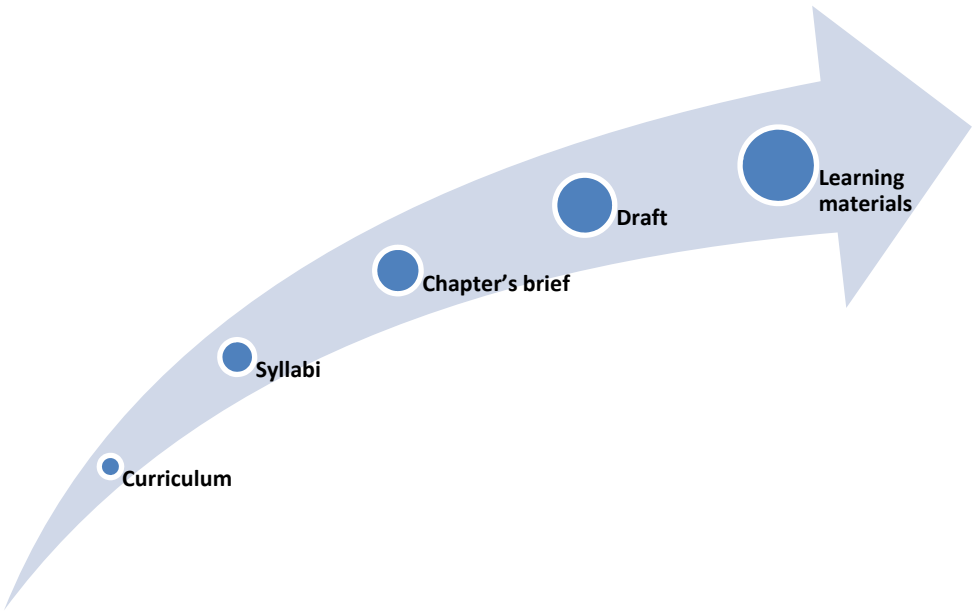
- **3.1 Guidelines**
- **3.2 Course syllabi in English**
- **3.3 8 modules in Uzbek**
- **3.4 Review**
- **3.5 Final draft**
- **3.6 Feedback from the pilot course**
- **3.7 8 core modules in Uzbek and Russian**

WP 5. Development of learning environment (DEV)

- **5.1 Learning Management System (LMS)**
- **5.2 Installation and operation of 4 computer labs**
- **5.3 Use of photogrammetric workstation, laserscanner**

WP 7. Quality Management (QPLN)

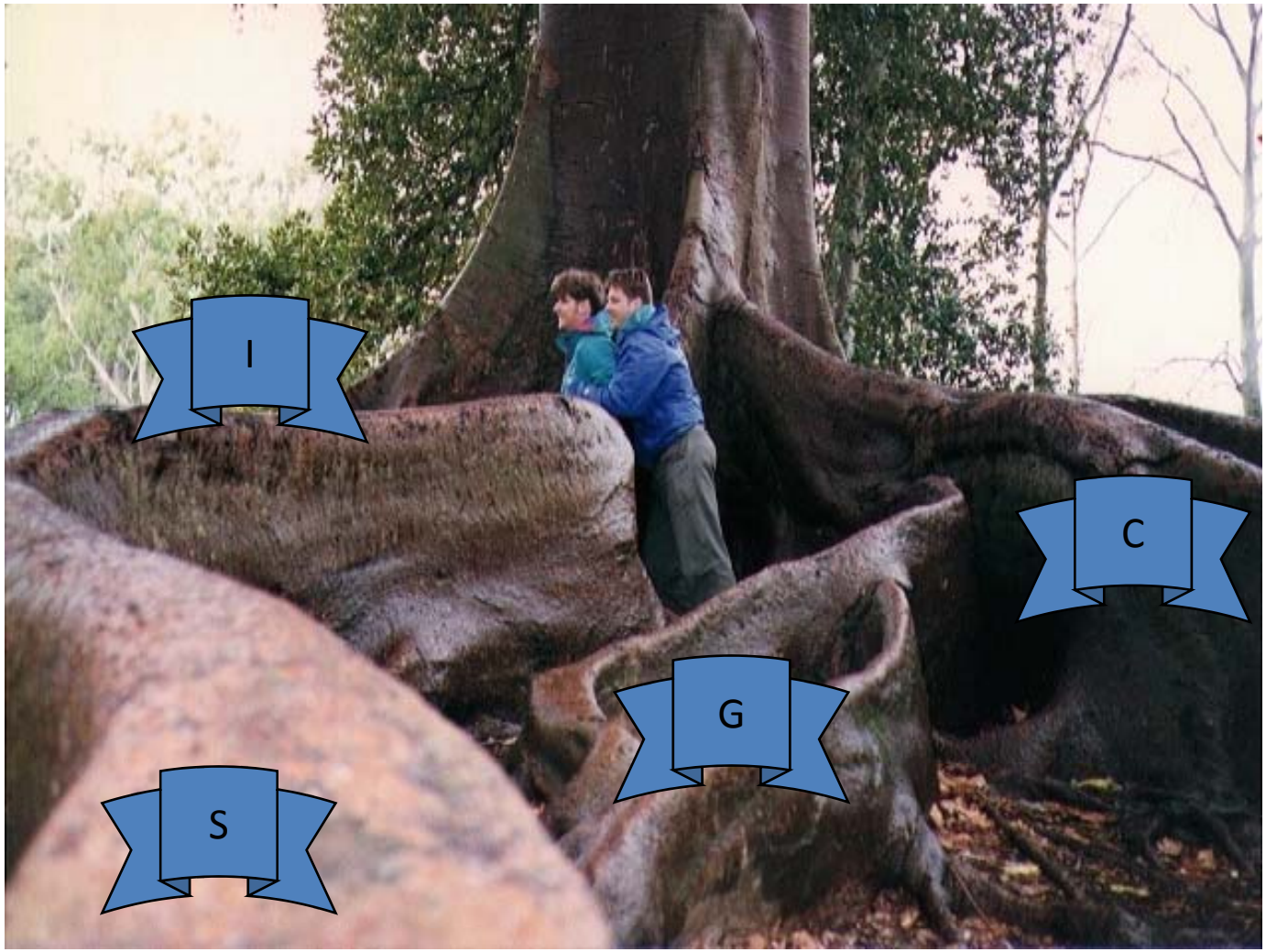
- **7.1 Quality Manual assuring project quality**
- **7.2 Guidelines for Quality Assurance of learning material development**
- **7.3 Guidelines for Quality Assurance of course delivery**
- **7.4 External Evaluation Report (EER)**



GEOUZ

Tempus

Geoinformatics



GE-UZ Core modules

- Introduction to Geoinformation Systems and Science
- Spatial Data Models
- Data Acquisition and Data Integration
- Geodatabases and Distributed Architectures
- Cartography and Geovisualization
- Spatial Analysis
- Remote Sensing and Photogrammetry
- Project Management and Organisation
- Cadastre and Land Information Systems

Ensure qualified staff for course delivery

WP 4. Train-the-teachers (DEV)

- **4.1 32 trained teachers prepared for course development (5 days)**
- **4.2 16 trained teachers in data acquisition and GeoDBMS (4 weeks)**
- **4.3 16 trained teachers in data analysis (4 weeks)**
- **4.4 16 trained staff members in educational quality assurance (5 days)**

WP 8. Pilot course implementation

- **8.1 Business plan (BP)**
- **8.2 Potential students informed**
- **8.3 Motivated students admitted into the MSc course**
- **8.4 16 trained teachers prepared for use of new technologies (2 weeks)**
- **8.5 24 students give feedback on the course materials and course delivery**

Build a sustainable educational network

WP 6. Educational network development (DEV)

- **6.1 National network based on cooperation agreements**
- **6.2 International network based on academic agreements**

WP 9. Dissemination and awareness (DISS)

- **9.1Brochures, posters, presentations and other PR materials**
- **9.2 Project website**
- **9.3 GE-UZ visibility in social and professional media**
- **9.4 4 newsletters (annual)**
- **9.5 80 participants from CA countries will be informed on the project results**

Support UZ in sustainable development

- **Spatially enabled society**
  - **Spatial enablement, that is, the ability to add location to almost all existing information, unlocks the wealth of existing knowledge about social, economic and environmental matters, play a vital role in understanding and addressing the many challenges that we face in an increasingly complex and interconnected world.**
  - **The main issue societies have to focus on is probably less about spatial data, but much more about managing all information spatially". This is a new paradigm that still has to be explored, deliberated and understood in the context of a spatially enabled society.**

Daniel Steudler and Abbas Rajabifard, 2012, http://www.fig.net/pub/figpub/pub58/figpub58.pdf

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Support UZ in sustainable development

Structure

EACEA: Education, Audiovisual and Culture Executive Agency

Project partners

Coordinator

P1 University of West Hungary (UWH), Sopron, HU

Uzbekistan

P2 National University of Uzbekistan named after Mirzo Ulug'bek (NUU), Tashkent, UZ
P3 Karakalpak State University (KSU) Nukus, UZ
P4 Tashkent Architecture Building Institute (TABI) Tashkent, UZ
P5 Tashkent Institute of Irrigation and Melioration (TIIM) Tashkent, UZ
P6 Ministry of Higher and Secondary Specialized Education (MHSSE) Tashkent, UZ
P7 National Center of Geodesy and Cartography (NCGC) Tashkent, UZ
P8 State Unitary Enterprise "Geoinformkadastr" (Geoinformkadastr) Tashkent, UZ

EU

P9 Paris-Lodron Universität Salzburg (PLUS) Salzburg, AT
P10 Royal Institute of Technology (KTH) Stockholm, SE
P11 University of Greenwich (UoG) London, UK

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UWH Staff

Prof. Béla Márkus
GE-UZ project co-ordinator
mb@geo.info.hu

Dr. Andrea Pődör
GE-UZ project manager
pa@geo.info.hu

The project management is responsible for
- **maintaining communication,**
- **controlling project plans,**
- **supervising financial transactions,**
- **reporting to partners and to the Commission,**
- **ensuring the timely submission of deliverables.**

Ongoing communication and coordination is supported by using an intranet environment.

Attila Petrik
GE-UZ project technical assisstant
pea@geo.info.hu

Szilvia Taupert
GE-UZ project administrative assisstant
tsz@geo.info.hu

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Outcomes

1. Project management (MNGT)
   - 1.1 Well managed communication and reporting
   - 1.2 Coordinated use of project resources
   - 1.3 Careful cash-flow and budget handling
2. Curriculum development (DEV)
   - 2.1 As-is survey, needs analysis
   - 2.2 Bologna conforming curriculum
   - 2.3 Accredited and licensed courses
3. Development of learning materials (DEV)
   - 3.1 Guidelines
   - 3.2 Course syllabi in English
   - 3.3 8 modules in Uzbek
   - 3.4 Review
   - 3.5 Final draft
   - 3.6 Feedback from the pilot course
   - 3.7 8 core modules in Uzbek and Russian
4. Train-the-teachers (DEV)
   - 4.1 32 trained teachers prepared for course development
   - 4.2 12 trained teachers in data acquisition and GeoDBMS
   - 4.3 12 trained teachers in data analysis
   - 4.4 12 trained staff members in educational quality assurance
5. Development of learning environment (DEV)
   - 5.1 Learning Management System (LMS)
   - 5.2 Installation and operation of 4 computer labs
   - 5.3 Use of photogrammetric workstation, laserscanner
6. Educational network development (DEV)
   - 6.1 National network based on agreements
   - 6.2 International network based on agreements
7. Quality Management (QPLN)
   - 7.1 Quality Manual assuring project quality
   - 7.2 Guidelines for Quality Assurance of learning material development
   - 7.3 Guidelines for Quality Assurance of course delivery
   - 7.4 External Evaluation Report (EER)

8 Pilot course implementation
   - 8.1 Business plan (BP)
   - 8.2 Potential students informed
   - 8.3 Motivated students admitted into the MSc course
   - 8.4 16 trained teachers prepared for use of new technologies
   - 8.5 24 students give feedback on the course materials and course delivery
9. Dissemination and awareness (DISS)
   - 9.1Brochures, posters, presentations and other PR materials
   - 9.2 Project website
   - 9.3 GE-UZ visibility in social and professional media
   - 9.4 4 newsletters (annual)
   - 9.5 80 participants from CA countries will be informed on the project results

Sustainable MSc courses

Quality management system

8 textbooks in Uzbek and Russian

Learning Management System

32 trained teachers

4 computer labs

Equipments

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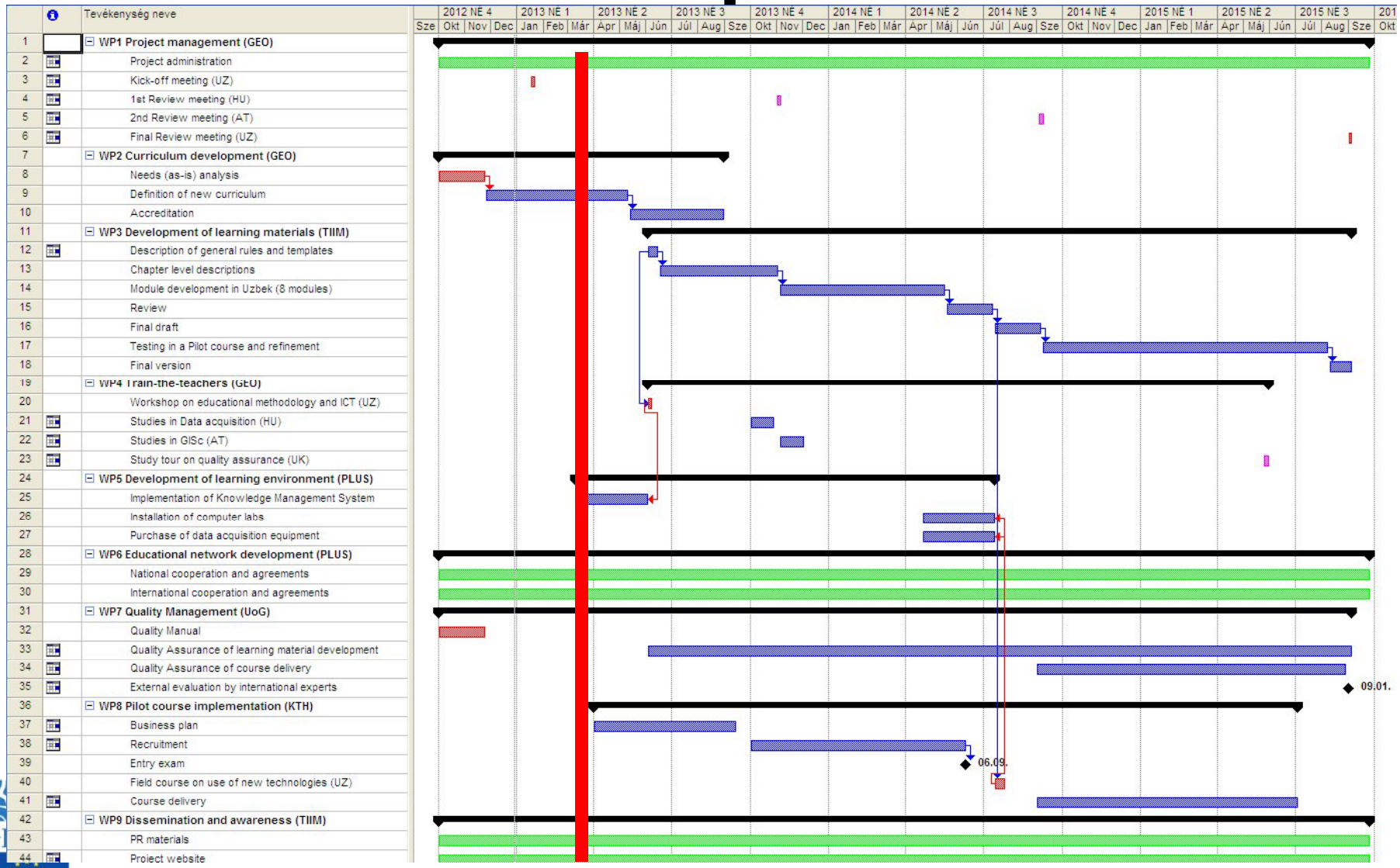
Workplan



	Tevékenység neve
1	WP1 Project management (GEO)
2	Project administration
3	Kick-off meeting (UZ)
4	1st Review meeting (HU)
5	2nd Review meeting (AT)
6	Final Review meeting (UZ)
7	WP2 Curriculum development (GEO)
8	Needs (as-is) analysis
9	Definition of new curriculum
10	Accreditation
11	WP3 Development of learning materials (TIIM)
12	Description of general rules and templates
13	Chapter level descriptions
14	Module development in Uzbek (8 modules)
15	Review
16	Final draft
17	Testing in a Pilot course and refinement
18	Final version
19	WP4 Train-the-teachers (GEO)
20	Workshop on educational methodology and ICT (UZ)
21	Studies in Data acquisition (HU)
22	Studies in GISc (AT)
23	Study tour on quality assurance (UK)
24	WP5 Development of learning environment (PLUS)
25	Implementation of Knowledge Management System
26	Installation of computer labs
27	Purchase of data acquisition equipment
28	WP6 Educational network development (PLUS)
29	National cooperation and agreements
30	International cooperation and agreements
31	WP7 Quality Management (UoG)
32	Quality Manual
33	Quality Assurance of learning material development
34	Quality Assurance of course delivery
35	External evaluation by international experts
36	WP8 Pilot course implementation (KTH)
37	Business plan
38	Recruitment
39	Entry exam
40	Field course on use of new technologies (UZ)
41	Course delivery
42	WP9 Dissemination and awareness (TIIM)
43	PR materials
44	Project website

Done

- Needs analysis report
- Quality Manual
- Project website (www.geuz.eu)
- Newsletter
- Poster

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GE-UZ: Geoinformatics: enabling sustainable development in Uzbekistan

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GEOUZ

Search

Background
Aims, objectives
Partners
Outcomes
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Who's Online

1 visitors online now

Visitors on the map

Blog news

ACA GIScience News

Introducing The National University of Uzbekistan

Published 05/03/2013

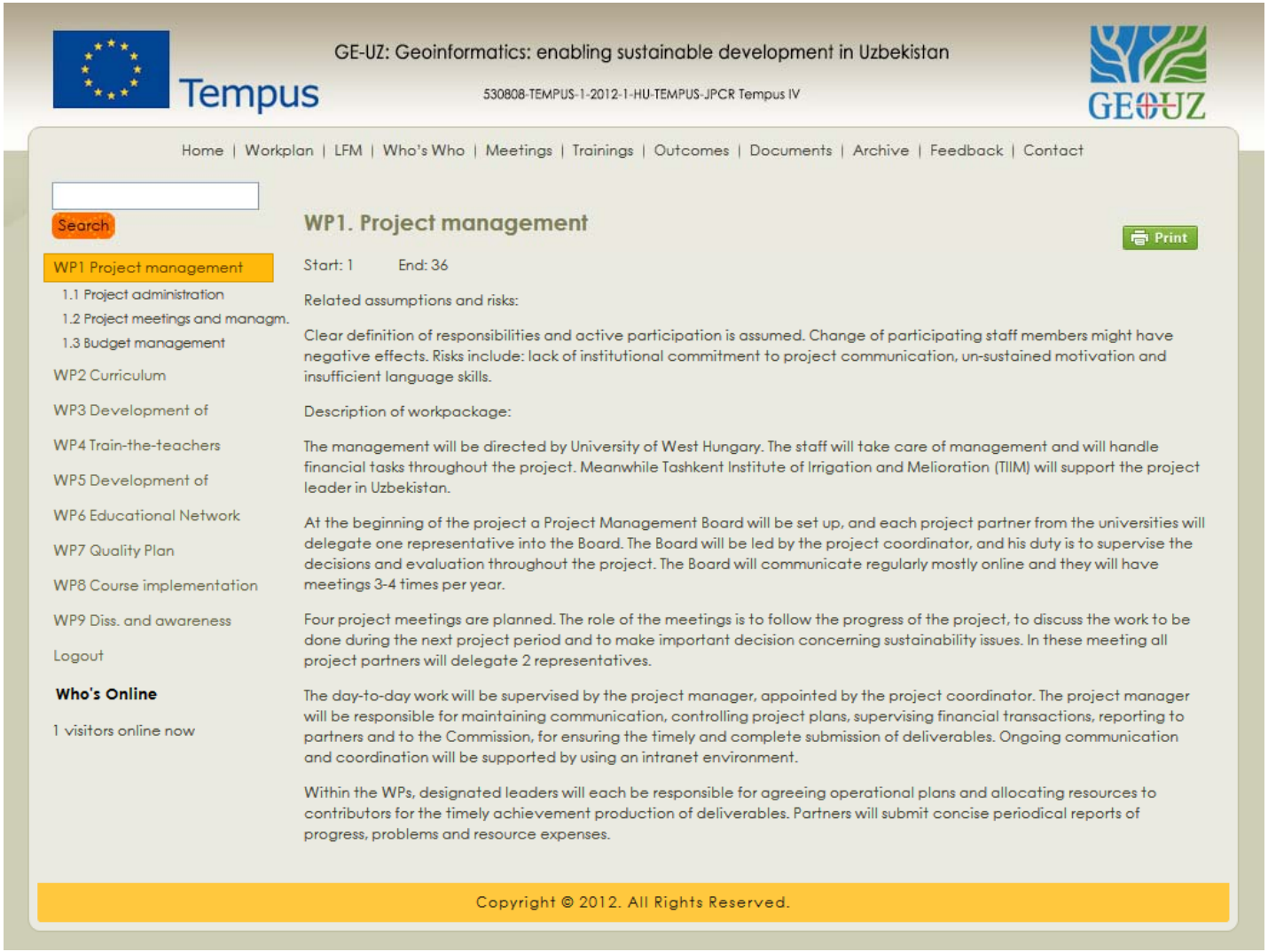
National University of Uzbekistan (NUU)

NUU began its function in 1918 as People's University. From 1920 university was named Turkistan State University, 1923 Central Asian State University, from 1960 to 2000 it was named as Tashkent State University. On 14 th of September in 1995 according to the decree of Council of Ministries of Uzbekistan university was named after Mirzo Ulugbek.

NUU was first founded not only in Uzbekistan but in whole territory. Scientists and teachers of university greatly contributed to the development of science, education and scientific researches and educational system. Considering above mentioned contributions on 28 of January in 2000 university was claimed as National University of Uzbekistan according to the decree of the President of the Republic of Uzbekistan.

Nowadays there are 13 faculties, 45 spheres of bachelor degree, more than 100 spheres of master`s degree. National

Intranet



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Workplan 2013

Kick-off meeting

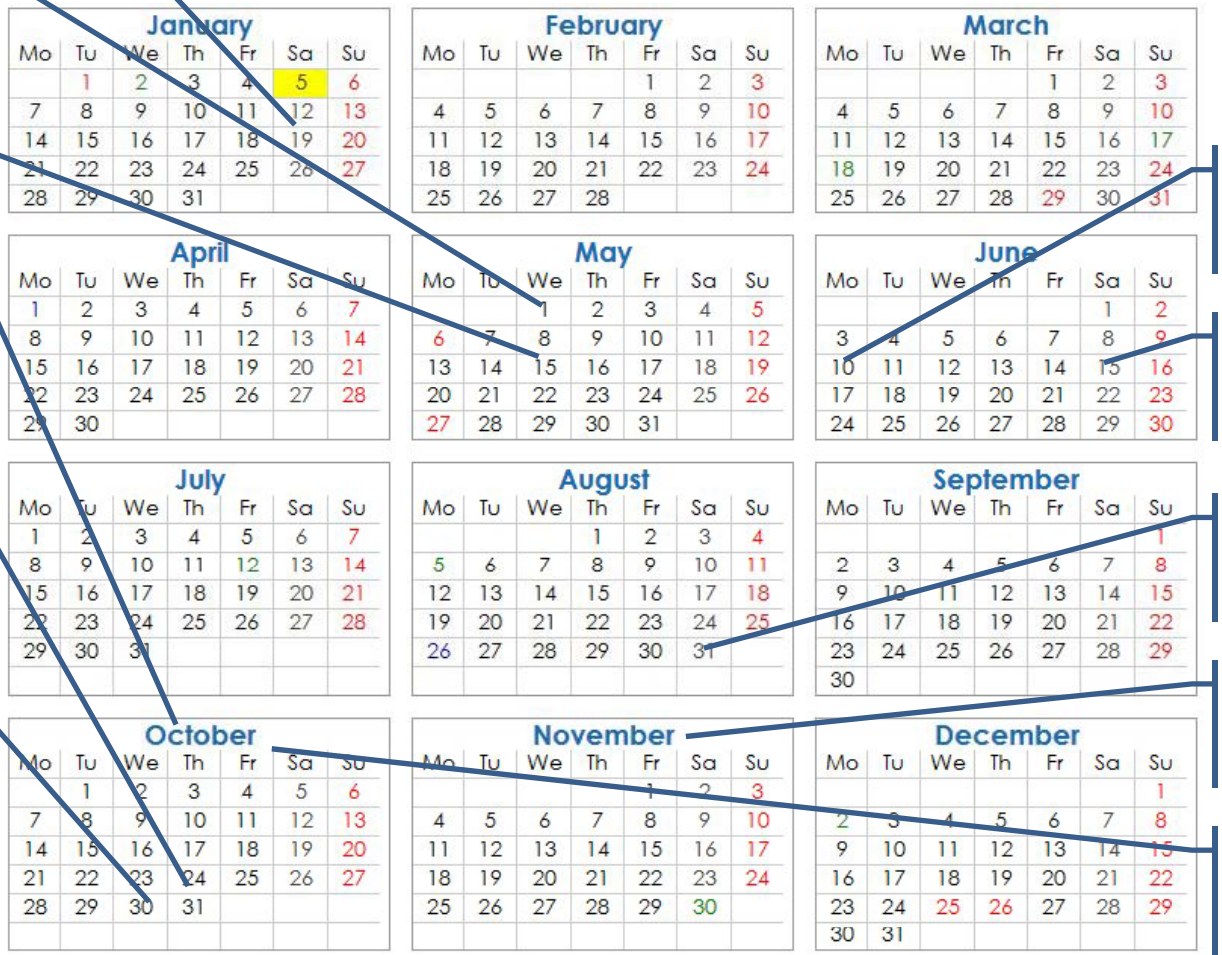
Learning Management System

Definition of new curriculum

Studies in Data Acquisition and GeoDatabases

Business plan

Chapter level description in English



Workshop on educational methods and ICT

Guidelines

Accreditation

Studies in Spatial Analyses

Review meeting

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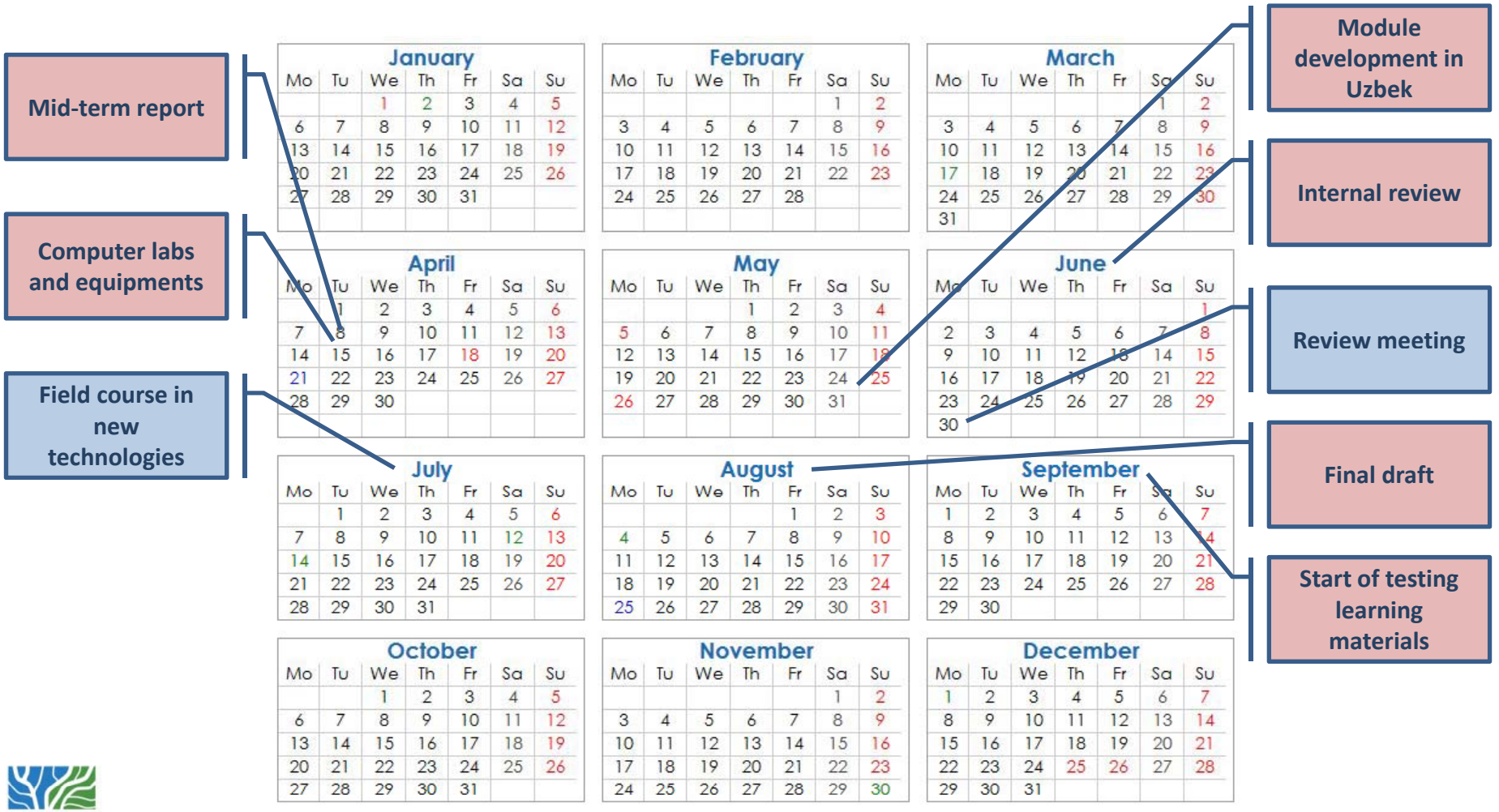
Next event

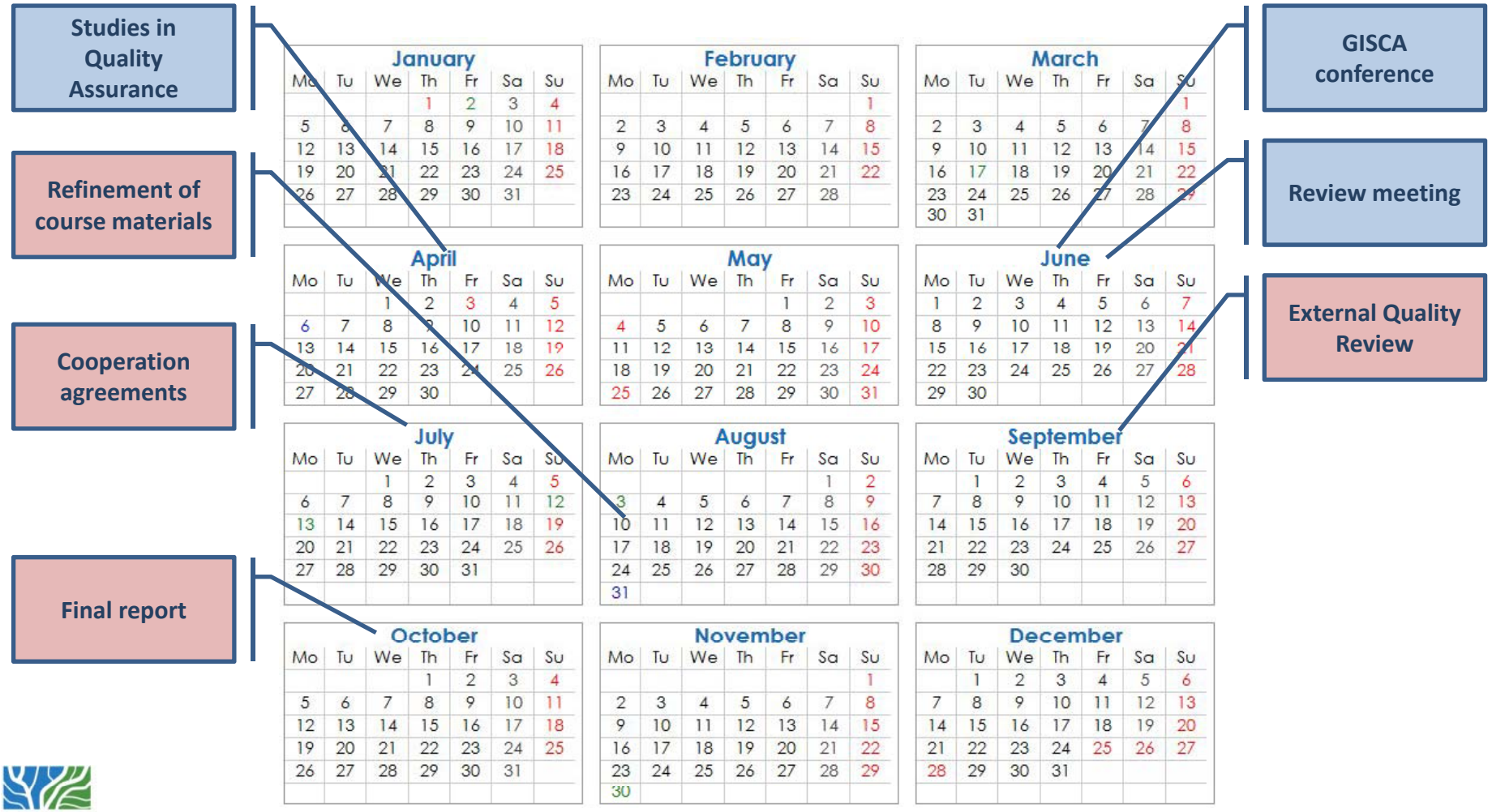
Workshop on educational methods and ICT (17-21 June 2013)

1. Learning material development (Guidelines from curriculum to textbooks)
2. Learning Management System (Moodle) - Social media
3. Teaching / learning environment (Specification of computer labs, equipments)
4. Course delivery / sustainability - Business plan, Recruitment, Entry requirements
5. Quality issues and Bologna tools

Workplan 2014



Workplan 2015



www.ge-uz.eu

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