

EVLM – European Virtual Laboratory of Mathematics
Leonardo da Vinci Programme, Project No SK/06/B/F/PP-177436

WORKPLAN

a) List of Workpackages

Work-package	Timetable	Months	Responsible Partners	Results, Outcomes
WP1 Organisation and management planning Competence enhancement	X – XI 2006	2	P1, P9 - English websites, P2 - P8 - national versions	Project website design 1M. Kick-off meeting – P1
WP2	X – XII 2006	3	all	EVLM portal design
WP3	I – III 2007	3	P1, P3, P8, P9	Database system development 2M. Database meeting – P9
WP4	IV – VI 2007	3	P1, P3, P8	Installation of servers
WP5	VI – VII 2007	2	P1, P3, P8, P9	Testing the functionality Database Operational manual
WP6	VII – IX 2007	3	all	Populating the Central / National Databases and their updates
WP7	X 2007	1	P1 - P7 all	Launching the National centres of Mathematics Production of dissemination booklets and information leaflets
WP8	I – IX 2007	9	P1, P4, P9	Translations Interim evaluation 3M. Dissemination meeting – P4
WP9	X – XII 2007	3	P1 - P7	Training tutorials for teachers
WP10	X– XII 2007	3	all	Teacher's guide – CD 4M. Workshop I – P2
WP11	X 2007 – IX 2008	12	P1 - P8	Assistance to students, expert consultancy
WP12	I – III 2008	3	all	Student's book – CD 5M. Workshop II – P7
WP13	VII 2007 - IX 2008	12	all	Database updates 6M. Valorisation meeting – P6
WP14	VI– IX 2008	6	all	Valorisation results , feedback analysis
WP15	IX 2008	1	P1, P6, P9	Overall evaluation 6M. Valorisation meeting – P6

b) List of activities and responsible partners

- | | |
|---|------------------|
| 1. Project website design (national versions) | P1, P9 (P2 – P8) |
| 2. EVLM portal design (national portals) | all |
| 3. Development of the central database system | P1, P3, P8 |

4. Installation of Servers – central, webMathematica – national	P1, P3 P2 – P8
5. Populating databases	all
6. Database Operational manual production	P1, P3, P8, P9
7. Testing functionality of the EVLM network	all
8. Launching of the National Centres of Mathematics	P1 – P7
9. Creating mathematical resources for the Databases	P1 – P7
10. Continuous update and maintenance of the Databases	all
11. Providing expert consultancy for target groups or individuals	P1 – P7, P9
12. Teacher's guide book CD production	all
13. Student's work book CD production	all
14. Feedback analysis and valorisation plan	P9
15. Evaluation of the project results	P1, P9
16. Production and dissemination of the leaflets, booklets	all

c) Plan of meetings

- 1. Kick-off meeting** coordinator P1, Work-package 1
SK (Bratislava), November 3 - 4, 2006

PROGRAMME: Organisation and management planning
Competence enhancement
Project website design
- 2. Database meeting – brainstorming** partner P9, Work-package 3
UK (Coventry), January 25 – 27, 2007

PROGRAMME: Discussion about the database contents
Visit to the working Math centre at Coventry University
Brainstorming and EVLM functionality planning
- 3. Dissemination meeting** partner P4, Work-package 8
ES (Salamanca), June 2007

PROGRAMME: Discussion about available e-learning materials
Dissemination strategies – national translations, reports on conferences, leaflets and booklets, posters, web forum
Valorisation keynotes and valorisation strategic plan, Interim reports
- 4. Workshop I** partner P2, Work-package 10
BG (Plovdiv), October 2007

PROGRAMME: Preparation of teacher's guide book
- 5. Workshop II** partner P7, Work-package 12
ER (Limerick), March 2008

PROGRAMME: Preparation of student's work book
- 6. Valorisation-Evaluation meeting** partner P6, Work-package 13
HU (Miskolc), June 2008

PROGRAMME: Project Dissemination, Promotion and Valorisation Plan results
Interim partner's reports, interim evaluation reports
- 7. Last meeting** partner P5, Work-package 14
FI (Tampere), September 2008

PROGRAMME: Overall evaluation of the project work and results
Planning of the further activities
EVLM functionality and extension

d) Calendar of deliverables

MONTH	DATE	TYPE	PARTNERS
3 rd	January 15, 2006	Project webpages	all
6 th	March 15, 2007	EVLM Portals	all
10 th	July 15, 2007	Database Operational Manual	P1, P3, P8, P9
11 th	August 15, 2007	Dissemination leaflets production	all
12 th	September 15, 2007	Collection of consultancy topics	all
13 th	October 15, 2007	Launching National Centres of Mathematics	P1 - P7
14 th	November, 2007	Overall report 1	P1, P9
15 th	December 15, 2007	Teacher's guide book CD	all
16 th	January 15, 2008	Electronic questionnaire forms for feedback	P9
		Information booklets production	all
17 th	February 15, 2008	Feedback collection from trained teachers	P1 – P7
18 th	March 15, 2008	Student's workbook CD	all
20 th	May 15, 2008	Feedback analysis 1	P9
21 st	June 15, 2008	Feedback collection from students	P1 – P7, P9
23 rd	August 15, 2008	Feedback analysis 2	P9
24 th	September 15, 2008	Updated list of consultancy topics in the databases	all
25 th	October 2008	Final report	P1, P9

e) Agreement

1. Learning outcomes for mathematical courses in engineering education are clearly described in the material developed by the SEFI Mathematics Working Group
Core Curriculum, Mathematics for the European Engineer – a curriculum for the twenty-first century, 2002 which is available at the SEFI MWG homepage - <http://learn.lboro.ac.uk/mwg/core.html>
All e-learning materials and consultation topics stored in the project database will be developed with the aim of meeting the main ideas of the cited document, and therefore these will be relevant to meeting the needs of target groups.
2. Results of the previous projects, in which partners were involved, will be summarised and the EVLM portals will be linked to existing free-ware products.
Currently available materials include the following:
Pilot course – Differentiation and Integral Calculus, results from the Xmath project, in English
Geometry in plane – e-learning modules, results from the dMath project, in English
Numerical methods – e-learning modules, results from the dMath project, in English
Ordinary differential equations – e-learning modules, results from the dMath project, in English
MathCentre – e-learning materials, in English
3. Special electronic questionnaire forms will be developed and attached to the project official webpage. These forms will be used to receive feedback from EVLM database users (responsible partner P9. The answers will be analysed and the results of the analysis will be incorporated in further work on the project aims. In the attached table of deliverables, dates for feedback from each of the partners are specified.
4. Materials stored in the database and presented on the web will be available free for educational purposes to all participating institutions, in accordance with the basic human right of free information, access to knowledge and education. EVLM partner institutions will guarantee quality and original authorship of the materials by including names of the authors and institutions of origin.
5. EVLM portals and webpages, National Centres of Mathematics and databases will be maintained by partner institutions after the end of the project, for at least 5 years. Possibilities of partial commercialisation and paid access to the developed and populated databases will be discussed during the project lifetime. A survey will be carried out in order to on EVLM national portal establish potential interest among European universities and educational institutions during partner participation at conferences on mathematics education. All information gathered will be analysed and relevant results will be adopted.

in Bratislava, November 20, 2006, signed by the contact persons:

Contractor – Partner 1, Slovak University of Technology in Bratislava, SR:

Partner 2, Plovdivski Universitet Paisii Hilendarski, BG:

Partner 3, Západočeská univerzita, Plzeň, ČR:

Partner 4, Universidad de Salamanca, ES:

Partner 5, Tilosilos Ltd., FI:

Partner 6, Miskolci Egyetem, HU:

Partner 7, University of Limerick, IE:

Partner 8, Slovenská spoločnosť pre Geometriu a Grafiku, SR:

Partner 9, Coventry University, Faculty of Engineering and Computing, UK: